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NCS

Reference Material (2016–2017)



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Introduction

National Analysis Centre for Iron and Steel (NACIS) is a research and development centre of analysis & test technology for iron and steel. It is an arbitration centre of material analysis, a promoting and training centre for new analysis technology. NACIS is responsible for management of national chemical standard analysis methods of iron, steel, alloy in P. R China.

Based on China Iron and Steel Research Institute group, The largest Institute in China, NACIS has advanced equipment and technology for analysis inspection.

NACIS has a long history in research of a wide variety of reference materials and production of metal, alloy, ore, ferrous alloy CRMs etc.. NACIS which is the earliest CRM producer in China from 1952 is a comprehensive unit for CRM production, accreditation and sales. NACIS has enough qualified staffs for CRM production and quality control.

From 1980, NACIS entered the international CRM market and up to now has distributors in more than 20 countries like Japan, Germany, United States, Sweden etc.. In national CRMs market, NACIS holds the largest market share and has 35 distributors.

The CRMs in this catalog are the CRMs from many producers under NACIS accreditation. You can also get CRMs which are available in China from NACIS even not listed in this catalog.

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Section 1 Iron, Steel & Alloy(Chip)

1)Pure Iron, Pig Iron, Cast Iron

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
|---------------|--------------------------------|-------------------------------|--------|--------|--------|--------|--------|-----------------|--------|-----------------|----------|-------|---------------------|--------|---------------------|--|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | Mo | Co | | |
| NCS HC 11001 | High Pure Iron | 0.0016 | 0.001 | 0.0063 | 0.0064 | 0.0053 | 0.0032 | 0.012 | 0.0044 | | | | 0.0026 | 0.0063 | 100 | |
| NCS HC 11001a | High Pure Iron | 0.0019 | 0.0011 | 0.0046 | 0.0064 | 0.0053 | 0.005 | 0.015 | 0.0051 | | | | | 0.009 | 100 | |
| NCS HC 11003 | Cast Iron | 3.77 | 1.47 | 0.659 | 0.230 | 0.129 | | | | | | | | | 100 | |
| NCS HC 11003a | Cast Iron | 3.36 | 1.39 | 0.561 | 0.166 | 0.176 | | | | | | | | | 100 | |
| NCS HC 11003b | Cast Iron | 3.36 | 1.82 | 0.386 | 0.135 | 0.154 | | | | | | | | | 100 | |
| NCS HC 11004 | Cast Iron | 2.72 | 2.56 | 0.359 | 0.124 | 0.115 | | | | | | | | | 100 | |
| NCS HC 11005 | Cast Iron | 2.19 | 3.07 | 0.219 | 0.047 | 0.048 | | | | | | | | | 100 | |
| NCS HC 11006 | Cast Iron | 3.11 | 1.37 | 0.850 | 0.270 | 0.130 | | | | | | | | | 100 | |
| NCS HC 11007 | Pig Iron | 2.70 | 1.72 | 1.66 | 0.201 | 0.102 | 0.589 | | 0.031 | | 0.0067 | 0.014 | | | 100 | |
| NCS HC 11008 | Pig Iron | 1.90 | 2.72 | 1.96 | 0.060 | 0.097 | 0.766 | | 0.041 | | 0.0075 | 0.013 | | | 100 | |
| NCS HC 11009 | Pig Iron | 3.26 | 1.18 | 1.98 | 0.385 | 0.081 | 0.373 | | 0.020 | | 0.0074 | 0.024 | | | 100 | |
| NCS HC 11012 | High Chromium Cast Iron | 1.95 | 0.59 | 0.926 | 0.0084 | 0.0079 | 13.11 | | | | 0.137 | 0.064 | 0.52 | | 100 | |
| NCS HC 11013 | High Chromium Cast Iron | 2.35 | 1.05 | 1.05 | 0.010 | 0.0094 | 15.06 | | | | 0.16 | 0.062 | 2.84 | | 100 | |
| | | N | | | | | | | | | | | | | | |
| NCS HC 11001 | High Pure Iron | 0.0074 | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | B | Ti | Co | V | W | | |
| NCS HC 11015 | Rare Earth Magnesium Cast Iron | 2.74 | 2.32 | 0.473 | 0.022 | 0.0009 | 0.040 | 0.627 | 0.031 | 0.0030 | 0.015 | 0.011 | 0.031 | 0.0032 | 80 | |
| | | Mo | Mg | Sn | N | La | Ce | Al _s | As | R _e | Sb | | | | | |
| | | 0.0016 | 0.012 | 0.0037 | 0.0047 | 0.013 | 0.019 | 0.021 | 0.011 | 0.036 | (0.0005) | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | Mo | | | | |
| NCS HC 13004 | High Chromium Cast Iron | 2.46 | 0.320 | 1.63 | 0.383 | 0.012 | 12.95 | 0.122 | 0.73 | 0.026 | 0.0092 | 0.76 | 100 | | | |
| NCS HC 13005 | High Chromium Cast Iron | 2.86 | 0.365 | 1.07 | 0.058 | 0.028 | 22.53 | 0.250 | 0.42 | 0.039 | 0.005 | 1.14 | 100 | | | |
| NCS HC 13006 | High Chromium Cast Iron | 2.31 | 0.59 | 0.828 | 0.064 | 0.043 | 26.48 | 0.49 | 0.355 | 0.040 | 0.0053 | 2.70 | 100 | | | |
| NCS HC 13007 | Alloy Cast Iron | 3.95 | 1.30 | 0.271 | 0.129 | 0.233 | 4.31 | 0.029 | 0.011 | 0.012 | 0.016 | 0.36 | 100 | | | |
| NCS HC 13008 | Alloy Cast Iron | 3.46 | 3.15 | 1.05 | 0.252 | 0.062 | 0.202 | 0.132 | 0.263 | 0.0070 | 0.047 | 0.047 | 100 | | | |
| NCS HC 13010 | Alloy Cast Iron | 3.35 | 2.44 | 0.699 | 0.147 | 0.045 | 0.96 | 0.300 | 0.018 | | | 2.39 | 100 | | | |
| NCS HC 13011 | Alloy Cast Iron | 3.23 | 4.30 | 1.20 | 0.310 | 0.045 | 1.36 | 0.919 | 0.243 | | | 0.639 | 100 | | | |
| NCS HC 13013 | Iron Powder | 0.0041 | 0.018 | 0.126 | 0.0085 | 0.021 | | | | | | | 150 | | | |
| NCS HC 13015 | Pig Iron | 2.51 | 4.08 | 0.62 | 0.104 | 0.020 | | | | | | | 150 | | | |
| NCS HC 13016 | Pig Iron | 2.99 | 1.29 | 1.30 | 0.278 | 0.100 | | | | | | | 150 | | | |
| NCS HC 13020 | Pig Iron | 2.72 | 1.32 | 0.508 | 0.105 | 0.024 | | | | | | | 100 | | | |
| NCS HC 13021 | Pig Iron | 2.52 | 1.41 | 1.46 | 0.273 | 0.060 | | | | | | | 100 | | | |
| NCS HC 13022 | Pig Iron | 2.85 | 3.02 | 0.821 | 0.071 | 0.027 | | | | | | | 100 | | | |
| NCS HC 13024 | Pig Iron | 1.88 | 4.13 | 0.472 | 0.160 | 0.034 | | | | | | | 100 | | | |
| NCS HC 13025 | Pig Iron | 2.51 | 2.28 | 0.301 | 0.087 | 0.081 | | | | | | | 100 | | | |
| NCS HC 13026 | Cast Iron | 1.28 | 0.644 | 0.741 | 0.0285 | 0.0054 | 21.12 | 1.12 | 0.044 | 0.287 | 0.060 | 0.335 | 100 | | | |
| NCS HC 13027 | Cast Iron | 1.34 | 0.843 | 0.969 | 0.0310 | 0.0035 | 22.40 | 1.60 | 0.028 | 0.035 | 0.106 | 0.546 | 100 | | | |
| NCS HC 13028 | Cast Iron | 1.58 | 1.11 | 1.37 | 0.032 | 0.0038 | 24.73 | 2.07 | 0.0290 | 0.032 | 0.184 | 0.842 | 100 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al _s | V | Ti | | Mo | Co | |
| NCS HC 14003 | Pig Iron | 2.03 | 1.50 | 0.402 | 0.077 | 0.042 | | | 0.085 | | | | | 100 | | |

Section 1 Iron, Steel & Alloy(Chip)

1)Pure Iron, Pig Iron, Cast Iron

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
|---------------|-----------------------------|-------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|---------------------|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | Mo | Co | | |
| NCS HC 15002g | Pure Iron | 0.0013 | 0.0014 | 0.00018 | (0.0001) | 0.001 | 0.00019 | 0.0052 | 0.00024 | 0.00065 | (0.0001) | (0.0001) | 0.0033 | (0.0001) | 15 | |
| NCS HC 15004 | Pure Iron | 0.0272 | 0.0994 | 0.246 | 0.0094 | 0.012 | 0.013 | 0.0202 | 0.031 | 0.37 | | | | | 100 | |
| NCS HC 15006 | Pure Iron | 0.080 | 0.171 | 0.043 | 0.0159 | 0.0075 | 0.043 | 0.147 | 0.135 | 0.088 | | | | | 100 | |
| NCS HC 15007 | Pure Iron | 0.091 | 0.341 | 0.399 | 0.0246 | 0.017 | 0.148 | 0.243 | 0.201 | 0.180 | | | | | 100 | |
| NCS HC 15011 | Pig Iron | 2.58 | 2.76 | 1.00 | 0.087 | 0.068 | | | | | N | | | | 100 | |
| NCS HC 15003a | Pure Iron | 0.012 | 0.017 | 0.034 | 0.0019 | 0.020 | 0.016 | 0.030 | 0.021 | 0.060 | 0.015 | | | | 100 | |
| NCS HC 15004a | Pure Iron | 0.027 | 0.018 | 0.195 | 0.014 | 0.0063 | 0.048 | 0.116 | 0.089 | 0.290 | 0.016 | | | | 100 | |
| NCS HC 15005a | Pure Iron | 0.030 | 0.182 | 0.106 | 0.0061 | 0.025 | 0.147 | 0.162 | 0.123 | 0.205 | 0.011 | | | | 100 | |
| NCS HC 15006a | Pure Iron | 0.061 | 0.341 | 0.254 | 0.021 | 0.0058 | 0.114 | 0.182 | 0.168 | 0.412 | 0.012 | | | | 100 | |
| NCS HC 15007a | Pure Iron | 0.080 | 0.506 | 0.358 | 0.036 | 0.031 | 0.170 | 0.203 | 0.254 | 0.432 | 0.018 | | | | 100 | |
| NCS HC 15014 | Pure Iron(DT ₄) | 0.0208 | 0.0922 | 0.246 | 0.0121 | 0.007 | 0.013 | 0.0202 | 0.020 | 0.046 | | | | | 100 | |
| | | Chemical Composition(Percent) | | | | | | | | | | | | | | |
| | | Ca | Mg | Cd | Zn | As | Sb | Bi | Sn | Pb | | | | | | |
| NCS HC 15002g | Pure Iron | 0.0017 | 0.00022 | (0.0001) | (0.0001) | (0.0001) | (0.0001) | (0.0001) | (0.0001) | (0.0001) | | | | | | |
| NCS HC 15014 | Pure Iron(DT ₄) | | | | | 0.0002 | 0.0005 | | 0.0012 | 0.000085 | | | | | | |
| | | Chemical Composition(Percent) | | | | | | | | | | | | | | |
| | | C | Si | Mn | P | S | Cu | Cr | Ni | Al | N | | | | | |
| NCS HC 15015 | Pure Iron | 0.017 | 0.214 | 0.151 | 0.01 | 0.0022 | 0.118 | 0.017 | 0.105 | 0.413 | 0.0064 | | | | 100 | |
| NCS HC 15016 | Pure Iron | 0.022 | 0.199 | 0.201 | 0.0072 | 0.0027 | 0.066 | 0.032 | 0.066 | 0.217 | 0.0123 | | | | 100 | |
| NCS HC 15017 | Pure Iron | 0.061 | 0.166 | 0.319 | 0.04 | 0.005 | 0.02 | 0.022 | 0.02 | 0.284 | 0.0146 | | | | 100 | |
| NCS HC 15018 | Pure Iron | 0.022 | 0.422 | 0.436 | 0.036 | 0.0032 | 0.2 | 0.205 | 0.323 | 0.515 | | | | | 100 | |
| | | Chemical Composition(Percent) | | | | | | | | | | | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Ti | Mo | Sn | As | Sb | Unit Size (in g) | |
| NCS HC 16003b | Pig Iron | 3.53 | 1.83 | 1.10 | 0.066 | 0.048 | | | 0.258 | 0.025 | | | | | 100 | |
| NCS HC 16006 | Pig Iron | 2.809 | 0.856 | 1.48 | 0.039 | 0.062 | | | 0.045 | 0.0118 | | | | | 100 | |
| NCS HC 16006b | Pig Iron | 2.71 | 1.14 | 0.98 | 0.077 | 0.089 | | | 0.036 | 0.007 | | | | | 100 | |
| NCS HC 16008 | Pig Iron | 3.58 | 1.59 | 1.66 | 0.039 | 0.044 | | | 0.024 | 0.030 | | | | | 100 | |
| NCS HC 16008b | Pig Iron | 3.45 | 1.44 | 1.84 | 0.046 | 0.018 | | | 0.015 | 0.019 | | | | | 100 | |
| NCS HC 16009 | Pig Iron | 2.202 | 0.378 | 0.528 | 0.0226 | 0.080 | | | 0.063 | 0.0094 | | | | | 100 | |
| NCS HC 16009b | Pig Iron | 2.31 | 2.28 | 0.509 | 0.025 | 0.100 | | | 0.038 | 0.030 | | | | | 100 | |
| NCS HC 16010b | Pig Iron | 3.90 | 0.93 | 0.414 | 0.044 | 0.044 | | | 0.010 | 0.001 | | | | | 100 | |
| NCS HC 16001b | Pig Iron | 3.04 | 1.34 | 1.22 | 0.072 | 0.052 | | | 0.025 | 0.008 | | | | | 100 | |
| NCS HC 16002b | Pig Iron | 2.38 | 0.48 | 0.700 | 0.082 | 0.034 | | | 0.026 | 0.006 | | | | | 100 | |
| NCS HC 16004b | Pig Iron | 3.39 | 3.41 | 0.94 | 0.113 | 0.016 | | | 0.202 | 0.058 | | | | | 100 | |
| NCS HC 16015 | Pig Iron | 3.51 | 2.31 | 0.882 | 0.083 | 0.025 | | | 0.308 | | | | | | 100 | |
| NCS HC 16016 | Pig Iron | 3.04 | 0.850 | 0.646 | 0.032 | 0.102 | | | | | | | | | 150 | |
| NCS HC 16022 | Pig Iron | 2.83 | 2.19 | 0.721 | 0.094 | 0.067 | | | | | | | | | 100 | |
| NCS HC 16023 | Pig Iron | 3.8 | 1.42 | 0.929 | 0.171 | 0.016 | | | | | | | | | 150 | |
| NCS HC 16024 | Pig Iron | 3.59 | 1.96 | 0.514 | 0.315 | 0.033 | | | | | | | | | 150 | |
| NCS HC 16025 | Pig Iron | 3.46 | 2.61 | 0.67 | 0.081 | 0.058 | | | | | | | | | 150 | |
| NCS HC 16026 | Pig Iron | 3.22 | 2.25 | 0.726 | 0.085 | 0.059 | | | | | | | | | 150 | |
| | | Chemical Composition(Percent) | | | | | | | | | | | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | Mo | Sn | Zn | Unit Size (in g) | |
| NCS HC 16027 | Pig Iron | 4.06 | 0.725 | 0.094 | 0.038 | 0.029 | 0.010 | 0.0023 | 0.0023 | 0.0064 | 0.026 | 0.0027 | 0.00014 | (0.0003) | 100 | |
| NCS HC 16028 | Pig Iron | 4.00 | 1.55 | 0.634 | 0.046 | 0.0073 | 0.036 | 0.0045 | 0.0051 | 0.018 | 0.084 | 0.0089 | 0.00018 | (0.0002) | 100 | |
| | | Pb | Bi | Sb | As | | | | | | | | | | | |
| NCS HC 16027 | Pig Iron | <0.0002 | <0.00005 | 0.00013 | 0.0011 | | | | | | | | | | | |
| NCS HC 16028 | Pig Iron | <0.0002 | <0.00005 | 0.00016 | 0.0012 | | | | | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

1)Pure Iron, Pig Iron, Cast Iron

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | |
|--------------|--------------------------|-------------------------------|--------|--------|-------|--------|--------|--------|-------|-------|-------|---------------------|-------|-----|---------------------|
| | | C | Si | Mn | P | S | As | RE | Mg | | | | | | |
| NCS HC 18002 | Cast Iron | 2.67 | 2.94 | 1.36 | 0.051 | 0.031 | | | | | | | | 150 | |
| NCS HC 18003 | Pig Iron | 3.18 | 1.43 | 0.0732 | 0.243 | 0.049 | 0.064 | | | | | | | 100 | |
| NCS HC 18004 | Pig Iron | 4.00 | 0.796 | 0.26 | 0.11 | 0.023 | 0.095 | | | | | | | 100 | |
| NCS HC 18005 | Pig Iron | 2.89 | 2.01 | 0.733 | 0.108 | 0.0058 | 0.091 | | | | | | | 100 | |
| NCS HC 18006 | Pig Iron | 2.65 | 1.99 | 0.75 | 0.114 | 0.0057 | 0.092 | | | | | | | 100 | |
| NCS HC 18007 | Pig Iron | 4.17 | 1.03 | 0.348 | 0.078 | 0.0233 | 0.017 | | | | | | | 100 | |
| NCS HC 18008 | Pig Iron | 4.13 | 1.02 | 0.348 | 0.078 | 0.023 | 0.016 | | | | | | | 100 | |
| NCS HC 18009 | Pig Iron | 3.83 | 1.88 | 0.74 | 0.186 | 0.023 | 0.025 | | | | | | | 100 | |
| NCS HC 18010 | Pig Iron | 3.66 | 2.40 | 0.59 | 0.145 | 0.041 | 0.036 | 0.024 | 0.030 | | | | | 100 | |
| NCS HC 18011 | Pig Iron | 3.43 | 1.93 | 0.729 | 0.079 | 0.0082 | 0.036 | | | | | | | 100 | |
| NCS HC 18012 | Pig Iron | 3.23 | 1.93 | 0.74 | 0.079 | 0.0080 | 0.037 | | | | | | | 100 | |
| NCS HC 18013 | Pig Iron | 3.40 | 2.12 | 0.79 | 0.049 | 0.0087 | 0.013 | | | | | | | 100 | |
| NCS HC 18014 | Pig Iron | 3.36 | 2.136 | 0.792 | 0.049 | 0.0087 | 0.012 | | | | | | | 100 | |
| NCS HC 18015 | Pig Iron | 4.01 | 1.09 | 0.908 | 0.136 | 0.046 | 0.039 | | | | | | | 100 | |
| NCS HC 18016 | Pig Iron | 3.20 | 2.91 | 0.42 | 0.104 | 0.0092 | 0.092 | | | | | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | Mo | Co | | |
| NCS HC 19002 | V Ti Pig Iron | 3.00 | 1.42 | 0.869 | 0.048 | 0.145 | 0.033 | 0.027 | 0.066 | 0.29 | 0.254 | | 0.033 | 100 | |
| NCS HC 19004 | V Ti Pig Iron | 2.38 | 2.12 | 1.28 | 0.069 | 0.0077 | 0.039 | 0.028 | 0.070 | 0.40 | 0.314 | | 0.034 | 100 | |
| NCS HC 19007 | Nodular Cast Iron | 2.855 | 2.615 | 0.977 | 0.050 | 0.021 | 0.0433 | 0.032 | 0.046 | 0.536 | 0.106 | | 0.036 | 100 | |
| NCS HC 19008 | Nodular Cast Iron | 2.486 | 2.529 | 0.734 | 0.080 | 0.015 | 0.0425 | 0.030 | 0.044 | 0.394 | 0.096 | | 0.035 | 100 | |
| NCS HC 19010 | V Ti RE Spherulitic Iron | 2.69 | 2.92 | 0.79 | 0.029 | 0.023 | 0.227 | 0.025 | 0.042 | 0.236 | 0.109 | 0.0016 | | 100 | |
| NCS HC 19016 | V Ti Pig Iron | 2.21 | 3.78 | 0.420 | 0.014 | 0.012 | 0.040 | 0.032 | 0.047 | 0.310 | 0.066 | | 0.037 | 100 | |
| NCS HC 19017 | V Ti Pig Iron | 2.77 | 2.52 | 0.570 | 0.015 | 0.014 | 0.042 | 0.031 | 0.046 | 0.356 | 0.072 | | 0.037 | 100 | |
| NCS HC 19018 | V Ti Pig Iron | 2.70 | 3.10 | 0.625 | 0.024 | 0.011 | 0.043 | 0.031 | 0.049 | 0.405 | 0.125 | | 0.035 | 100 | |
| Number | Name | Ca | Mg | RE | | | | | | | | | | | Unit Size (in g) |
| | | | | | | | | | | | | | | | |
| NCS HC 19002 | V Ti Pig Iron | 0.0079 | | | | | | | | | | | | | |
| NCS HC 19004 | V Ti Pig Iron | 0.0073 | | | | | | | | | | | | | |
| NCS HC 19007 | Nodular Cast Iron | | 0.036 | 0.040 | | | | | | | | | | | |
| NCS HC 19008 | Nodular Cast Iron | | 0.0106 | 0.0185 | | | | | | | | | | | |
| NCS HC 19010 | V Ti RE Spherulitic Iron | | 0.028 | 0.040 | | | | | | | | | | | |
| NCS HC 19016 | V Ti Pig Iron | | 0.090 | 0.099 | | | | | | | | | | | |
| NCS HC 19017 | V Ti Pig Iron | | 0.067 | 0.070 | | | | | | | | | | | |
| NCS HC 19018 | V Ti Pig Iron | | 0.071 | 0.083 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | Mo | Co | Sn | |
| NCS HC 28012 | Cast Iron | 3.06 | 1.36 | 0.77 | 0.071 | 0.094 | 0.0325 | 0.0415 | 0.068 | | 0.032 | | | 150 | |
| NCS HC 28013 | Cast Iron | 2.65 | 2.29 | 0.575 | 0.450 | 0.098 | 0.041 | 0.0675 | 0.086 | | 0.041 | | | 150 | |
| NCS HC 28014 | Cast Iron | 3.05 | 2.67 | 0.57 | 0.300 | 0.079 | 0.022 | 0.018 | 0.194 | | | | | 150 | |
| NCS HC 28015 | Cast Iron | 3.58 | 3.02 | 0.97 | 0.080 | 0.014 | 0.0075 | 0.0125 | 0.091 | | | | | 150 | |

Section 1 Iron, Steel & Alloy(Chip)

1)Pure Iron, Pig Iron, Cast Iron

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|--------------|-------------------------------------|-------------------------------|-------|-------|-------|--------|-------|-------|---------------------|-------|---------------------|---------------------|---------|-----|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | Mo | Sn | |
| NCS HC 28023 | High Phosphorus Cast Iron | 3.08 | 1.61 | 0.704 | 0.847 | 0.13 | 0.094 | | 0.294 | | | | | | 150 |
| NCS HC 28025 | High Phosphorus Cast Iron | 2.98 | 1.80 | 0.698 | 1.80 | 0.087 | 0.081 | | 0.201 | | | | | 150 | |
| NCS HC 28026 | High Phosphorus Cast Iron | 2.91 | 1.81 | 0.702 | 1.91 | 0.124 | 0.086 | | 0.245 | | | | | 150 | |
| NCS HC 28028 | Alloy Cast Iron | 3.11 | 1.71 | 0.605 | 0.250 | 0.088 | 0.280 | | 1.03 | | 0.023 | 0.0494 | | 150 | |
| NCS HC 28029 | Alloy Cast Iron | 2.84 | 1.91 | 0.85 | 0.086 | 0.0995 | 0.316 | | 0.865 | | 0.017 | 0.033 | | 150 | |
| NCS HC 28030 | Alloy Cast Iron | 3.23 | 1.28 | 0.736 | 0.109 | 0.124 | 0.12 | | 0.12 | | | | | 150 | |
| NCS HC 28031 | Alloy Cast Iron | 2.95 | 1.75 | 0.595 | 0.065 | 0.107 | 0.23 | | 0.642 | | | 0.030 | 0.155 | 150 | |
| NCS HC 28032 | Alloy Cast Iron | 3.19 | 1.295 | 0.955 | 0.107 | 0.108 | 0.54 | | 0.745 | | | 0.040 | 0.303 | 150 | |
| NCS HC 28034 | Alloy Cast Iron | 3.15 | 1.67 | 0.795 | 0.321 | 0.082 | 0.464 | | 1.04 | | | 0.053 | 0.515 | 150 | |
| NCS HC 28035 | Alloy Cast Iron | 3.15 | 1.44 | 0.685 | 0.49 | 0.076 | | | 0.915 | | | | | 150 | |
| NCS HC 28041 | Rare Earth Cast Iron | 1.59 | 2.13 | 0.44 | 0.067 | 0.004 | 0.052 | | 0.024 | | | | | 150 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | S | Si | Mn | P | Cr | Ni | Mo | Nb | Mg | Cu | ΣRE | Ce | |
| NCS HC 28054 | Alloy Cast Iron | 3.01 | 0.011 | 2.03 | 0.645 | 0.188 | 0.619 | 1.19 | 0.355 | 0.095 | 0.047 | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | | | | | |
| | | C | Si | Mn | P | S | Cu | | | | | | | | |
| NCS HC 30001 | Cast Iron | 2.26 | 2.21 | 1.28 | 0.178 | 0.025 | 1.01 | 50 | | | | | | | |
| NCS HC 30002 | Cast Iron | 3.12 | 0.96 | 0.687 | 0.100 | 0.023 | 0.29 | 50 | | | | | | | |
| NCS HC 30003 | Cast Iron | 2.62 | 1.64 | 1.68 | 0.120 | 0.032 | 0.52 | 50 | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | | | | | |
| NCS HC 37001 | High Chromium Cast Iron | 3.40 | 1.35 | 0.89 | 0.060 | 0.054 | 13.54 | 0.63 | 1.22 | 1.03 | 80 | | | | |
| NCS HC 37002 | High Chromium Cast Iron | 3.42 | 1.05 | 0.71 | 0.058 | 0.064 | 8.93 | 0.23 | 0.90 | 1.74 | 80 | | | | |
| NCS HC 37003 | High Chromium Cast Iron | 2.95 | 1.32 | 1.72 | 0.062 | 0.034 | 15.39 | 1.05 | 1.06 | 1.12 | 80 | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | Mg | R _e | Bi | | |
| NCS HC 37005 | R _e -Mg Spherulitic Iron | 1.92 | 3.36 | 0.955 | 0.041 | 0.0064 | | | 0.181 | 0.128 | 0.073 | 0.059 | | 80 | |
| NCS HC 37008 | R _e -Mg Spherulitic Iron | 2.59 | 3.08 | 0.373 | 0.042 | 0.012 | | | 0.288 | 0.514 | 0.014 | 0.011 | | 80 | |
| NCS HC 37010 | Cast Iron | 3.63 | 2.82 | 0.762 | 0.187 | 0.070 | | | | | | | | 80 | |
| NCS HC 37011 | Cast Iron | 3.73 | 2.58 | 0.565 | 0.117 | 0.067 | | | | | | | | 80 | |
| NCS HC 37012 | Cast Iron | 3.75 | 2.15 | 0.730 | 0.152 | 0.068 | | | | | | | | 80 | |
| NCS HC 37013 | Wrought Iron | 2.11 | 1.70 | 0.353 | 0.167 | 0.139 | 0.119 | | | | | | 0.0025 | 80 | |
| NCS HC 37014 | Wrought Iron | 2.25 | 1.03 | 0.537 | 0.241 | 0.088 | 0.163 | | | | | | 0.00093 | 80 | |
| NCS HC 37015 | High Chromium Cast Iron | 3.40 | 1.35 | 0.89 | 0.060 | 0.054 | 13.45 | 0.63 | 1.22 | 1.03 | | | | 80 | |
| NCS HC 37016 | High Chromium Cast Iron | 3.42 | 1.05 | 0.71 | 0.058 | 0.064 | 8.93 | 0.23 | 0.90 | 1.74 | | | | 80 | |
| NCS HC 37017 | High Chromium Cast Iron | 2.95 | 1.32 | 1.72 | 0.062 | 0.034 | 15.39 | 1.05 | 1.06 | 1.12 | | | | 80 | |
| NCS HC 37018 | Manganese Spherulitic Iron | 2.78 | 5.96 | 6.80 | 0.12 | 0.0027 | | | | | 0.049 | 0.041 | | 80 | |
| NCS HC 37019 | Manganese Spherulitic Iron | 3.06 | 5.80 | 6.72 | 0.11 | 0.0041 | | | | | 0.054 | 0.049 | | 80 | |
| NCS HC 37020 | Manganese Spherulitic Iron | 2.88 | 3.75 | 6.40 | 0.11 | 0.0035 | | | | | 0.068 | 0.047 | | 80 | |
| NCS HC 37021 | Manganese Spherulitic Iron | 2.79 | 6.58 | 8.77 | 0.10 | 0.0060 | | | | | 0.028 | 0.045 | | 80 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Co | | | | |
| NCS HC 28057 | Nickel-iron | 2.15 | 4.10 | 0.065 | 0.020 | 0.235 | 2.77 | 12.25 | 0.022 | 0.034 | 0.226 | | | 75 | |
| NCS HC 28058 | Nickel-iron | 2.87 | 2.07 | 0.072 | 0.110 | 1.00 | 1.68 | 10.19 | 0.033 | 0.027 | 0.236 | | | 75 | |
| NCS HC 28059 | Nickel-iron | 2.17 | 2.72 | 0.066 | 0.014 | 0.276 | 1.71 | 13.96 | 0.038 | 0.027 | 0.320 | | | 75 | |

Section 1 Iron, Steel & Alloy(Chip)

1)Pure Iron, Pig Iron, Cast Iron

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|--------------|-----------------|-------------------------------|-------|-------|-------|-------|-------|------|---------------------|------|----|----------------|--------|-----|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | Mg | R _e | Bi | | |
| NCS HC 37029 | Pig Iron | 2.15 | 2.69 | 1.08 | 0.451 | 0.068 | 0.221 | | 0.752 | | | | | | 100 |
| NCS HC 37030 | Pig Iron | 2.22 | 2.20 | 0.869 | 0.339 | 0.101 | 0.142 | | 0.501 | | | | | | 100 |
| NCS HC 37032 | Pig Iron | 2.28 | 1.34 | 0.358 | 0.086 | 0.161 | 0.028 | | 0.041 | | | | | | 100 |
| NCS HC 37033 | Pig Iron | 2.63 | 2.82 | 0.762 | 0.187 | 0.070 | | | | | | | | | 100 |
| NCS HC 37034 | Pig Iron | 3.73 | 2.58 | 0.565 | 0.117 | 0.067 | | | | | | | | | 100 |
| NCS HC 37035 | Pig Iron | 3.75 | 2.15 | 0.730 | 0.152 | 0.068 | | | | | | | | | 100 |
| NCS HC 37036 | Cast Iron | 1.67 | 1.90 | 1.05 | 0.085 | 0.024 | 0.055 | | | | | | 0.0034 | | 100 |
| NCS HC 37037 | Cast Iron | 1.90 | 2.34 | 0.780 | 0.110 | 0.055 | 0.024 | | | | | | 0.0038 | | 100 |
| NCS HC 37038 | Cast Iron | 2.01 | 1.44 | 0.677 | 0.057 | 0.115 | 0.113 | | | | | | 0.0015 | | 100 |
| NCS HC 37039 | Cast Iron | 2.04 | 3.37 | 1.34 | 0.479 | 0.038 | 0.197 | | 0.642 | | | | | | 100 |
| NCS HC 37040 | Cast Iron | 2.15 | 2.69 | 1.08 | 0.451 | 0.068 | 0.221 | | 0.752 | | | | | | 100 |
| NCS HC 37041 | Cast Iron | 2.22 | 2.20 | 0.869 | 0.339 | 0.101 | 0.142 | | 0.501 | | | | | | 100 |
| NCS HC 37042 | Cast Iron | 2.04 | 1.86 | 0.670 | 0.226 | 0.103 | 0.054 | | 0.176 | | | | | | 100 |
| NCS HC 37043 | Cast Iron | 2.28 | 1.34 | 0.358 | 0.086 | 0.161 | 0.028 | | 0.041 | | | | | | 100 |
| NCS HC 37051 | Cast Iron | 2.69 | 0.59 | 0.65 | 0.072 | 0.088 | 10.51 | 0.43 | 0.63 | 0.50 | | | | | 50 |
| | | V | Ti | | | | | | | | | | | | |
| NCS HC 37051 | Cast Iron | 0.56 | 0.013 | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | | | | | |
| | | C | Si | Mn | P | S | B | | | | | | | | |
| NCS HC 39001 | Cast Iron | 2.85 | 2.48 | 0.38 | 0.081 | 0.096 | | | | | | | | 100 | |
| NCS HC 39002 | Cast Iron | 2.81 | 1.71 | 0.57 | 0.062 | 0.134 | | | | | | | | 100 | |
| NCS HC 39003 | Cast Iron | 2.95 | 1.49 | 0.26 | 0.143 | 0.085 | | | | | | | | 100 | |
| NCS HC 39004 | Cast Iron | 2.78 | 2.17 | 0.78 | 0.066 | 0.082 | | | | | | | | 100 | |
| NCS HC 39005 | Cast Iron | 3.18 | 1.57 | 0.76 | 0.122 | 0.073 | | | | | | | | 100 | |
| NCS HC 39008 | Cast Iron | 2.59 | 2.17 | 0.859 | 0.187 | 0.093 | | | | | | | | 100 | |
| NCS HC 39009 | Cast Iron | 2.47 | 3.33 | 1.56 | 0.318 | 0.057 | | | | | | | | 100 | |
| NCS HC 39010 | Cast Iron | 2.65 | 1.29 | 0.331 | 0.113 | 0.134 | | | | | | | | 100 | |
| NCS HC 39011 | Boron Cast Iron | 2.96 | 1.67 | 0.57 | 0.082 | 0.058 | 0.061 | | | | | | | 100 | |
| NCS HC 39012 | Boron Cast Iron | 3.03 | 2.08 | 0.68 | 0.128 | 0.064 | 0.125 | | | | | | | 100 | |
| NCS HC 39013 | Boron Cast Iron | 2.86 | 2.35 | 0.56 | 0.106 | 0.052 | 0.101 | | | | | | | 100 | |

Section 1 Iron, Steel & Alloy(Chip)

1)Pure Iron, Pig Iron, Cast Iron

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|--------------|-----------------|-------------------------------|--------|--------|-------|-------|-------|---------------------|-------|-------|-------|-------|-------|---------------------|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | Mo | Sn | |
| NCS HC 41002 | DT4 | 0.023 | 0.075 | 0.178 | 0.016 | 0.009 | | | | 0.309 | | | | | 150 |
| NCS HC 41010 | Cast Iron | 2.64 | 1.49 | 0.540 | 0.089 | 0.029 | 0.086 | 0.030 | 0.056 | | 0.011 | 0.024 | 0.021 | | 150 |
| NCS HC 41011 | Cast Iron | 2.64 | 2.23 | 0.725 | 0.177 | 0.033 | 0.151 | 0.035 | 0.146 | | 0.014 | 0.031 | 0.105 | | 150 |
| NCS HC 41012 | Cast Iron | 2.52 | 3.86 | 1.24 | 0.635 | 0.032 | 0.115 | 0.037 | 0.114 | 0.017 | 0.033 | 0.071 | | 150 | |
| NCS HC 41013 | Cast Iron | 2.46 | 2.66 | 0.93 | 0.41 | 0.041 | 0.105 | 0.036 | 0.132 | 0.026 | 0.024 | 0.061 | | 150 | |
| | | As | Sb | Pb | Ali | | | | | | | | | | |
| NCS HC 41002 | DT4 | | | | 0.003 | | | | | | | | | | |
| NCS HC 41013 | Cast Iron | | 0.0011 | 0.0008 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (in g) | | | | | | | |
| | | C | Si | Mn | P | S | | | | | | | | | |
| NCS HC 93001 | pig iron | 4.01 | 1.49 | 1.15 | 0.097 | 0.069 | | 100 | | | | | | | |
| Numberw | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | |
| | | C | S | Si | Mu | P | Cr | Ni | Mo | Cu | Ti | ΣRe | V* | | |
| NCS HC 93002 | Alloy cast iron | 1.82 | 0.097 | 3.54 | 1.84 | 0.072 | 0.6 | 0.95 | 0.16 | 0.24 | 0.46 | 0.024 | 0.2 | 100 | |
| NCS HC 93003 | Alloy cast iron | 2.4 | 0.084 | 2.47 | 1.19 | 0.072 | 0.97 | 0.23 | 0.11 | 2.18 | 0.13 | 0.025 | 0.16 | 100 | |
| NCS HC 93004 | Alloy cast iron | 3.28 | 0.018 | 2 | 0.48 | 0.34 | 0.21 | 0.33 | 1.1 | 0.82 | 0.035 | 0.01 | 0.06 | 100 | |
| NCS HC 93005 | Alloy cast iron | 2.76 | 0.058 | 1.37 | 0.69 | 0.14 | 0.39 | 0.59 | 0.65 | 1.36 | 0.15 | 0.007 | 0.3 | 100 | |
| NCS HC 93006 | Alloy cast iron | 2.64 | 0.079 | 1.21 | 0.29 | 0.43 | 1.92 | 2.65 | 0.25 | 0.35 | 0.029 | 0.044 | 0.02 | 100 | |
| NCS HC 93007 | Alloy cast iron | 3.94 | 0.028 | 0.82 | 0.14 | 0.058 | 0.14 | 1.56 | 0.42 | 0.49 | 0.08 | 0.027 | 0.58 | 100 | |

Section 1 Iron, Steel & Alloy(Chip)

2)Non-Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | | |
|---------------|--------------------|-------------------------------|-------|-------|--------|--------|--------|--------|--------|----------|-------|---------------------|-----------------|-----------------|---------------------|--|-----|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | Al _i | Ti _i | | | |
| NCS HC 11101 | Carbon Steel,10 # | 0.127 | 0.219 | 0.481 | 0.017 | 0.024 | 0.0058 | 0.015 | 0.257 | | | | | | | | 150 |
| NCS HC 11102 | 60Mn | 0.56 | 0.72 | 0.69 | 0.016 | 0.004 | 0.102 | 0.60 | 0.041 | | | | | | | | 150 |
| NCS HC 11102a | 60Mn | 0.61 | 0.24 | 0.82 | 0.023 | 0.014 | 0.015 | 0.028 | 0.016 | | | | | | | | 150 |
| NCS HC 11103 | Carbon Steel | 0.183 | 0.277 | 0.622 | 0.029 | 0.011 | 0.028 | 0.033 | 0.185 | | | | | | | | 150 |
| NCS HC 11110 | Carbon Steel,25 # | 0.239 | 0.187 | 0.552 | 0.014 | 0.018 | 0.026 | 0.039 | 0.202 | | | | | | | | 150 |
| NCS HC 11110a | Carbon Steel,25 # | 0.242 | 0.260 | 0.506 | 0.014 | 0.023 | 0.078 | 0.048 | 0.119 | | | | | | | | 150 |
| NCS HC 11111 | Easy Cutting Steel | 0.188 | 0.114 | 0.64 | 0.015 | 0.119 | 0.016 | 0.037 | 0.031 | | | | | | | | 150 |
| NCS HC 11111a | Easy Cutting Steel | 0.72 | 0.22 | 0.37 | 0.13 | 0.13 | | | | | | | | | | | 150 |
| NCS HC 11111b | Easy Cutting Steel | 0.09 | 0.27 | 0.96 | 0.094 | 0.12 | 0.090 | 0.049 | 0.091 | | | | | | | | 150 |
| NCS HC 11112 | Carbon Steel,20 # | 0.183 | 0.105 | 0.632 | 0.007 | 0.016 | 0.172 | 0.108 | 0.106 | | | | | | | | 150 |
| NCS HC 11115 | Carbon Steel,15 # | 0.136 | 0.054 | 0.317 | 0.007 | 0.011 | 0.026 | 0.017 | 0.028 | | | | | | | | 150 |
| NCS HC 11116 | 15Mn | 0.156 | 0.277 | 0.879 | 0.015 | 0.0105 | 0.058 | 0.054 | 0.124 | | | | | | | | 150 |
| NCS HC 11118 | Carbon Steel | 0.23 | 0.25 | 0.55 | 0.026 | 0.0035 | | | | | | | | | | | 150 |
| NCS HC 11119 | 65Mn | 0.68 | 0.30 | 1.11 | 0.018 | 0.009 | 0.066 | 0.037 | 0.11 | | | | | | | | 150 |
| NCS HC 11120 | Carbon Steel,35 # | 0.338 | 0.262 | 0.555 | 0.016 | 0.014 | 0.155 | 0.072 | 0.140 | | | | | | | | 150 |
| NCS HC 11121 | 25MnSi | 0.234 | 0.508 | 1.33 | 0.021 | 0.029 | 0.056 | 0.046 | 0.067 | | | | | | | | 150 |
| NCS HC 11122 | 20MnSi | 0.201 | 0.748 | 1.32 | 0.026 | 0.027 | | | | | | | | | | | 150 |
| NCS HC 11124 | Carbon Steel | 0.109 | 0.520 | 0.750 | 0.034 | 0.010 | 0.206 | 0.121 | 0.243 | Als0.031 | 0.254 | Tis0.015 | 0.036 | 0.016 | | | 150 |
| NCS HC 11125 | Carbon Steel | 0.341 | 0.416 | 0.923 | 0.051 | 0.010 | 0.069 | 0.143 | 0.187 | Als0.067 | 0.136 | Tis0.054 | 0.072 | 0.055 | | | 150 |
| NCS HC 11126 | Carbon Steel | 0.664 | 0.164 | 1.25 | 0.071 | 0.028 | 0.073 | 0.240 | 0.142 | Als0.097 | 0.077 | Tis0.093 | 0.099 | 0.093 | | | 150 |
| NCS HC 11127 | Carbon Steel | 1.03 | 0.176 | 1.63 | 0.086 | 0.030 | 0.063 | 0.320 | 0.122 | Als0.171 | 0.031 | Tis0.154 | 0.174 | 0.156 | | | 150 |
| NCS HC 11128 | Carbon Steel | 1.23 | 0.805 | 1.87 | 0.093 | 0.032 | 0.321 | 0.445 | 0.082 | Als0.202 | 0.011 | Tis0.263 | 0.206 | 0.266 | | | 150 |
| NCS HC 11129 | Carbon Steel | 0.049 | 0.353 | 1.11 | 0.023 | 0.017 | 0.035 | 0.28 | 0.127 | 0.023 | 0.012 | 0.064 | | | | | 150 |
| NCS HC 11130 | Carbon Steel | 0.157 | 0.114 | 0.211 | 0.034 | 0.037 | 0.12 | 0.066 | 0.047 | 0.045 | 0.163 | 0.071 | | | | | 150 |
| NCS HC 11132 | Carbon Steel | 0.464 | 0.814 | 0.376 | 0.062 | 0.043 | 0.20 | 0.36 | 0.295 | 0.131 | 0.156 | 0.157 | | | | | 150 |
| NCS HC 11133 | Carbon Steel | 0.582 | 0.389 | 0.891 | 0.050 | 0.019 | 0.16 | 0.18 | 0.227 | 0.056 | 0.023 | 0.083 | | | | | 150 |
| NCS HC 11134 | Carbon Steel | 0.741 | 0.821 | 1.39 | 0.012 | 0.056 | 0.016 | 0.016 | 0.0154 | 0.0025 | 0.157 | 0.006 | | | | | 150 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | As | | | | | | | |
| NCS HC 13101 | Carbon Steel | 0.725 | 0.24 | 1.28 | 0.016 | 0.030 | | | | | | | | | | | 150 |
| NCS HC 13102 | Carbon Steel | 0.295 | 0.255 | 0.506 | 0.019 | 0.030 | 0.0062 | 0.0039 | 0.005 | | | | | | | | 100 |
| NCS HC 13103 | Carbon Steel | 0.409 | 0.261 | 0.629 | 0.0127 | 0.032 | 0.0076 | 0.0073 | 0.0087 | | | | | | | | 100 |
| NCS HC 13104 | Carbon Steel | 0.239 | 0.242 | 0.490 | 0.014 | 0.024 | 0.013 | 0.015 | 0.017 | | | | | | | | 100 |
| NCS HC 13105 | Carbon Steel | 0.153 | 0.222 | 0.457 | 0.0062 | 0.026 | 0.013 | 0.010 | 0.023 | | | | | | | | 100 |
| NCS HC 13106 | Carbon Steel | 0.480 | 0.271 | 0.653 | 0.016 | 0.028 | 0.0088 | 0.0055 | 0.0061 | | | | | | | | 100 |
| NCS HC 13107 | Carbon Steel,30 # | 0.30 | 0.26 | 0.51 | 0.019 | 0.030 | 0.0061 | 0.0038 | 0.0054 | | | | | | | | 100 |
| NCS HC 13108 | Carbon Steel,40 # | 0.41 | 0.26 | 0.63 | 0.013 | 0.032 | 0.0076 | 0.0074 | 0.0087 | | | | | | | | 100 |
| NCS HC 13109 | Carbon Steel,25 # | 0.24 | 0.24 | 0.49 | 0.014 | 0.024 | 0.013 | 0.015 | 0.017 | 0.0022 | | | | | | | 100 |
| NCS HC 13110 | Carbon Steel,15 # | 0.15 | 0.22 | 0.46 | 0.0062 | 0.026 | 0.013 | 0.010 | 0.023 | 0.0034 | | | | | | | 100 |
| NCS HC 13111 | Carbon Steel,60 # | 0.59 | 0.25 | 0.73 | 0.0098 | 0.025 | 0.014 | 0.008 | 0.015 | 0.0019 | | | | | | | 100 |
| NCS HC 13112 | Carbon Steel,50 # | 0.48 | 0.27 | 0.65 | 0.016 | 0.028 | 0.009 | 0.006 | 0.006 | 0.0011 | | | | | | | 100 |
| NCS HC 13113 | Carbon Steel,20 # | 0.22 | 0.23 | 0.45 | 0.015 | 0.030 | 0.027 | 0.020 | 0.017 | 0.003 | | | | | | | 100 |
| NCS HC 13114 | Carbon Steel,45 # | 0.47 | 0.26 | 0.70 | 0.019 | 0.030 | 0.008 | 0.004 | 0.006 | 0.005 | | | | | | | 100 |
| NCS HC 13116 | Carbon Steel | 0.42 | 0.36 | 1.11 | 0.084 | 0.049 | | | | | | | | | | | 100 |
| NCS HC 13118 | Carbon Steel | 0.72 | 0.66 | 0.56 | 0.063 | 0.010 | | | | | | | | | | | 100 |
| NCS HC 13121 | Carbon Steel | 0.33 | 0.62 | 0.41 | 0.036 | 0.012 | | | | | | | | | | | 100 |

Section 1 Iron, Steel & Alloy(Chip)

2)Non-Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | |
|--------------|------------------------|-------------------------------|-------|-------|--------|--------|---------------------|---------------------|---------------------|--------|--------|---------------------|---------------------|-----|---------------------|
| | | C | Si | Mn | P | S | Ni | Cr | Cu | As | Als | | | | |
| NCS HC 13122 | Carbon Steel | 0.29 | 1.43 | 1.16 | 0.017 | 0.012 | 0.008 | 0.015 | 0.006 | 0.0022 | 0.063 | 100 | | | |
| NCS HC 13124 | Carbon Steel | 0.60 | 0.31 | 0.89 | 0.018 | 0.017 | 0.007 | 0.013 | 0.006 | 0.0022 | 0.056 | 100 | | | |
| NCS HC 13125 | Carbon Steel | 0.68 | 0.36 | 0.61 | 0.017 | 0.014 | 0.004 | 0.012 | 0.005 | 0.0022 | 0.031 | 100 | | | |
| NCS HC 13126 | Carbon Steel | 0.71 | 0.30 | 1.02 | 0.020 | 0.017 | 0.005 | 0.013 | 0.006 | 0.0023 | 0.040 | 100 | | | |
| NCS HC 13127 | Carbon Steel | 0.71 | 0.33 | 1.29 | 0.019 | 0.010 | 0.007 | | | | | 100 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | | | | | | | |
| NCS HC 14101 | Carbon Steel | 0.090 | 0.154 | 0.403 | 0.0146 | 0.049 | 0.020 | 0.026 | | | | 100 | | | |
| NCS HC 14102 | Carbon Steel | 0.542 | 0.140 | 0.520 | 0.0205 | 0.022 | 0.237 | 0.031 | | | | 100 | | | |
| NCS HC 14103 | Carbon Steel | 0.343 | 0.305 | 0.696 | 0.0231 | 0.037 | 0.056 | 0.130 | | | | 100 | | | |
| NCS HC 14104 | Carbon Steel | 0.477 | 0.203 | 0.674 | 0.0244 | 0.031 | 0.0023 | 0.036 | | | | 100 | | | |
| NCS HC 14105 | Carbon Steel | 0.596 | 0.303 | 0.699 | 0.0193 | 0.0085 | 0.0052 | 0.026 | | | | 100 | | | |
| NCS HC 14106 | Carbon Steel | 0.205 | 0.346 | 0.291 | 0.0320 | 0.020 | 0.155 | 0.010 | | | | 100 | | | |
| NCS HC 14107 | Carbon Steel | 0.219 | 0.377 | 0.280 | 0.0405 | 0.111 | 0.182 | 0.022 | | | | 100 | | | |
| Numberw | Name | Chemical Composition(Percent) | | | | | | Unit Size (in g) | | | | | | | |
| | | C | Si | Mn | P | S | Cr | | Ni | Cu | | | | | |
| NCS HC 15101 | Carbon Steel | 0.118 | 0.252 | 0.483 | 0.0132 | 0.017 | 0.020 | 0.020 | 0.022 | | | 150 | | | |
| NCS HC 15103 | Carbon Steel | 0.454 | 0.283 | 0.636 | 0.0223 | 0.010 | 0.016 | 0.0083 | 0.009 | | | 150 | | | |
| NCS HC 15104 | Carbon Steel | 0.265 | 0.282 | 0.590 | 0.0066 | 0.016 | 0.016 | 0.028 | 0.012 | | | 100 | | | |
| NCS HC 15105 | Carbon Steel | 0.467 | 0.295 | 0.624 | 0.027 | 0.012 | | | | | | 100 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | Unit Size (in g) | | | | | | | | |
| | | C | Si | Mn | P | S | | | | | | | | | |
| NCS HC 16101 | Carbon Steel | 0.472 | 0.261 | 0.657 | 0.0136 | 0.012 | | | | | 150 | | | | |
| NCS HC 16102 | Carbon Steel | 0.206 | 0.238 | 0.551 | 0.0103 | 0.009 | | | | | 150 | | | | |
| NCS HC 16103 | Carbon Steel | 0.343 | 0.276 | 0.636 | 0.0144 | 0.010 | | | | | 150 | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | | Cu | | | | | |
| NCS HC 18101 | Carbon Steel | 0.168 | 0.318 | 0.605 | 0.028 | 0.019 | 0.315 | 0.275 | 0.308 | | | 150 | | | |
| NCS HC 18102 | Carbon Steel | 0.585 | 0.564 | 0.748 | 0.052 | 0.042 | 0.100 | 0.097 | 0.116 | | | 150 | | | |
| NCS HC 18103 | Carbon Steel | 0.474 | 0.269 | 0.658 | 0.023 | 0.024 | 0.246 | 0.181 | 0.175 | | | 150 | | | |
| NCS HC 18104 | Carbon Steel | 0.324 | 0.252 | 0.573 | 0.033 | 0.016 | 0.124 | 0.036 | 0.203 | | | 150 | | | |
| NCS HC 18105 | 20MnSi | 0.219 | 0.545 | 1.54 | 0.046 | 0.035 | 0.031 | 0.029 | 0.094 | | | 100 | | | |
| NCS HC 18106 | Q235 Steel | 0.203 | 0.254 | 0.418 | 0.011 | 0.022 | 0.033 | 0.022 | 0.078 | | | 100 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | Ti | Co | | | |
| NCS HC 19101 | Carbon Steel | 0.458 | 0.347 | 0.655 | 0.0195 | 0.016 | | | | | | | 100 | | |
| NCS HC 19102 | Carbon Structure Steel | 0.73 | 0.243 | 1.22 | 0.014 | 0.030 | 0.015 | 0.029 | 0.078 | 0.012 | 0.0034 | 0.038 | 100 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | | Cu | | | | | |
| NCS HC 20104 | Carbon Steel | 0.181 | 0.294 | 0.147 | 0.0084 | 0.060 | 0.290 | 0.107 | 0.083 | | | 100 | | | |
| NCS HC 20106 | Carbon Steel | 0.341 | 0.194 | 0.585 | 0.012 | 0.028 | 0.220 | 0.055 | 0.209 | | | 100 | | | |
| NCS HC 20108 | Carbon Steel | 0.303 | 0.323 | 0.649 | 0.022 | 0.012 | 0.059 | 0.033 | 0.114 | | | 100 | | | |
| NCS HC 20112 | Carbon Steel | 0.484 | 0.297 | 0.611 | 0.022 | 0.0082 | 0.052 | 0.0451 | 0.088 | | | 100 | | | |
| NCS HC 20113 | 20MnSi | 0.199 | 0.595 | 1.46 | 0.024 | | 0.143 | 0.079 | 0.157 | | | 100 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | W | Mo | Sn | | |
| NCS HC 21101 | Carbon Steel | 0.113 | 0.239 | 0.452 | 0.011 | 0.012 | 0.027 | 0.026 | 0.079 | | | | | 100 | |
| NCS HC 21102 | Carbon Steel | 0.228 | 0.279 | 0.516 | 0.020 | 0.021 | 0.071 | 0.029 | 0.080 | | | | | 100 | |
| NCS HC 21103 | Carbon Steel | 0.449 | 0.317 | 0.660 | 0.019 | 0.014 | 0.066 | 0.033 | 0.088 | 0.012 | 0.0055 | 0.0093 | 0.0114 | 100 | |
| NCS HC 21104 | 20MnSi | 0.205 | 0.759 | 1.376 | 0.0225 | 0.0268 | 0.108 | 0.096 | 0.121 | | 0.033 | 0.036 | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | | Ti | | |
| NCS HC 22101 | Carbon Steel | 0.091 | 0.266 | 0.569 | 0.0123 | 0.031 | 0.093 | 0.241 | 0.196 | 0.095 | 0.011 | 0.0098 | 150 | | |
| NCS HC 22102 | Carbon Steel | 0.188 | 0.150 | 0.461 | 0.0269 | 0.052 | 0.128 | 0.175 | 0.268 | 0.048 | 0.0048 | 0.028 | 150 | | |
| NCS HC 22103 | Carbon Steel | 0.338 | 0.475 | 0.856 | 0.038 | 0.012 | 0.270 | 0.042 | 0.053 | 0.0079 | 0.0026 | 0.0030 | 150 | | |

Section 1 Iron, Steel & Alloy(Chip)

2)Non-Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
|---------------|-------------------------|-------------------------------|---------|----------|----------|--------|--------|--------|--------|---------------------|---|-------|--------|--------|---------------------|-----|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Mo | Co | Sn | | |
| NCS HC 28101 | Carbon Steel | 0.102 | 0.228 | 0.550 | 0.0170 | 0.017 | 0.035 | 0.026 | 0.034 | 0.017 | | | 0.0059 | 0.0058 | 0.0030 | 100 |
| NCS HC 28104 | Carbon Steel | 0.327 | 0.300 | 0.511 | 0.0214 | 0.023 | 0.024 | 0.036 | 0.212 | 0.051 | | | 0.0060 | 0.0011 | 0.049 | 100 |
| NCS HC 28106 | Carbon Steel | 0.736 | 0.292 | 0.673 | 0.0320 | 0.019 | 0.0064 | 0.010 | 0.028 | 0.036 | | | 0.0031 | 0.0076 | 0.0013 | 100 |
| NCS HC 28107 | Carbon Steel | 0.523 | 0.287 | 0.726 | 0.0101 | 0.017 | 0.026 | 0.022 | 0.030 | 0.021 | | | 0.0025 | 0.0077 | 0.00085 | 100 |
| NCS HC 28108 | Carbon Steel | 0.090 | 0.153 | 0.600 | 0.0165 | 0.025 | 0.0125 | 0.0090 | 0.021 | | | | | | | 100 |
| NCS HC 28110 | Carbon Steel | 0.204 | 0.253 | 0.441 | 0.028 | 0.025 | 0.012 | 0.0059 | 0.0215 | | | | | | | 100 |
| NCS HC 28112 | Carbon Steel | 0.302 | 0.206 | 0.503 | 0.0350 | 0.0165 | 0.011 | 0.0078 | 0.028 | | | | | | | 100 |
| NCS HC 28113 | Carbon Steel | 0.463 | 0.262 | 0.638 | 0.0195 | 0.020 | 0.070 | 0.039 | 0.115 | | | | | | | 100 |
| NCS HC 28114a | Carbon Steel | 0.736 | 0.297 | 0.67 | 0.032 | 0.019 | 0.0065 | 0.010 | 0.028 | | | | | | | 100 |
| NCS HC 28115 | 15Mn | 0.127 | 0.262 | 0.779 | 0.255 | 0.0315 | 0.0105 | 0.010 | 0.0145 | | | | | | | 100 |
| NCS HC 28116 | 15Mn | 0.157 | 0.351 | 0.854 | 0.018 | 0.024 | 0.019 | 0.0081 | 0.016 | | | | | | | 100 |
| NCS HC 28117 | 20Mn | 0.190 | 0.273 | 0.810 | 0.034 | 0.0300 | 0.014 | 0.010 | 0.018 | | | | | | | 100 |
| NCS HC 28118 | 70Mn | 0.722 | 0.564 | 1.10 | 0.041 | 0.0255 | 0.202 | 0.096 | 0.109 | | | | | | | 100 |
| NCS HC 28119 | Carbon Steel | 0.620 | 0.408 | 0.749 | 0.031 | 0.0255 | 0.333 | 0.227 | 0.127 | | | | | | | 100 |
| NCS HC 28121 | 45Mn | 0.422 | 0.298 | 1.631 | 0.015 | 0.017 | 0.0115 | 0.021 | 0.014 | | | | | | | 100 |
| NCS HC 28122 | Carbon Steel | 0.263 | 0.065 | 0.778 | 0.0265 | 0.0499 | 0.024 | 0.030 | 0.150 | | | 0.097 | | | | 150 |
| NCS HC 28123 | Carbon Steel | 0.152 | 0.175 | 0.491 | 0.019 | 0.0199 | 0.027 | 0.030 | 0.108 | | | 0.028 | | | | 150 |
| NCS HC 28125 | Carbon Steel | 0.327 | 0.304 | 0.515 | 0.0079 | 0.026 | 0.168 | 0.130 | 0.255 | | | 0.022 | | | | 150 |
| NCS HC 28126 | Carbon Steel | 0.670 | 0.417 | 0.978 | 0.0486 | 0.040 | 0.0385 | 0.019 | 0.102 | | | 0.158 | | | | 150 |
| NCS HC 28127 | Carbon Steel | 0.167 | 0.475 | 1.00 | 0.0208 | 0.0182 | 0.018 | 0.023 | 0.029 | | | 0.568 | | | | 150 |
| NCS HC 28128 | Ship Construction Steel | 0.157 | 0.351 | 0.854 | 0.018 | 0.024 | 0.019 | 0.0081 | 0.016 | | | | | | | 100 |
| NCS HC 28129 | Ship Construction Steel | 0.190 | 0.273 | 0.810 | 0.034 | 0.030 | 0.014 | 0.010 | 0.018 | | | | | | | 100 |
| | | As | Sb | Pb | Bi | | | | | | | | | | | |
| NCS HC 28101 | Carbon Steel | 0.0066 | 0.0010 | 0.00020 | <0.00001 | | | | | | | | | | | |
| NCS HC 28104 | Carbon Steel | 0.010 | 0.012 | 0.00062 | <0.00001 | | | | | | | | | | | |
| NCS HC 28106 | Carbon Steel | 0.0094 | 0.0010 | 0.00062 | <0.00001 | | | | | | | | | | | |
| NCS HC 28107 | Carbon Steel | 0.0030 | 0.00061 | 0.000027 | <0.00001 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (in g) | | | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | | | | | | | |
| NCS HC 31103 | Carbon Steel | 0.274 | 0.300 | 0.580 | 0.014 | 0.0064 | 0.08 | 0.056 | 0.082 | 100 | | | | | | |
| NCS HC 31109 | Carbon Steel | 0.683 | 0.432 | 0.971 | 0.0452 | 0.0163 | 0.288 | 0.450 | 0.098 | 100 | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (in g) | | | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | | | | | | | |
| NCS HC 37101 | Carbon Steel | 0.518 | 0.344 | 0.616 | 0.025 | 0.0063 | 0.050 | 0.040 | | 100 | | | | | | |
| NCS HC 37102 | Carbon Steel | 0.139 | 0.152 | 0.601 | 0.024 | 0.030 | 0.042 | 0.042 | 0.151 | 100 | | | | | | |
| NCS HC 37103 | Carbon Steel | 0.170 | 0.224 | 0.407 | 0.036 | 0.049 | 0.052 | 0.044 | 0.127 | 100 | | | | | | |
| NCS HC 37104 | Carbon Steel | 0.349 | 0.343 | 0.603 | 0.015 | 0.022 | 0.016 | 0.029 | 0.050 | 100 | | | | | | |
| NCS HC 37105 | Carbon Steel | 0.659 | 0.275 | 0.742 | 0.012 | 0.0074 | 0.017 | 0.056 | 0.113 | 100 | | | | | | |
| NCS HC 37106 | Carbon Steel | 0.168 | 0.270 | 0.510 | 0.013 | 0.027 | | | | 100 | | | | | | |
| NCS HC 37107 | Carbon Steel | 0.236 | 0.274 | 0.595 | 0.019 | 0.022 | | | | 100 | | | | | | |
| NCS HC 37108 | Carbon Steel | 0.168 | 0.270 | 0.510 | 0.013 | 0.027 | 0.222 | 0.052 | 0.118 | 100 | | | | | | |
| NCS HC 37109 | Carbon Steel | 0.308 | 0.232 | 0.517 | | | | | | 100 | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

2)Non-Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
|---------------|------------------------|-------------------------------|--------|-------|---------------|--------|--------|--------|---------------------|-------|---------|--------|--------|-------|-----|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | W | Mo | Co | | |
| NCS HC 41102 | Carbon Steel | 0.652 | 0.160 | 0.416 | 0.038 | 0.050 | 0.054 | 0.028 | 0.140 | 0.040 | 0.003 | | 0.007 | | 150 | |
| NCS HC 41104 | Carbon Steel | 0.854 | 0.34 | 1.07 | 0.068 | 0.295 | 0.018 | 0.025 | 0.040 | 0.040 | 0.0022 | | 0.0042 | 0.008 | 150 | |
| NCS HC 41107 | Carbon Steel | 0.316 | 0.069 | 1.18 | 0.0425 | 0.014 | 0.0195 | 0.035 | 0.052 | 0.760 | 0.0017 | | 0.0065 | 0.009 | 150 | |
| NCS HC 41109 | Carbon Steel | 0.064 | 0.601 | 0.246 | 0.0082 | 0.044 | 0.012 | 0.035 | 0.072 | 0.173 | 0.0012 | | 0.0061 | 0.009 | 150 | |
| NCS HC 41111b | Carbon Steel | 0.233 | 0.254 | 0.404 | 0.011 | 0.016 | 0.121 | 0.031 | 0.132 | | | | | | 100 | |
| NCS HC 41113 | Carbon Steel | 0.166 | 0.198 | 0.533 | 0.032 | 0.024 | 0.005 | 0.009 | 0.007 | | 0.0007 | 0.0042 | 0.0047 | | 150 | |
| NCS HC 41114 | Carbon Steel | 0.295 | 0.306 | 0.661 | 0.019 | 0.0127 | 0.042 | 0.024 | 0.089 | 0.059 | 0.001 | | | | 150 | |
| NCS HC 41116 | Carbon Steel | 0.354 | 0.305 | 0.608 | 0.021 | 0.0105 | 0.031 | 0.021 | 0.118 | 0.014 | 0.002 | | | | 150 | |
| NCS HC 41116c | Carbon Steel | 0.364 | 0.250 | 0.572 | 0.010 | 0.0089 | 0.038 | 0.048 | 0.110 | | | | | | 100 | |
| NCS HC 41117 | Carbon Steel | 0.433 | 0.226 | 0.631 | 0.016 | 0.0135 | 0.027 | 0.021 | 0.108 | 0.044 | 0.001 | | | | 150 | |
| NCS HC 41119 | Carbon Steel | 0.528 | 0.287 | 0.665 | 0.020 | 0.010 | 0.029 | 0.023 | 0.081 | | 0.002 | | | | 100 | |
| NCS HC 41120 | Carbon Steel | 0.202 | 0.293 | 0.452 | 0.012 | 0.0125 | 0.056 | 0.031 | 0.074 | | 0.002 | | | | 150 | |
| NCS HC 41121 | Carbon Steel | 0.092 | 0.125 | 0.315 | 0.015 | 0.041 | | | | | | | | | 150 | |
| NCS HC 41122 | Carbon Steel | 0.158 | 0.221 | 0.459 | 0.011 | 0.012 | | | | | | | | | 150 | |
| NCS HC 41123 | Carbon Steel | 0.083 | 0.107 | 0.275 | 0.0097 | 0.038 | 0.056 | 0.032 | 0.089 | | (0.001) | | | | 150 | |
| NCS HC 41124 | Carbon Steel | 0.178 | 0.311 | 0.420 | 0.018 | 0.0135 | 0.047 | 0.029 | 0.074 | | (0.003) | | | | 150 | |
| NCS HC 41125 | Carbon Steel | 0.811 | 0.582 | 1.11 | 0.066 | 0.011 | 0.060 | 0.260 | 0.292 | | (0.005) | | | | 150 | |
| NCS HC 41126 | Carbon Steel | 0.420 | 0.249 | 0.610 | 0.048 | 0.074 | 0.186 | 0.186 | 0.205 | | (0.003) | | | | 150 | |
| NCS HC 41127 | Carbon Steel | 0.647 | 0.471 | 0.839 | 0.047 | 0.042 | 0.335 | 0.363 | 0.361 | | (0.003) | | | | 150 | |
| NCS HC 41128 | Carbon Steel | 0.642 | 0.287 | 0.673 | 0.029 | 0.0042 | | | | | (0.003) | | | | 150 | |
| NCS HC 41129 | Carbon Steel | 0.587 | 0.265 | 0.641 | 0.018 | 0.011 | 0.022 | 0.021 | 0.087 | | 0.001 | | | | 150 | |
| NCS HC 41130 | Carbon Steel | 0.706 | 0.297 | 0.508 | 0.0195 | 0.010 | 0.063 | 0.053 | 0.078 | | 0.001 | | | | 150 | |
| NCS HC 41132 | 20Mn Si | 0.207 | 0.536 | 1.45 | 0.029 | 0.012 | 0.034 | 0.035 | 0.082 | | | | | | 150 | |
| NCS HC 41133 | 35Si Mn | 0.335 | 0.612 | 1.33 | 0.020 | 0.0085 | 0.032 | 0.030 | 0.068 | | 0.0020 | | | | 150 | |
| NCS HC 41134 | Carbon Steel | 0.112 | 0.367 | 0.644 | 0.033 | 0.017 | 0.426 | 0.033 | 0.030 | | | | | | 100 | |
| NCS HC 41135 | Carbon Steel | 0.437 | 0.612 | 0.533 | 0.031 | 0.033 | 0.189 | 0.229 | 0.185 | | | | | | 100 | |
| | | | Sn | As | Sb | Pb | Ns | Ali | Nt | | | | | | | |
| NCS HC 41102 | Carbon Steel | | | 0.015 | (<0.001) | | | 0.007 | | | | | | | | |
| NCS HC 41104 | Carbon Steel | 0.0054 | 0.0078 | | (<0.0001) | 0.0082 | 0.002 | 0.0086 | | | | | | | | |
| NCS HC 41107 | Carbon Steel | 0.0063 | 0.010 | | | | 0.0025 | | | | | | | | | |
| NCS HC 41109 | Carbon Steel | 0.0074 | 0.010 | | | | 0.002 | | | | | | | | | |
| NCS HC 41114 | Carbon Steel | | | | | | 0.0050 | | | | | | | | | |
| NCS HC 41116 | Carbon Steel | | | | | | 0.005 | | | | | | | | | |
| NCS HC 41117 | Carbon Steel | | | | | | 0.005 | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | | | | | | |
| | | C | Si | Mn | P | S | | | | | | | | | | |
| NCS HC 56101 | S,P Easy Cutting Steel | 0.132 | 0.167 | 0.475 | 0.152 | 0.057 | | 150 | | | | | | | | |
| NCS HC 56102 | S,P Easy Cutting Steel | 0.251 | 0.527 | 0.804 | 0.104 | 0.129 | | 150 | | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

3)Low Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
|---------------|----------------------------|-------------------------------|--------|-------|--------|--------|-------|-------|-------|----------------|-------|-------|-------|-------|-----|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 11201 | MoB | 0.24 | 0.63 | 0.17 | 0.010 | 0.005 | 0.073 | 0.034 | 0.052 | 0.65 | | | | | 150 | |
| NCS HC 11202 | 5CrNiMo | 0.58 | 0.34 | 0.80 | 0.031 | 0.004 | 0.54 | 1.71 | | | | | 0.29 | 150 | | |
| NCS HC 11203 | 4Cr ₃ SiMnWV | 0.45 | 1.07 | 1.54 | 0.036 | 0.004 | 2.78 | 0.10 | 0.20 | | 0.29 | | 0.95 | 150 | | |
| NCS HC 11204 | Cr ₂ SiMoTi | 0.14 | 1.33 | 0.48 | 0.021 | 0.006 | 2.17 | 0.24 | 0.18 | | | 0.19 | | 0.52 | 150 | |
| NCS HC 11205 | 38CrWVAI | 0.32 | 0.41 | 0.26 | 0.031 | 0.011 | 1.64 | 0.13 | 0.061 | 0.17 | 0.20 | | | | 150 | |
| NCS HC 11206 | 38CrMoAl | 0.42 | 0.48 | 0.68 | 0.069 | 0.005 | 1.67 | 0.28 | 0.055 | 0.77 | | | | 0.26 | 150 | |
| NCS HC 11207 | 30CrSiMoV | 0.34 | 0.90 | 0.70 | 0.016 | 0.004 | 1.16 | 0.34 | 0.21 | | 0.36 | | | 0.45 | 150 | |
| NCS HC 11208 | 20Cr ₃ MoWV | 0.17 | 0.14 | 0.36 | 0.013 | 0.008 | 2.59 | 0.18 | 0.17 | | 0.79 | | 0.38 | 0.64 | 150 | |
| NCS HC 11209 | W ₃ CrV | 1.60 | 0.41 | 0.59 | 0.044 | | 0.38 | | | | 0.26 | | 2.70 | | 100 | |
| NCS HC 11209a | W ₃ MoV | 1.56 | 0.41 | 0.76 | 0.029 | 0.006 | 0.47 | | | | 0.36 | | 3.14 | | 150 | |
| NCS HC 11210 | 3CrAl | 0.43 | 0.75 | 0.24 | 0.013 | | 1.35 | 0.020 | 0.020 | 0.62 | | | | | 150 | |
| NCS HC 11211 | 9V | 1.05 | 0.33 | 0.41 | 0.011 | 0.009 | 0.63 | 0.021 | 0.022 | | 0.23 | | | | 150 | |
| NCS HC 11212 | 30CrMoWV | 0.30 | 0.22 | 0.55 | 0.017 | 0.006 | 2.65 | | 0.12 | | 0.75 | | 0.65 | 0.56 | 150 | |
| NCS HC 11213 | 35CrMnSiNi ₂ Mo | 0.35 | 0.96 | 1.15 | 0.018 | 0.004 | 0.84 | 1.96 | 0.059 | | 0.058 | | | 0.33 | 150 | |
| NCS HC 11214 | GCr15 | 0.997 | 0.281 | 0.287 | 0.013 | 0.007 | 1.53 | 0.019 | 0.028 | | | | | | 150 | |
| NCS HC 11222 | 40SiMn ₂ | 0.38 | 0.89 | 1.65 | 0.011 | 0.005 | 0.11 | | 0.045 | | | | | | 150 | |
| NCS HC 11222a | 40SiMn ₂ | 0.39 | 0.98 | 1.69 | 0.041 | 0.012 | 0.17 | 0.35 | 0.055 | | | | | | 150 | |
| NCS HC 11223 | 20MnTiB | 0.18 | 0.24 | 1.42 | 0.026 | 0.007 | 0.020 | | 0.026 | | | 0.054 | | | 150 | |
| NCS HC 11224 | 45B | 0.43 | 0.36 | 1.15 | 0.020 | 0.010 | 0.062 | 0.20 | 0.046 | 0.075 | | | | | 150 | |
| NCS HC 11225 | 18CrMnTi | 0.16 | 0.33 | 1.01 | 0.020 | 0.007 | 1.08 | 0.14 | | | | 0.049 | | | 150 | |
| NCS HC 11226 | 40Cr | 0.40 | 0.26 | 0.79 | 0.014 | 0.017 | 1.01 | 0.076 | 0.036 | | | | | | 150 | |
| NCS HC 11227 | 60Si ₂ Mn | 0.60 | 2.05 | 0.84 | 0.051 | 0.008 | 0.016 | 0.039 | 0.046 | | | | | | 150 | |
| NCS HC 11228 | 15MnVN | 0.18 | 0.23 | 1.38 | 0.015 | 0.011 | | 0.30 | 0.18 | | 0.091 | | | | 150 | |
| NCS HC 11229 | 40Si ₂ V | 0.44 | 1.66 | 0.74 | 0.018 | 0.006 | | 0.20 | 0.13 | | 0.14 | | | | 150 | |
| NCS HC 11230 | 08MnPR _E | 0.092 | 0.36 | 1.07 | 0.058 | 0.011 | | | | | | | | | 150 | |
| NCS HC 11231 | 14MnVTiR _E | 0.22 | 0.36 | 1.60 | 0.067 | 0.009 | | | | | 0.067 | 0.10 | | | 150 | |
| NCS HC 11232 | 20CrMo | 0.212 | 0.270 | 0.460 | 0.0174 | 0.0117 | 0.972 | | 0.031 | | | | | 0.191 | 100 | |
| NCS HC 11233 | 60Si ₂ Mn | 0.661 | 1.82 | 0.805 | 0.027 | 0.017 | 0.021 | 0.020 | 0.136 | | | | | | 150 | |
| NCS HC 11234 | GCr15Si Mn | 0.993 | 0.582 | 0.996 | 0.017 | 0.0060 | 1.47 | 0.053 | 0.152 | | | | | 0.029 | 100 | |
| NCS HC 11235 | Medium Low Alloy Steel | 0.658 | 0.069 | 0.120 | 0.0044 | 0.0018 | 0.350 | 0.774 | 0.385 | 1.51 | 0.447 | 0.483 | 0.897 | 0.266 | 150 | |
| NCS HC 11236 | Low alloy | 0.211 | 0.174 | 1.36 | 0.046 | 0.021 | 0.124 | 0.487 | 0.233 | 0.866 | 0.619 | 0.812 | 1.60 | 0.472 | 150 | |
| | | Co | B | Sn | As | Sb | Pb | N | Bi | R _E | Nb | Zr | | | | |
| NCS HC 11201 | NoB | 0.008 | 1.21 | | | | | | | | | | | | | |
| NCS HC 11223 | 20MnTiB | | 0.0022 | | | | | | | | | | | | | |
| NCS HC 11224 | 45B | | 0.0052 | | | | | | | | | | | | | |
| NCS HC 11228 | 15MnVN | | | | | | | 0.009 | | | | | | | | |
| NCS HC 11230 | 08MnPR _E | | | | | | | | | 0.028 | | | | | | |
| NCS HC 11231 | 14MnVTiR _E | | | | | | | | | 0.069 | | | | | | |
| NCS HC 11233 | 60Si ₂ Mn | 0.011 | | | 0.016 | | | | | | | | | | | |
| NCS HC 11235 | Medium Low Alloy Steel | 0.340 | | 0.011 | 0.012 | | | | | | 0.025 | 0.156 | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | Mo | B | | | | |
| NCS HC 13201 | 90Mn ₂ | 0.91 | 0.056 | 2.09 | 0.054 | 0.030 | 0.105 | 0.076 | 0.20 | 0.015 | | | | | 150 | |
| NCS HC 13202 | 09SiMnCr ₃ | 0.056 | 1.07 | 1.20 | 0.127 | 0.093 | 2.88 | 0.66 | 0.073 | 0.405 | | | | | 150 | |
| NCS HC 13203 | 7Cr ₂ | 0.70 | 0.041 | 0.28 | 0.083 | 0.064 | 1.45 | 0.93 | 0.12 | (0.0007) | | | | | 150 | |
| NCS HC 13204 | 09MnCr | 0.097 | 0.29 | 0.87 | 0.011 | 0.096 | 0.76 | 0.29 | 0.034 | 0.073 | | | | | 150 | |
| NCS HC 13205 | 09SiMn ₂ CrCuAl | 0.035 | 0.59 | 1.79 | 0.089 | 0.009 | 1.03 | 0.020 | 0.46 | 0.59 | | | | | 150 | |
| NCS HC 13206 | CrCu | 0.81 | 0.29 | 0.19 | 0.060 | 0.047 | 0.53 | 0.11 | 0.295 | 0.065 | | | | | 150 | |
| NCS HC 13207 | 30Mn ₂ MoVTiAlB | 0.294 | 0.070 | 1.48 | 0.036 | 0.009 | 0.037 | 0.019 | 0.035 | 0.029 | 0.025 | 0.023 | 0.038 | 0.011 | 150 | |
| NCS HC 13208 | 9Si ₂ MoVTiAlB | 1.085 | 1.42 | 0.308 | 0.013 | 0.004 | 0.045 | 0.021 | 0.036 | 0.115 | 0.50 | 0.30 | 0.89 | 0.016 | 150 | |

Section 1 Iron, Steel & Alloy(Chip)

3)Low Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
|---------------|-----------------|-------------------------------|--------|-------|--------|--------|----------|-------|-------|-------|-------|-------|-------|--------|-----|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | Mo | B | | |
| NCS HC 13209 | 09SiMoTiAlB | 0.042 | 1.11 | 0.309 | 0.012 | 0.006 | 0.013 | 0.021 | 0.035 | 0.186 | 0.25 | 0.70 | 0.485 | 0.010 | 100 | |
| NCS HC 13210 | 8SiMnMoVTiAlB | 0.78 | 0.88 | 0.675 | 0.013 | 0.122 | 0.019 | 0.021 | 0.036 | 0.10 | 0.33 | 0.39 | 0.65 | 0.0058 | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | Mo | B | | |
| NCS HC 13212 | 09SiMoVTiAlB | 0.045 | 0.46 | 0.396 | 0.054 | 0.069 | (0.0095) | 0.016 | 0.030 | 0.028 | 0.051 | 0.041 | 0.11 | 0.028 | 100 | |
| NCS HC 13214 | Low Alloy Steel | 0.395 | 0.792 | 1.84 | 0.146 | 0.018 | | | | | | | | | 100 | |
| NCS HC 13215 | Low Alloy Steel | 0.361 | 1.69 | 0.989 | 0.096 | 0.019 | | | | | | | | | 100 | |
| NCS HC 13216 | Low Alloy Steel | 0.214 | 0.389 | 1.37 | 0.056 | 0.020 | | | | | | | | | 100 | |
| NCS HC 13217 | Low Alloy Steel | 0.284 | 1.11 | 0.749 | 0.037 | 0.018 | | | | | | | | | 100 | |
| NCS HC 13219 | Low Alloy Steel | 0.520 | 1.03 | 1.04 | 0.0654 | 0.0247 | | | | | | | | | 100 | |
| NCS HC 13220 | Low Alloy Steel | 0.15 | 0.29 | 2.06 | 0.015 | | 0.51 | 0.023 | 0.036 | | 0.415 | | 0.004 | | 150 | |
| NCS HC 13221 | Low Alloy Steel | 0.065 | 0.38 | 0.96 | 0.174 | | 0.016 | | | | | 0.061 | 0.10 | | 150 | |
| | | Nb | Zr | Re | Co | N | Alt | Als | | | | | | | | |
| NCS HC 13220 | Low Alloy Steel | | | | 0.008 | 0.030 | | | | | | | | | | |
| NCS HC 13221 | Low Alloy Steel | 0.165 | | 0.014 | | | 0.085 | 0.081 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | W | Mo | Co | | |
| NCS HC 14201 | Low Alloy Steel | 0.39 | 0.293 | 0.558 | 0.019 | 0.0105 | 0.84 | 0.035 | 0.215 | 0.047 | 0.007 | | 0.193 | 0.023 | 150 | |
| NCS HC 14201a | Low Alloy Steel | 0.358 | 0.272 | 0.573 | 0.014 | 0.0086 | 1.03 | 0.020 | 0.150 | | | | 0.137 | | 100 | |
| NCS HC 14202 | Low Alloy Steel | 0.118 | 0.405 | 0.433 | 0.017 | 0.012 | | | 0.421 | 0.389 | | 0.519 | | | 100 | |
| NCS HC 14203 | Low Alloy Steel | 0.082 | 0.177 | 0.222 | 0.012 | 0.024 | | | 0.274 | 0.190 | | 0.249 | | | 100 | |
| NCS HC 14204 | Low Alloy Steel | 0.080 | 0.583 | 0.636 | 0.024 | 0.012 | | | 0.363 | 0.317 | | 0.149 | | | 100 | |
| NCS HC 14205 | Low Alloy Steel | 0.076 | 0.037 | 0.303 | 0.033 | 0.061 | | | 0.220 | 0.334 | | 0.144 | | | 100 | |
| NCS HC 14206 | Low Alloy Steel | 0.089 | 0.389 | 0.540 | 0.013 | 0.022 | | | 0.314 | 0.465 | | 0.089 | | | 100 | |
| NCS HC 14207 | Low Alloy Steel | 0.135 | 0.435 | 1.25 | 0.041 | 0.020 | | | 0.165 | | 0.090 | | | | 150 | |
| NCS HC 14208 | Low Alloy Steel | 0.39 | 1.82 | 0.97 | 0.014 | 0.009 | | | 0.43 | | 0.153 | | | | 150 | |
| NCS HC 14209 | Low Alloy Steel | 0.562 | 1.72 | 0.714 | 0.020 | 0.0054 | 0.173 | 0.201 | | | | | | | 150 | |
| NCS HC 14210 | 40Cr | 0.445 | 0.308 | 0.659 | 0.027 | 0.0068 | 1.00 | 0.017 | 0.049 | | | | | | 150 | |
| NCS HC 14211 | Low Alloy Steel | 0.192 | 0.276 | 1.72 | 0.0071 | 0.0022 | 0.283 | 0.194 | 0.311 | | 0.093 | | | | 100 | |
| NCS HC 14213 | Silicon Steel | 0.076 | 3.18 | 0.081 | 0.0090 | 0.023 | | | 0.066 | | | | | | 100 | |
| NCS HC 14214 | Silicon Steel | 0.044 | 3.15 | 0.060 | 0.0081 | 0.025 | | | 0.162 | | | | | | 100 | |
| NCS HC 14215 | Silicon Steel | 0.0032 | 0.477 | 0.256 | 0.080 | 0.0076 | | | 0.033 | | | | | | 100 | |
| NCS HC 14219 | Calcium Steel | 0.114 | 1.57 | 0.501 | 0.0090 | 0.021 | 0.557 | 0.298 | 0.122 | | 0.474 | | 0.50 | 0.0080 | 100 | |
| NCS HC 14220 | Calcium Steel | 0.312 | 0.85 | 0.113 | 0.0062 | 0.0046 | 2.66 | 0.042 | 0.054 | | 0.042 | | 1.06 | 0.012 | 100 | |
| | | Als | N | Ti | Ca | | | | | | | | | | | |
| NCS HC 14201a | Low Alloy Steel | 0.061 | | | | | | | | | | | | | | |
| NCS HC 14213 | Silicon Steel | 0.031 | 0.0081 | | | | | | | | | | | | | |
| NCS HC 14214 | Silicon Steel | 0.0014 | 0.0040 | | | | | | | | | | | | | |
| NCS HC 14215 | Silicon Steel | 0.022 | 0.0020 | | | | | | | | | | | | | |
| NCS HC 14219 | Calcium Steel | 0.0139 | | 0.115 | 0.0030 | | | | | | | | | | | |
| NCS HC 14220 | Calcium Steel | 0.121 | | 0.613 | 0.0015 | | | | | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

3)Low Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | | |
|--------------|--------------------------|-------------------------------|-------|--------|--------|--------|-----------------|-----------------|----------------|----------------|----|--------|--------|---------------------|---------------------|-----|--|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | | |
| NCS HC 15216 | ML15MnVB | 0.166 | 0.162 | 1.33 | 0.014 | 0.022 | 0.027 | 0.040 | 0.017 | 0.029 | | 0.110 | | | 0.003 | 100 | |
| NCS HC 15217 | Bearing Steel | 1.005 | 0.584 | 0.905 | 0.009 | 0.005 | 0.032 | 0.033 | | | | 0.245 | | | 0.301 | 100 | |
| | | | B | Bi | | | | | | | | | | | | | |
| NCS HC 15216 | ML15MnVB | | | 0.0011 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | | |
| | | C | Si | Mn | P | S | Al _t | Al _s | B _t | B _s | Al | N | W | | Mo | | |
| NCS HC 15218 | Low carbon Silicon Steel | 0.0045 | 1.54 | 0.247 | 0.010 | 0.0054 | 0.050 | 0.048 | 0.0026 | 0.0018 | | | | | | 100 | |
| NCS HC 15219 | Low carbon Silicon Steel | 0.0070 | 1.54 | 0.227 | 0.0098 | 0.0065 | 0.025 | 0.023 | 0.0026 | 0.009 | | | | | | 100 | |
| NCS HC 15220 | Silicon Steel | 0.094 | 0.83 | 0.51 | 0.163 | 0.0059 | | | | | | 0.046 | | | | 100 | |
| NCS HC 15221 | Silicon Steel | 0.083 | 1.26 | 0.45 | 0.194 | 0.005 | | | | | | 0.066 | | | | 100 | |
| NCS HC 15222 | Silicon Steel | 0.073 | 1.55 | 0.39 | 0.259 | 0.0053 | | | | | | 0.156 | | | | 100 | |
| NCS HC 15223 | Silicon Steel | 0.081 | 1.79 | 0.36 | 0.251 | 0.0042 | | | | | | 0.101 | | | | 100 | |
| NCS HC 15224 | Silicon Steel | 0.089 | 2.26 | 0.28 | 0.212 | 0.0048 | | | | | | 0.130 | 0.0083 | | | 100 | |
| NCS HC 15227 | Silicon Steel | 0.074 | 2.86 | 0.24 | 0.0156 | 0.0045 | | | | | | 0.021 | | | | 100 | |
| NCS HC 15228 | Silicon Steel | 0.060 | 3.21 | 0.20 | 0.0146 | 0.0049 | | | | | | 0.236 | | | | 100 | |
| NCS HC 15229 | Silicon Steel | 0.063 | 2.96 | 0.192 | 0.0124 | 0.0035 | | | | | | 0.045 | 0.0118 | | | 100 | |
| NCS HC 15230 | Silicon Steel | 0.053 | 3.47 | 0.205 | 0.0131 | 0.0021 | | | | | | 0.164 | 0.0107 | | | 100 | |
| NCS HC 15231 | Silicon Steel | 0.038 | 3.66 | 0.154 | 0.0135 | 0.0027 | | | | | | 0.158 | | | | 100 | |
| NCS HC 15232 | Silicon Steel | 0.044 | 3.97 | 0.148 | 0.0146 | 0.0029 | | | | | | 0.0163 | | | | 100 | |
| NCS HC 15233 | Silicon Steel | 0.041 | 4.18 | 0.084 | 0.0110 | 0.0033 | | | | | | 0.124 | | | | 100 | |
| NCS HC 15234 | Silicon Steel | 0.0385 | 5.21 | 0.072 | 0.0090 | 0.0047 | | | | | | 0.057 | | | | 100 | |
| NCS HC 15235 | Silicon Steel | 0.059 | 4.72 | 0.087 | 0.0085 | 0.0053 | | | | | | 0.055 | | | | 100 | |
| NCS HC 15236 | Silicon Steel | 0.038 | 5.22 | 0.070 | 0.0092 | 0.0050 | | | | | | 0.056 | | | | 100 | |
| NCS HC 15237 | F08 | 0.395 | 1.50 | 2.57 | 0.0143 | 0.0043 | | | | | | 0.048 | | | | 100 | |
| | | | Ni | Cu | V | Ti | W | Mo | Cr | | | | | | | | |
| NCS HC 15237 | F08 | | 0.029 | 0.062 | 0.142 | 0.041 | 0.29 | 0.486 | 0.017 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | W | Mo | B | | | |
| NCS HC 16201 | 25SiMnMoV | 0.25 | 0.195 | 2.20 | 0.0192 | 0.019 | 0.236 | 0.25 | 0.097 | 0.105 | | | | | 0.37 | 150 | |
| NCS HC 16202 | 35SiMn ₂ MoV | 0.332 | 1.626 | 1.691 | 0.0182 | 0.0127 | 0.24 | 0.242 | 0.388 | 0.174 | | | | | 0.381 | 150 | |
| NCS HC 16204 | 37SiMn ₂ WV | 0.374 | 0.717 | 1.651 | 0.0233 | 0.056 | 0.24 | 0.257 | 0.192 | 0.085 | | | 0.925 | 0.447 | | 150 | |
| NCS HC 16205 | 30MnMoTiB | 0.30 | 0.443 | 1.442 | 0.0207 | 0.015 | 0.305 | 0.316 | | | | 0.0625 | | | 0.0014 | 150 | |
| NCS HC 16206 | 40MnWB | 0.411 | 0.277 | 1.154 | 0.0213 | 0.013 | 0.137 | 0.171 | | | | | 0.611 | | 0.0044 | 150 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | W | Mo | B | | | |
| NCS HC 16207 | 15SiMn ₃ Mo | 0.121 | 1.160 | 3.320 | 0.0242 | 0.0490 | 0.215 | 0.201 | 0.210 | | | | | | 0.560 | 150 | |
| NCS HC 16208 | 30Mn ₂ MoV | 0.310 | 0.300 | 1.970 | 0.0174 | 0.024 | 0.283 | 0.300 | 0.239 | | | | 0.740 | | 0.460 | 150 | |
| NCS HC 16209 | 12CrMoV | 0.106 | 0.320 | 0.701 | 0.0268 | 0.034 | 0.542 | 0.045 | 0.029 | 0.269 | | | | | 0.322 | 150 | |
| NCS HC 16210 | 20SiMnV | 0.192 | 0.636 | 1.52 | 0.0207 | 0.021 | 0.255 | 0.202 | | 0.110 | | | | | | 150 | |
| NCS HC 16211 | 25Cr ₂ Mo2V | 0.254 | 0.303 | 0.753 | 0.0209 | 0.012 | 2.34 | 0.035 | 0.029 | 0.422 | | | | | 1.02 | 150 | |
| NCS HC 16212 | 30Mn ₂ MoTi | 0.301 | 0.309 | 1.56 | 0.0182 | 0.013 | 0.188 | 0.175 | | | | 0.052 | | | 0.361 | 150 | |
| NCS HC 16213 | 40MnVB | 0.425 | 0.364 | 1.22 | 0.0158 | 0.0020 | 0.072 | 0.035 | 0.034 | 0.106 | | | | | (0.0002) | 150 | |

Section 1 Iron, Steel & Alloy(Chip)

3)Low Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
|--------------|------------------------|-------------------------------|-------|-------|--------|--------|-----------------|--------|-------|-------|-------|-------|---|-------|-----|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 17201 | SiMnB | 0.0332 | 1.50 | 0.230 | 0.0128 | 0.022 | 0.473 | 0.078 | 0.320 | 0.066 | 0.050 | 0.247 | | | 100 | |
| NCS HC 17203 | SiMnB | 0.283 | 1.09 | 0.438 | 0.0220 | 0.023 | 0.300 | 0.224 | 0.247 | | 0.144 | 0.171 | | | 100 | |
| NCS HC 17204 | SiMnB | 0.392 | 0.626 | 1.08 | 0.0285 | 0.019 | 0.174 | 0.241 | 0.030 | | 0.023 | 0.116 | | | 100 | |
| NCS HC 17208 | Low Alloy Steel | 0.082 | 0.694 | 0.952 | 0.0155 | 0.057 | 0.371 | 1.80 | 0.034 | | | | | 0.569 | 100 | |
| NCS HC 17211 | Low Alloy Steel | 0.510 | 0.148 | 0.151 | 0.0283 | 0.007 | 1.70 | 0.522 | 0.27 | | | | | 0.445 | 100 | |
| NCS HC 17212 | Low Alloy Steel | 0.290 | 0.579 | 0.770 | 0.0143 | 0.012 | 1.28 | 0.858 | 1.06 | | | | | 0.298 | 100 | |
| NCS HC 17213 | Low Alloy Steel | 0.75 | 0.232 | 1.428 | 0.0128 | 0.0068 | 0.88 | 0.984 | | | 0.238 | 0.432 | | | 100 | |
| NCS HC 17214 | Low Alloy Steel | 0.619 | 0.303 | 0.884 | 0.0134 | 0.0148 | 0.935 | 1.492 | | | 0.430 | 0.643 | | | 100 | |
| NCS HC 17215 | Low Alloy Steel | 0.553 | 0.420 | 0.646 | 0.0137 | 0.0059 | 0.978 | 2.482 | | | 0.699 | 0.927 | | | 100 | |
| NCS HC 17216 | Low Alloy Steel | 0.156 | 0.557 | 0.481 | 0.0238 | 0.0092 | 1.652 | 3.47 | | | 0.114 | 1.455 | | | 100 | |
| NCS HC 17217 | Low Alloy Steel | 0.055 | 0.808 | 0.477 | 0.031 | 0.0069 | 1.21 | 4.58 | | | 0.065 | 2.34 | | | 100 | |
| NCS HC 17218 | Low Alloy Steel | 0.296 | 0.213 | 1.193 | 0.0117 | 0.002 | 0.702 | 0.431 | 0.42 | | | | | 1.05 | 100 | |
| NCS HC 17219 | Low Alloy Steel | 0.672 | 0.216 | 0.382 | 0.0172 | 0.0261 | 0.074 | 0.053 | 0.063 | | | | | 0.081 | 100 | |
| NCS HC 17224 | 18CrMnTi | 0.184 | 0.351 | 0.981 | 0.0074 | 0.035 | 1.14 | 0.085 | 0.190 | | | | | | 150 | |
| NCS HC 17225 | 45CrNi | 0.476 | 0.273 | 0.675 | 0.0204 | 0.016 | 0.62 | 1.24 | 0.203 | | | | | | 150 | |
| NCS HC 17226 | 5CrMnMo | 0.558 | 0.507 | 1.47 | 0.0235 | 0.032 | 0.74 | 0.246 | 0.161 | | | | | 0.245 | 150 | |
| NCS HC 17227 | 12CrMoV | 0.103 | 0.256 | 0.502 | 0.0204 | 0.024 | 0.51 | 0.176 | 0.184 | | 0.25 | | | 0.298 | 150 | |
| NCS HC 17229 | 37SiMn ₂ VW | 0.399 | 0.684 | 1.79 | 0.0251 | 0.0258 | 0.283 | 0.27 | 0.182 | | | | | 0.476 | 150 | |
| NCS HC 17232 | 5CrWSi | 0.503 | 0.592 | 0.376 | 0.0212 | 0.015 | 1.14 | 0.140 | 0.028 | | | | | | 150 | |
| NCS HC 17234 | Low Alloy Steel | 0.15 | 1.065 | 0.91 | 0.0044 | 0.045 | 1.035 | 0.906 | 0.277 | 0.035 | | 0.40 | | | 150 | |
| | | | Nb | Zr | B | RE | Al _i | Bt | | | | | | | | |
| NCS HC 17201 | SiMnB | | | | 0.0016 | | 0.069 | 0.0067 | | | | | | | | |
| NCS HC 17203 | SiMnB | | | | 0.0041 | | 0.132 | 0.0045 | | | | | | | | |
| NCS HC 17204 | SiMnB | | | | 0.0037 | | 0.086 | 0.0042 | | | | | | | | |
| NCS HC 17214 | Low Alloy Steel | 0.262 | 0.049 | | | 0.0222 | | | | | | | | | | |
| NCS HC 17215 | Low Alloy Steel | 0.469 | 0.088 | | | 0.037 | | | | | | | | | | |
| NCS HC 17216 | Low Alloy Steel | 0.735 | 0.132 | | | 0.0376 | | | | | | | | | | |
| NCS HC 17217 | Low Alloy Steel | 1.143 | 0.121 | | | 0.043 | | | | | | | | | | |
| NCS HC 17224 | Low Alloy Steel | | | | | 0.0069 | | | | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

3)Low Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
|---|----------------------|-------------------------------|-------|--------|--------|--------|--------|-------|-------|-------|----------|-----------------|-----------------|---------------------|---------------------|-----|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | Al _i | Al _s | Bt | | |
| NCS HC 17201a | Low Alloy Steel | 0.087 | 1.41 | 0.234 | 0.0067 | 0.049 | 0.653 | 0.480 | 0.371 | 0.536 | 0.046 | 0.392 | 0.386 | 0.0054 | 100 | |
| NCS HC 17202a | Low Alloy Steel | 0.180 | 0.241 | 1.30 | 0.016 | 0.023 | 0.428 | 0.167 | 0.304 | 0.172 | 0.179 | 0.125 | 0.121 | 0.0021 | 100 | |
| NCS HC 17203a | Low Alloy Steel | 0.337 | 1.06 | 0.449 | 0.031 | 0.067 | 0.267 | 0.111 | 0.251 | 0.147 | 0.248 | 0.193 | 0.188 | 0.0057 | 100 | |
| NCS HC 17204a | Low Alloy Steel | 0.396 | 0.195 | 0.887 | 0.026 | 0.015 | 0.215 | 0.262 | 0.116 | 0.101 | 0.058 | 0.049 | 0.048 | 0.0040 | 100 | |
| Bs | | | | | | | | | | | | | | | | |
| NCS HC 17201a | Low Alloy Steel | 0.0044 | | | | | | | | | | | | | | |
| NCS HC 17202a | Low Alloy Steel | 0.0018 | | | | | | | | | | | | | | |
| NCS HC 17203a | Low Alloy Steel | 0.0047 | | | | | | | | | | | | | | |
| NCS HC 17204a | Low Alloy Steel | 0.0032 | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | Mo | Nb | B | | |
| NCS HC 18201a | Low Alloy Steel | 0.044 | 1.53 | 1.3 | 0.0063 | 0.0027 | 0.026 | 0.025 | 0.099 | 0.387 | 0.286 | 0.019 | 0.013 | 0.0014 | 100 | |
| NCS HC 18202a | Low Alloy Steel | 0.247 | 1.05 | 0.915 | 0.03 | 0.04 | 0.186 | 0.304 | 0.133 | 0.349 | 0.145 | 0.489 | 0.095 | 0.0087 | 100 | |
| NCS HC 18203a | Low Alloy Steel | 0.331 | 0.64 | 0.549 | 0.051 | 0.032 | 1.62 | 0.977 | 0.213 | 0.481 | 0.444 | 0.184 | 0.024 | 0.0025 | 100 | |
| NCS HC 18204a | Low Alloy Steel | 0.603 | 0.466 | 0.735 | 0.038 | 0.034 | 0.99 | 0.739 | 0.326 | 0.221 | 0.382 | 0.248 | 0.053 | 0.0036 | 100 | |
| NCS HC 18205a | Low Alloy Steel | 0.431 | 0.212 | 1.48 | 0.034 | 0.025 | 0.27 | 1.44 | 0.036 | 0.018 | 0.061 | 0.33 | 0.061 | 0.0054 | 100 | |
| NCS HC 18206a | Low Alloy Steel | 0.853 | 0.754 | 0.258 | 0.012 | 0.014 | 0.769 | 0.454 | 0.191 | 0.164 | 0.175 | 0.404 | 0.066 | 0.0038 | 100 | |
| NCS HC 18207a | Low Alloy Steel | 0.144 | 0.168 | 1.66 | 0.021 | 0.02 | 0.533 | 0.133 | 0.285 | 0.1 | 0.079 | 0.078 | 0.068 | 0.0025 | 100 | |
| NCS HC 18208 | 42CrMo | 0.413 | 0.260 | 0.542 | 0.025 | 0.025 | 0.933 | 0.319 | 0.199 | | | 0.233 | | | 150 | |
| NCS HC 18209 | ZG35CrMo | 0.321 | 0.406 | 0.514 | 0.035 | 0.0029 | 0.933 | 0.376 | 0.180 | | | 0.324 | | | 150 | |
| NCS HC 18210 | 40Cr | 0.41 | 0.26 | 0.54 | 0.025 | 0.025 | 0.93 | 0.32 | 0.20 | | | | | 100 | | |
| NCS HC 18211 | 60Si ₂ Mn | 0.592 | 1.84 | 0.735 | 0.016 | 0.022 | | | 0.037 | | | | | 100 | | |
| NCS HC 18212 | 20CrMnTi | 0.219 | 0.417 | 1.02 | 0.016 | 0.015 | 1.14 | | | | | 0.060 | | | 100 | |
| NCS HC 18213 | 20CrMo | 0.220 | 0.217 | 0.473 | 0.016 | 0.020 | 1.00 | | | | | 0.231 | | | 100 | |
| NCS HC 18214 | Low Alloy Steel | 0.355 | 0.273 | 0.57 | 0.01 | 0.033 | 0.93 | 0.057 | 0.075 | | | 0.154 | | | 100 | |
| NCS HC 18215 | Low Alloy Steel | 0.152 | 0.305 | 1.26 | 0.012 | 0.023 | 0.121 | 0.034 | 0.077 | | | | | 100 | | |
| Sn As Pb Al _i Al _s Zn | | | | | | | | | | | | | | | | |
| NCS HC 18201a | Low Alloy Steel | 0.003 | 0.092 | 0.0059 | 0.015 | 0.014 | 0.0047 | | | | | | | | | |
| NCS HC 18202a | Low Alloy Steel | 0.016 | 0.075 | 0.016 | 0.052 | 0.049 | 0.0068 | | | | | | | | | |
| NCS HC 18203a | Low Alloy Steel | 0.052 | 0.055 | 0.0075 | 0.22 | 0.217 | 0.0063 | | | | | | | | | |
| NCS HC 18204a | Low Alloy Steel | 0.022 | 0.036 | 0.0093 | 0.067 | 0.064 | 0.0036 | | | | | | | | | |
| NCS HC 18205a | Low Alloy Steel | 0.09 | 0.012 | 0.0036 | 0.128 | 0.12 | 0.002 | | | | | | | | | |
| NCS HC 18206a | Low Alloy Steel | 0.061 | 0.053 | 0.011 | 0.196 | 0.188 | 0.03 | | | | | | | | | |
| NCS HC 18207a | Low Alloy Steel | 0.079 | 0.026 | 0.026 | 0.056 | 0.053 | 0.035 | | | | | | | | | |
| NCS HC 18214 | Low Alloy Steel | | 0.011 | 0.57 | 0.035 | 0.029 | | | | | | | | | | |
| NCS HC 18215 | Low Alloy Steel | | 0.018 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Mo | Co | B | | | |
| NCS HC 19201 | 20Cr | 0.175 | 0.285 | 0.610 | 0.0203 | 0.020 | 0.81 | | | | | | | | | 100 |
| NCS HC 19202 | 40Cr | 0.435 | 0.274 | 0.698 | 0.0139 | 0.010 | 0.97 | | | | | | | | | 100 |
| NCS HC 19204 | Axle Steel | 0.444 | 0.280 | 0.680 | 0.010 | 0.030 | 0.013 | 0.025 | 0.037 | 0.011 | 0.036 | | | | 100 | |
| NCS HC 19205 | 09V | 0.093 | 0.486 | 0.87 | 0.010 | 0.036 | 0.016 | 0.039 | 0.110 | 0.085 | | | | | 100 | |
| NCS HC 19206 | 38CrMoAl | 0.402 | 0.364 | 0.430 | 0.0154 | 0.009 | 1.51 | | | 0.198 | | | | 100 | | |
| NCS HC 19207 | 27MnMoVB | 0.306 | 0.232 | 1.33 | 0.0195 | 0.014 | | | 0.125 | 0.388 | (0.0014) | | 100 | | | |
| NCS HC 19208 | 18CrMnTi | 0.192 | 0.299 | 0.975 | 0.0104 | 0.010 | 1.22 | | | | | | | | 100 | |

Section 1 Iron, Steel & Alloy(Chip)

3)Low Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
|---------------|-------------------------|-------------------------------|-------|-------|--------|----------|-------|-------|--------|--------|--------|--------|--------|-------|--------|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 20201 | 20Cr | 0.209 | 0.298 | 0.609 | 0.015 | 0.014 | 0.808 | 0.093 | 0.089 | | | 0.0032 | | | 0.0088 | 100 |
| NCS HC 20202 | 40Cr | 0.409 | 0.376 | 0.742 | 0.015 | 0.011 | 1.053 | 0.063 | 0.086 | | | 0.0023 | | | 0.0088 | 100 |
| NCS HC 20203 | 20Cr | 0.21 | 0.30 | 0.61 | 0.015 | 0.014 | 0.81 | 0.094 | 0.090 | | | | | | | 100 |
| NCS HC 20204 | 20Mn ₂ | 0.201 | 0.313 | 1.63 | 0.022 | 0.018 | 0.300 | 0.265 | 0.169 | 0.021 | 0.0025 | 0.0033 | 0.0081 | 0.043 | | 100 |
| NCS HC 20207 | 15CrMnMoV | 0.137 | 0.102 | 1.03 | 0.014 | 0.012 | 1.36 | 0.035 | 0.080 | 0.031 | 0.272 | 0.0045 | 0.032 | 0.910 | | 100 |
| NCS HC 20208 | 35SiMn | 0.374 | 1.15 | 1.26 | 0.019 | 0.011 | 0.113 | 0.034 | 0.085 | | | | | | | 100 |
| NCS HC 20210 | Silicon Steel | 0.057 | 3.36 | 0.225 | 0.0072 | 0.019 | 0.259 | 0.316 | 0.314 | | | | | | 0.0036 | 100 |
| NCS HC 20214 | 15MnCrNiCu | 0.123 | 0.314 | 0.674 | 0.022 | 0.024 | 0.782 | 0.387 | 0.254 | 0.011 | 0.0032 | 0.0026 | 0.0052 | 0.027 | | 100 |
| NCS HC 20215 | 40CrNiMoA | 0.385 | 0.271 | 0.667 | 0.013 | 0.020 | 0.781 | 1.54 | 0.150 | 0.011 | 0.0062 | 0.0038 | 0.0066 | 0.215 | | 100 |
| | | Co | | | | | | | | | | | | | | |
| NCS HC 20204 | 20Mn ₂ | 0.019 | | | | | | | | | | | | | | |
| NCS HC 20207 | 15CrMnMoV | 0.010 | | | | | | | | | | | | | | |
| NCS HC 20214 | 15MnCrNiCu | 0.011 | | | | | | | | | | | | | | |
| NCS HC 20215 | 40CrNiMoA | 0.011 | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 21201 | GCr15 | 1.090 | 0.431 | 0.433 | 0.0112 | (0.0005) | 1.442 | 0.134 | 0.158 | 0.0363 | | 0.0074 | | | 0.060 | 100 |
| NCS HC 21201b | Bearing Steel | 0.990 | 0.239 | 0.315 | 0.0065 | 0.0054 | 1.47 | 0.042 | 0.086 | | | | | | 0.032 | 100 |
| NCS HC 21202 | GCr ₁₅ SiMn | 1.006 | 0.550 | 1.063 | | 0.0065 | 1.506 | 0.046 | 0.126 | 0.042 | | 0.0072 | | | 0.011 | 100 |
| NCS HC 21203 | GCr15 | 1.01 | 0.305 | 0.37 | 0.012 | (0.0004) | 1.55 | 0.046 | 0.081 | | | | | | | 100 |
| NCS HC 21204 | GCr15 | 1.019 | 0.151 | 0.338 | 0.020 | (0.019) | 1.539 | | 0.086 | | | | | | | 100 |
| NCS HC 21205 | GCr15 | 0.953 | 0.193 | 0.282 | 0.0276 | 0.012 | 1.634 | | 0.233 | | | | | | | 100 |
| NCS HC 21206 | GCr ₁₅ SiMn | 0.98 | 0.404 | 0.99 | 0.023 | 0.005 | 1.38 | | | | | | | | | 100 |
| NCS HC 21207 | 60Si ₂ Mn | 0.501 | 2.15 | 0.600 | 0.0149 | 0.0174 | 0.362 | 0.276 | 0.195 | 0.065 | 0.043 | | 0.77 | 0.160 | | 100 |
| NCS HC 21208 | 60Si ₂ Mn | 0.400 | 2.91 | 0.437 | 0.0064 | 0.0029 | 0.159 | 0.064 | 0.064 | 0.113 | | | 1.18 | 0.012 | | 100 |
| NCS HC 21209 | 60Si ₂ Mn | 0.599 | 1.69 | 1.14 | 0.0209 | 0.0291 | 1.13 | 0.124 | 0.095 | 0.018 | 0.084 | | 0.025 | 0.091 | | 100 |
| NCS HC 21210 | 60Si ₂ Mn | 0.706 | 1.10 | 0.857 | 0.0256 | 0.0374 | 0.760 | 0.393 | 0.303 | 0.158 | 0.168 | | 0.176 | 0.273 | | 100 |
| NCS HC 21211 | 60Si ₂ Mn | 0.666 | 1.74 | 0.752 | 0.0144 | 0.0190 | 0.071 | 0.018 | 0.147 | 0.132 | 0.129 | | 0.40 | 0.051 | | 100 |
| NCS HC 21212 | H08Mo ₂ SiA | 0.087 | 0.827 | 1.90 | 0.0107 | 0.0156 | 0.035 | 0.061 | 0.091 | | | | | | | 100 |
| NCS HC 21215 | 35MoVAITiR _E | 0.37 | 0.42 | 1.15 | 0.013 | <0.001 | 0.030 | 0.061 | 0.13 | 0.52 | | | | | 1.05 | 100 |
| NCS HC 21218 | CrMnV+Mo | 0.09 | 0.775 | 9.88 | 0.0464 | 0.012 | 18.80 | 4.97 | 0.0396 | | 0.024 | | | | 3.10 | 100 |
| NCS HC 21220 | CrMnV | 0.09 | 0.82 | 13.56 | 0.100 | 0.026 | 15.89 | 7.114 | 0.080 | | 0.027 | | | | | 100 |
| NCS HC 21221 | 20MnSi | 0.218 | | 1.28 | 0.020 | 0.025 | 0.239 | 0.094 | 0.136 | | 0.094 | 0.028 | | 0.061 | | 100 |
| | | B Sn As Sb N Ce | | | | | | | | | | | | | | |
| NCS HC 21201 | GCr15 | 0.0273 0.023 0.025 | | | | | | | | | | | | | | |
| NCS HC 21201b | Bearin Steel | 0.020 0.0092 | | | | | | | | | | | | | | |
| NCS HC 21202 | GCr ₁₅ SiMn | 0.0031 0.0107 0.0110 0.022 | | | | | | | | | | | | | | |
| NCS HC 21204 | GCr15 | 0.049 | | | | | | | | | | | | | | |
| NCS HC 21205 | GCr15 | 0.038 0.0334 | | | | | | | | | | | | | | |
| NCS HC 21206 | GCr ₁₅ SiMn | 0.022 | | | | | | | | | | | | | | |
| NCS HC 21210 | 60Si ₂ Mn | 0.0012 | | | | | | | | | | | | | | |
| NCS HC 21211 | 60Si ₂ Mn | 0.0013 | | | | | | | | | | | | | | |
| NCS HC 21218 | CrMnV+Mo | 0.097 | | | | | | | | | | | | | | |
| NCS HC 21220 | CrMnN | 0.29 | | | | | | | | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

3)Low Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|------------|---|-------------------------------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|---------------------|---------------------|---------------------|
| | | C | Mn | P | S | Si | Ni | Cr | Cu | Mo | W | Als | Alt | Sn | |
| NCSHC21222 | 65Mn | 0.649 | 1.02 | 0.012 | 0.0062 | 0.279 | 0.040 | 0.048 | 0.147 | 0.0069 | 0.0019 | 0.0051 | 0.0061 | 0.014 | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | |
| | | C | S | P | Si | Mn | Cr | Ni | Cu | Nb | Re | Al(s) | N | | |
| NCSHC22201 | Alloy structure steel | 0.073 | 0.0053 | 0.0253 | 0.438 | 0.675 | 0.090 | 0.096 | 0.089 | 0.044 | 0.048 | 0.093 | 0.013 | 150 | |
| NCSHC22202 | Alloy structure steel | 0.069 | 0.0076 | 0.0135 | 0.715 | 0.991 | 0.228 | 0.071 | 0.075 | 0.076 | 0.018 | 0.123 | 0.014 | 150 | |
| NCSHC22203 | Alloy structure steel | 0.124 | 0.0045 | 0.0125 | 0.674 | 0.821 | 0.127 | 0.055 | 0.094 | 0.122 | 0.098 | 0.177 | | 150 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | |
| NCSHC23202 | 30CrNi ₂ MoV | 0.302 | 0.278 | 0.503 | 0.039 | 0.061 | 0.94 | 2.31 | 0.257 | 0.011 | 0.217 | | | 0.244 | 150 |
| NCSHC23205 | 12CrNi ₃ | 0.124 | 0.183 | 0.527 | 0.021 | 0.021 | 0.740 | 2.82 | 0.195 | 0.052 | | | 0.202 | 0.141 | 100 |
| NCSHC23206 | 30CrMnSi | 0.289 | 1.15 | 0.930 | 0.014 | 0.023 | 0.943 | 0.162 | 0.152 | 0.089 | | | 0.216 | 0.150 | 100 |
| NCSHC23208 | 45CrV | 0.41 | 0.364 | 0.67 | 0.0184 | 0.0165 | 0.96 | 0.139 | 0.095 | | | | | | 150 |
| NCSHC23209 | 38CrMoAl | 0.360 | 0.310 | 0.490 | 0.0310 | 0.0140 | 1.540 | 0.410 | 0.185 | 1.13 | | | | 0.270 | 150 |
| NCSHC23210 | 38CrMoAl | 0.39 | 0.335 | 0.425 | 0.0246 | 0.011 | 1.44 | 0.238 | 0.275 | 0.93 | | | | 0.17 | 150 |
| NCSHC23211 | PCrNi ₄ Mo | 0.367 | 0.375 | 0.56 | 0.018 | 0.027 | 0.957 | 3.95 | | | | | | 0.43 | 150 |
| NCSHC23214 | 30CrMnMoTi | 0.328 | 0.326 | 0.770 | 0.0205 | 0.021 | 1.160 | 0.058 | 0.060 | | | | | 0.270 | 150 |
| NCSHC23215 | 6 [#] Si ₂ M [#] W | 0.691 | 1.836 | 0.813 | 0.019 | 0.0223 | 0.227 | 0.273 | 0.038 | | | | 1.03 | | 150 |
| NCSHC23217 | 45CrNiMoY | 0.43 | 0.337 | 0.635 | 0.027 | 0.016 | 0.994 | 1.64 | 0.206 | | 0.15 | | | 0.28 | 150 |
| NCSHC23218 | 35MnWMoVB | 0.33 | 0.40 | 1.02 | 0.032 | 0.024 | 0.18 | 0.26 | 0.17 | | 0.25 | | 0.50 | 0.137 | 150 |
| NCSHC23220 | 12CrNiA | 0.144 | 0.24 | 0.49 | 0.0247 | 0.011 | 0.82 | 2.41 | 0.11 | | | | | | 150 |
| NCSHC23221 | 38CrA | 0.375 | 0.345 | 0.69 | 0.026 | 0.0315 | 1.00 | 0.26 | 0.16 | 0.17 | | | | | 150 |
| NCSHC23222 | 45CrNiWV | 0.467 | 0.47 | 0.687 | 0.022 | 0.0248 | 1.03 | 1.515 | | | 0.146 | | 0.693 | | 150 |
| NCSHC23223 | 30CrMnSiNi ₂ | 0.30 | 1.07 | 0.885 | 0.0197 | 0.0186 | 1.03 | 1.56 | 0.161 | 0.080 | | | 0.195 | 0.126 | 100 |
| | | Co | Nb | Zr | B | N | RE | | | | | | | | |
| NCSHC23218 | 35MnWMoVB | | | 0.0034 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | W | Mo | | | |
| NCSHC24202 | 70Si ₂ CrA | 0.673 | 1.58 | 0.504 | 0.018 | 0.012 | 0.29 | 0.040 | 0.073 | | | | | | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | Ti | Mo | B | Bt | |
| NCSHC28201 | 20Cr | 0.197 | 0.252 | 0.738 | 0.0195 | 0.015 | 0.785 | 0.026 | 0.029 | | | | | | 150 |
| NCSHC28202 | 40Cr | 0.44 | 0.335 | 0.665 | 0.014 | 0.0055 | 0.998 | 0.053 | 0.741 | | | | | | 150 |
| NCSHC28204 | 35CrMo | 0.390 | 0.304 | 0.558 | 0.029 | 0.0054 | 0.948 | 0.070 | 0.096 | | | 0.137 | | | 100 |
| NCSHC28205 | 45Mn ₂ | 0.422 | 0.298 | 1.63 | 0.015 | 0.017 | 0.012 | 0.021 | 0.014 | | | | | | 100 |

Section 1 Iron, Steel & Alloy(Chip)

3)Low Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|--------------|-----------------------|-------------------------------|--------|--------|--------|--------|----------------|--------|--------|---------|--------|--------|--------|--------|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Ti | W | Mo | Sn | Als | |
| NCS HC 28206 | Bearing Steel | 0.993 | 0.205 | 0.284 | 0.011 | 0.0073 | 1.53 | 0.056 | 0.168 | 0.0026 | 0.0015 | 0.011 | 0.010 | 0.012 | 100 |
| NCS HC 28207 | Bearing Steel | 1.08 | 0.232 | 0.284 | 0.019 | 0.0097 | 1.36 | 0.051 | 0.180 | 0.0030 | 0.0003 | 0.0007 | 0.0093 | 0.0029 | 100 |
| NCS HC 28208 | Alloy structure Steel | 0.203 | 0.221 | 0.502 | 0.020 | 0.018 | 0.907 | 0.050 | 0.181 | 0.0010 | 0.0024 | 0.194 | | 0.012 | 100 |
| NCS HC 28209 | Alloy structure Steel | 0.202 | 0.225 | 1.02 | 0.017 | 0.011 | 1.21 | 0.047 | 0.141 | 0.0014 | 0.0053 | 0.236 | | 0.020 | 100 |
| NCS HC 28210 | Alloy structure Steel | 0.224 | 0.288 | 0.764 | 0.026 | 0.0083 | 6.21 | 0.452 | 0.175 | 0.0020 | 0.0018 | 0.254 | | 0.0051 | 100 |
| NCS HC 28211 | Alloy structure Steel | 0.265 | 0.312 | 0.934 | 0.013 | 0.014 | 1.13 | 0.082 | 0.148 | 0.070 | | 0.011 | | 0.018 | 100 |
| NCS HC 28212 | Alloy structure Steel | 0.506 | 0.304 | 0.664 | 0.014 | 0.022 | 1.04 | 0.109 | 0.208 | 0.0021 | | 0.016 | | 0.002 | 100 |
| NCS HC 28213 | Anchor Chain Steel | 0.202 | 0.271 | 1.19 | 0.015 | 0.014 | 0.082 | 0.128 | 0.223 | 0.024 | 0.0016 | 0.017 | | 0.040 | 100 |
| NCS HC 28214 | Anchor Chain Steel | 0.312 | 0.292 | 1.35 | 0.023 | 0.017 | 0.069 | 0.117 | 0.243 | 0.023 | 0.0022 | 0.010 | | 0.040 | 100 |
| NCS HC 28215 | Structural Steel | 0.104 | 0.308 | 0.476 | 0.093 | 0.024 | 0.016 | 0.011 | 0.295 | (0.004) | | | | 0.0015 | 100 |
| NCS HC 28216 | Carbon Steel | 0.162 | 0.21 | 0.373 | 0.019 | 0.015 | 0.129 | 0.137 | 0.091 | 0.0005 | 0.0047 | 0.024 | 0.0046 | 0.0018 | 100 |
| NCS HC 28217 | Alloy Steel | 0.345 | 0.318 | 0.424 | 0.022 | 0.011 | 1.58 | 0.099 | 0.116 | 0.0036 | 0.0053 | 0.171 | 0.0047 | 0.807 | 100 |
| NCS HC 28218 | Alloy Steel | 0.21 | 0.385 | 1.295 | 0.013 | 0.0208 | 0.169 | 0.099 | 0.101 | 0.0009 | 0.161 | 0.015 | 0.0054 | 0.054 | 100 |
| NCS HC 28219 | Alloy Steel | 0.118 | 0.237 | 0.257 | 0.023 | 0.023 | 0.147 | 0.154 | 0.354 | 0.109 | 0.013 | 0.02 | 0.0048 | 0.101 | 100 |
| NCS HC 28220 | Alloy Steel | 0.397 | 1 | 0.701 | 0.013 | 0.012 | 1.91 | 1.29 | 0.091 | 0.081 | 1.2 | 0.446 | 0.0057 | 0.01 | 100 |
| NCS HC 28221 | Alloy Steel | 0.249 | 0.464 | 0.444 | 0.016 | 0.021 | 1.64 | 1.73 | 0.097 | 0.043 | 0.583 | 0.426 | 0.021 | 0.0042 | 100 |
| NCS HC 28223 | Line Steel | 0.055 | 0.29 | 1.81 | 0.011 | 0.0024 | 0.283 | 0.201 | 0.205 | 0.022 | | 0.116 | | 0.026 | 100 |
| NCS HC 28224 | Line Steel | 0.058 | 0.202 | 1.41 | 0.0072 | 0.0063 | 0.049 | 0.012 | 0.013 | 0.016 | | 0.0014 | | 0.026 | 100 |
| NCS HC 28225 | Line Steel | 0.083 | 0.194 | 0.559 | 0.01 | 0.007 | 0.024 | 0.009 | 0.02 | 0.003 | | 0.002 | | 0.021 | 100 |
| NCS HC 28226 | Line Steel | 0.086 | 0.246 | 1.2 | 0.011 | 0.006 | 0.022 | 0.008 | 0.015 | 0.01 | | 0.0012 | | 0.015 | 100 |
| NCS HC 28227 | Line Steel | 0.105 | 0.325 | 1.31 | 0.0087 | 0.0041 | 0.023 | 0.0089 | 0.016 | 0.02 | | 0.0013 | | 0.022 | 100 |
| NCS HC 28228 | Line Steel | 0.108 | 0.279 | 1.23 | 0.013 | 0.006 | 0.026 | 0.0061 | 0.01 | 0.01 | | 0.001 | | 0.022 | 100 |
| | | AlI | Co | As | V | Nb | R _E | Sb | Alt | B | Zn | Ca | N | | |
| NCS HC 28206 | Bearing Steel | 0.0013 | 0.013 | 0.0099 | | | | | | | | | | | |
| NCS HC 28207 | Bearin Steel | 0.0021 | 0.013 | 0.0097 | | | | | | | | | | | |
| NCS HC 28208 | Alloy Stucture Steel | 0.0022 | 0.013 | | 0.0025 | | | | | | | | | | |
| NCS HC 28209 | Alloy Stucture Steel | 0.0020 | 0.013 | | 0.0035 | | | | | | | | | | |
| NCS HC 28210 | Alloy Stucture Steel | 0.0036 | 0.013 | | 0.0033 | | | | | | | | | | |
| NCS HC 28211 | Alloy Stucture Steel | 0.0019 | 0.012 | | 0.0038 | | | | | | | | | | |
| NCS HC 28212 | Alloy Stucture Steel | 0.0029 | 0.014 | | 0.154 | | | | | | | | | | |
| NCS HC 28213 | Anchor Chain Steel | 0.0019 | 0.011 | | 0.0013 | | | | | | | | | | |
| NCS HC 28214 | Anchor Chain Steel | 0.0021 | 0.013 | | 0.0013 | | | | | | | | | | |
| NCS HC 28215 | Structural Steel | | 0.0057 | | 0.0034 | <0.001 | 0.0022 | | | | | | | | |
| NCS HC 28216 | Carbon Steel | | 0.0071 | 0.0068 | 0.0011 | | | 0.0019 | 0.0029 | 0.0002 | 0.0004 | | | | |
| NCS HC 28217 | Carbon Steel | | 0.0092 | 0.0061 | 0.0034 | | | 0.002 | 0.824 | 0.0003 | 0.02 | | | | |
| NCS HC 28218 | Carbon Steel | | 0.0064 | 0.0056 | 0.011 | | | 0.0019 | 0.061 | 0.0003 | 0.0006 | | | | |
| NCS HC 28219 | Carbon Steel | | 0.0093 | 0.0067 | 0.0023 | | | 0.0023 | 0.106 | 0.0003 | 0.0023 | | | | |
| NCS HC 28220 | Carbon Steel | | 0.021 | 0.0064 | 0.377 | | | 0.002 | 0.012 | 0.0013 | 0.0014 | | | | |
| NCS HC 28221 | Carbon Steel | | 0.024 | 0.0087 | 0.218 | | | 0.0056 | 0.0087 | 0.0003 | 0.0014 | | | | |
| NCS HC 28223 | Line Steel | | | 0.004 | 0.0043 | 0.103 | | | 0.027 | | | 0.0009 | 0.0053 | | |
| NCS HC 28224 | Line Steel | | | 0.0032 | 0.042 | 0.05 | | | 0.028 | | | 0.0012 | 0.004 | | |
| NCS HC 28225 | Line Steel | | | 0.0034 | 0.0009 | 0.011 | | | 0.023 | | | 0.0017 | 0.0053 | | |
| NCS HC 28226 | Line Steel | | | 0.0043 | 0.0014 | 0.022 | | | 0.016 | | | 0.0035 | 0.0059 | | |
| NCS HC 28227 | Line Steel | | | 0.0033 | 0.038 | 0.035 | | | 0.023 | | | 0.002 | 0.0067 | | |
| NCS HC 28228 | Line Steel | | | 0.0044 | 0.0012 | 0.023 | | | 0.023 | | | 0.0013 | 0.0074 | | |

Section 1 Iron, Steel & Alloy(Chip)

3)Low Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
|-------------|---------------------------------------|-------------------------------|--------|--------|--------|--------|-------|--------|-------|---------|---------|----------|---------------------|--------|---------------------|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCSHC29215 | Bearing Steel | 0.992 | 0.396 | 0.291 | 0.031 | 0.030 | 0.362 | 0.067 | 0.019 | 0.009 | | 0.0086 | 0.090 | 0.010 | 150 | |
| NCSHC29216 | Bearing Steel | 0.909 | 0.168 | 1.01 | 0.0202 | 0.0051 | 1.00 | 0.066 | 0.046 | 0.188 | | 0.011 | 0.013 | 0.013 | 150 | |
| | | | B | Sn | As | Sb | Pb | Bt | | | | | | | | |
| NCSHC29215 | Bearing Steel | | 0.018 | 0.0078 | 0.0013 | 0.0005 | | | | | | | | | | |
| NCSHC29216 | Bearing Steel | | 0.0057 | 0.013 | 0.0020 | 0.0011 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | W | | | | | |
| NCSHC30201 | 40Cr | 0.42 | 0.325 | 0.614 | 0.0206 | 0.0123 | 0.96 | | 0.222 | | | | | | 150 | |
| NCSHC30202 | 60Si ₂ Ni ₂ | 0.613 | 1.71 | 0.628 | 0.0213 | 0.009 | 0.239 | 1.54 | 0.218 | | | | | | 150 | |
| NCSHC30204 | 60Si ₂ MnW | 0.638 | 1.502 | 0.834 | 0.0124 | 0.0258 | 0.132 | 0.0525 | 0.16 | | 0.928 | | | | 150 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | W | Mo | Co | Sn | | |
| NCSHC31202 | 30CrMoSiA | 0.313 | 1.245 | 0.952 | 0.0147 | 0.010 | 1.05 | | | | | | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCSHC41202 | GCr15 | 0.982 | 0.301 | 0.282 | 0.014 | 0.0061 | 1.52 | 0.42 | 0.064 | Al0.040 | 0.002 | 0.0073 | 0.0049 | 0.010 | 150 | |
| NCSHC41203 | GCr ₁₅ SiMn | 1.01 | 0.529 | 1.11 | 0.0135 | 0.005 | 1.50 | | | | 0.005 | | | | 150 | |
| NCSHC41204 | Silicon Steel | 0.054 | 2.33 | 0.183 | 0.017 | 0.0325 | | | | 0.008 | Al0.005 | | | | 150 | |
| NCSHC41205 | Silicon Steel | 0.049 | 3.27 | 0.245 | 0.012 | 0.005 | | | | 0.024 | Al0.006 | | | | 150 | |
| NCSHC41206 | Silicon Steel | 0.050 | 4.38 | 0.091 | 0.0095 | 0.002 | | | | 0.028 | Al0.002 | | | | 150 | |
| NCSHC41207 | 20Cr | 0.244 | 0.304 | 0.668 | 0.0155 | 0.010 | 0.881 | | | | 0.002 | | | | 100 | |
| NCSHC41208 | 40Cr | 0.443 | 0.282 | 0.795 | 0.0265 | 0.0105 | 1.004 | | | | 0.003 | | | | 100 | |
| NCSHC41209 | 45CrV | 0.425 | 0.277 | 0.667 | 0.024 | 0.0090 | 0.973 | 0.083 | 0.146 | | 0.175 | | | | 150 | |
| NCSHC41210 | 45CrNiMoV | 0.446 | 0.239 | 0.680 | 0.018 | 0.014 | 1.00 | 1.56 | 0.057 | | 0.150 | | 0.013 | 0.286 | 150 | |
| NCSHC41211 | 40CrMo | 0.398 | 0.303 | 0.612 | 0.0225 | 0.012 | 1.11 | 0.139 | 0.162 | | 0.006 | | 0.016 | 0.229 | 150 | |
| NCSHC41212 | 38SiMnMo | 0.411 | 1.33 | 1.31 | 0.0205 | 0.010 | | | | | | | | 0.254 | 150 | |
| NCSHC41213 | W4Cr ₂ MoVSiAl | 0.473 | 0.970 | 0.167 | 0.018 | 0.0051 | 1.47 | | | | 1.05 | | 3.85 | 1.29 | 150 | |
| NCSHC41214 | 18Cr ₂ ni ₄ W | 1.45 | 0.311 | 0.402 | 0.100 | 0.0060 | 1.45 | 4.32 | | | 0.0028 | | 0.85 | | 150 | |
| NCSHC41215 | 20MnMo | 0.205 | 0.317 | 1.37 | 0.021 | 0.0079 | 0.137 | | 0.129 | 0.028 | 0.002 | Al0.0017 | 0.016 | 0.295 | 150 | |
| NCSHC41216 | 25CrMoV | 0.235 | 0.246 | 0.703 | 0.0072 | 0.0016 | 1.07 | | 0.027 | 0.0011 | 0.294 | Al0.0029 | 0.0074 | 1.03 | 150 | |
| NCSHC41217 | 26Cr ₂ Ni ₄ MoV | 0.237 | 0.011 | 0.240 | 0.0062 | 0.0062 | 1.62 | 3.87 | 0.038 | 0.0005 | 0.092 | Al0.0003 | 0.002 | 0.367 | 150 | |
| NCSHC41218 | 5CrW ₂ Si | 0.489 | 0.633 | 0.263 | 0.017 | 0.0032 | 1.09 | 0.058 | 0.082 | | 0.001 | | 2.21 | 0.051 | 150 | |
| NCSHC41219b | 35CrMo | 0.368 | 0.288 | 0.534 | 0.014 | 0.0085 | 0.934 | 0.051 | 0.164 | | | | | 0.156 | 100 | |
| NCSHC41220 | 20CrMoA | 0.188 | 0.272 | 0.538 | 0.0165 | 0.0063 | 0.931 | 0.130 | 0.086 | 0.011 | 0.002 | Al0.0049 | | 0.202 | 150 | |
| NCSHC41221 | 25CrMoNiSiA | 0.309 | 1.08 | 1.14 | 0.0145 | 0.0060 | 1.13 | 1.62 | 0.087 | | 0.004 | | | | 150 | |
| NCSHC41222 | 40CrNiMoA | 0.447 | 0.329 | 0.693 | 0.0155 | 0.0145 | 0.741 | 1.31 | 0.197 | 0.008 | 0.003 | Al0.005 | | 0.179 | 150 | |
| NCSHC41223 | 20MnV | 0.184 | 0.306 | 1.44 | 0.025 | 0.0154 | 0.035 | 0.026 | 0.079 | | 0.108 | | | | 150 | |
| NCSHC41224 | 60Si ₂ Mn | 0.603 | 1.76 | 0.710 | 0.019 | 0.011 | | | | | (0.003) | | | | 150 | |
| NCSHC41226 | 5CrMnMo | 0.559 | 0.420 | 1.44 | 0.014 | 0.0080 | 0.743 | 0.035 | 0.090 | 0.005 | 0.0055 | 0.0033 | | 0.237 | 150 | |
| NCSHC41227 | 9CrSi | 0.858 | 1.31 | 0.427 | 0.012 | 0.0071 | 0.976 | 0.032 | 0.067 | 0.014 | 0.003 | 0.0070 | | 0.0077 | 150 | |
| NCSHC41228 | CrWMn | 1.00 | 0.238 | 0.925 | 0.0190 | 0.0036 | 1.08 | 0.049 | 0.074 | | 0.003 | | 1.40 | | 150 | |
| NCSHC41229 | 35CrMoV | 0.347 | 0.263 | 0.520 | 0.205 | 0.0062 | 1.14 | 0.059 | 0.070 | Al0.009 | 0.145 | 0.0017 | 0.033 | 0.259 | 100 | |
| NCSHC41230 | 38CrMoAl | 0.395 | 0.312 | 0.441 | 0.0140 | 0.0028 | 1.53 | 0.183 | 0.067 | 0.933 | 0.022 | 0.0018 | 0.0078 | 0.178 | 100 | |
| NCSHC41231 | 20CrMnTi | 0.187 | 0.294 | 0.921 | 0.020 | 0.0075 | 1.10 | | | | | 0.054 | | | 150 | |

Section 1 Iron, Steel & Alloy(Chip)

3)Low Alloy Steel

| | | Co | Nb | Sn | As | Sb | Pb | N | | |
|--------------|---------------------------------------|-------------------------------|-------|--------|--------|---------|---------|--------|-------|-----------|
| NCS HC 41202 | GCr15 | 0.11 | | 0.011 | 0.006 | 0.0013 | | | | |
| NCS HC 41215 | 20MnMo | 0.0090 | | 0.018 | 0.0090 | 0.0030 | 0.00056 | 0.0092 | | |
| NCS HC 41216 | 25CrMoV | 0.0053 | | 0.0029 | 0.0041 | 0.00097 | 0.00006 | 0.0065 | | |
| NCS HC 41217 | 26Cr ₂ Ni ₄ MoV | 0.006 | | 0.0066 | 0.0038 | 0.0019 | 0.00003 | 0.0048 | | |
| NCS HC 41220 | 20CrMoA | | | | 0.0077 | | | | | |
| NCS HC 41222 | 40CrNiMoA | | | | 0.010 | | | | | |
| NCS HC 41226 | 5CrMnMo | 0.0083 | | 0.0081 | 0.010 | 0.0022 | | 0.0067 | | |
| NCS HC 41227 | 9CrSi | 0.0070 | | 0.011 | 0.0085 | 0.0020 | | 0.0062 | | |
| NCS HC 41228 | CrWMn | 0.010 | | 0.010 | 0.010 | | | | | |
| NCS HC 41229 | 35CrMoV | 0.012 | | 0.0030 | 0.013 | 0.0012 | | 0.012 | | |
| NCS HC 41230 | 38CrMoAl | 0.011 | | 0.011 | 0.0065 | 0.0014 | | 0.008 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | (in g) |
| NCS HC 37201 | 40Cr | 0.414 | 0.220 | 0.638 | 0.026 | 0.026 | 0.969 | 0.038 | 0.135 | 100 |
| NCS HC 37202 | 20Cr | 0.233 | 0.356 | 0.683 | 0.023 | 0.017 | 0.907 | 0.084 | 0.124 | 100 |
| NCS HC 37203 | 50Cr | 0.527 | 0.312 | 0.599 | 0.018 | 0.027 | 0.833 | 0.046 | 0.126 | 100 |

Section 1 Iron, Steel & Alloy(Chip)

4)Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
|---------------|---|-------------------------------|-------|-------|-------|--------|-------|-------|-------|--------|-------|--------|-------|-------|-----|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 11301 | Cr ₁₈ Mn ₁₀ Ni ₅ Mo ₃ | 0.059 | 0.94 | 10.03 | 0.018 | 0.003 | 17.82 | 5.72 | | | | | | 2.92 | 100 | |
| NCS HC 11302 | 4Cr ₃ Si ₄ | 0.46 | 4.01 | 0.52 | 0.035 | 0.010 | 3.08 | 0.40 | | | | | | | 100 | |
| NCS HC 11303 | Cr ₂₀ Al ₅ Co ₂ | 0.08 | 0.70 | 0.48 | 0.019 | | 20.09 | 0.51 | | 5.35 | | | | | 100 | |
| NCS HC 11304 | Cr ₂₄ AlSi | 0.11 | 1.34 | 1.08 | 0.020 | | 23.27 | 0.13 | | 2.08 | | | | | 100 | |
| NCS HC 11307 | Cr ₁₃ Ni ₅ Mn ₉ | 0.19 | 0.69 | 9.94 | 0.099 | 0.009 | 12.49 | 4.86 | 0.031 | | | | | | 100 | |
| NCS HC 11307a | Cr ₁₃ Ni ₅ Mn ₉ | 0.17 | 0.47 | 8.14 | 0.043 | 0.021 | 12.07 | 5.02 | 0.031 | | 0.022 | | | | 100 | |
| NCS HC 11308 | Cr ₁₃ Al ₄ | 0.11 | 1.43 | 0.61 | 0.018 | | 13.54 | 0.10 | 0.019 | 4.05 | | | | | 100 | |
| NCS HC 11309 | Cr ₁₇ Al ₄ Si | 0.09 | 1.95 | 0.55 | 0.019 | | 17.32 | 0.13 | 0.019 | 3.34 | | | | | 100 | |
| NCS HC 11310 | Cr ₂₅ Al ₅ | 0.094 | 1.86 | 0.51 | 0.020 | | 26.96 | 0.20 | 0.019 | 3.54 | | | | | 100 | |
| NCS HC 11311 | Cr ₂₀ Ni ₁₁ Mn ₆ | 0.19 | 0.71 | 6.52 | 0.022 | | 19.32 | 11.18 | 0.044 | | | | | | 100 | |
| NCS HC 11312 | Cr ₁₈ Ni ₁₄ Mo ₃ Ti | 0.28 | 0.56 | 1.73 | 0.018 | 0.004 | 17.13 | 14.21 | | | 0.369 | | 3.38 | | 100 | |
| NCS HC 11313 | Cr ₁₂ | 2.03 | 0.306 | 0.268 | 0.021 | 0.012 | 12.34 | 0.102 | 0.100 | | | | | | 100 | |
| NCS HC 11314 | 1Cr ₁₈ Ni ₆ Ti | 0.093 | 0.841 | 1.42 | 0.030 | 0.0049 | 17.61 | 9.77 | 0.098 | | 0.041 | 0.320 | | | 100 | |
| NCS HC 11316 | High Manganese Steel | 1.11 | 0.683 | 13.95 | 0.044 | 0.0070 | 0.295 | 0.189 | 0.073 | | 0.074 | | | | 100 | |
| NCS HC 11317 | Cr ₁₈ Ni ₁₁ Nb | 0.10 | 1.06 | 1.61 | 0.024 | 0.042 | 17.31 | 11.25 | 0.22 | | | | | | 100 | |
| NCS HC 11318 | 3Cr ₁₃ | 0.31 | 0.57 | 0.35 | 0.057 | 0.008 | 13.27 | 0.11 | | | | | | | 100 | |
| NCS HC 11319 | 4Cr ₅ Si ₂ | 0.327 | 2.36 | 0.896 | 0.018 | 0.0084 | 9.11 | 0.129 | 0.068 | | | | | | 100 | |
| NCS HC 11320 | Cr ₂₄ Ni ₇ SiN | 0.26 | 1.29 | 1.21 | 0.018 | 0.0085 | 24.45 | | | | | | 0.007 | | 100 | |
| NCS HC 11321 | Cr ₇ Al ₇ | 0.12 | 1.02 | 0.47 | 0.011 | | 7.68 | | | 7.99 | | | | | 100 | |
| NCS HC 11321a | Cr ₇ Al ₇ | 0.15 | 0.66 | 0.73 | 0.037 | 0.037 | 7.09 | 0.52 | | 7.06 | | | | | 100 | |
| NCS HC 11322 | Stainless Steel | 0.084 | 0.788 | 1.62 | 0.029 | 0.0021 | 25.53 | 20.72 | 0.179 | 0.0018 | 0.046 | 0.0027 | 0.343 | 0.305 | 100 | |
| NCS HC 11324 | Stainless Steel | 0.060 | 0.762 | 1.14 | 0.021 | 0.0047 | 17.07 | 12.10 | 0.073 | 0.086 | 0.037 | 0.321 | 0.096 | 2.93 | 100 | |
| NCS HC 11325 | Stainless Steel | 0.315 | 2.00 | 2.42 | 0.004 | 0.006 | 28.30 | 23.99 | 0.651 | 0.006 | 0.510 | 0.050 | 0.003 | 0.495 | 100 | |
| NCS HC 11326 | Stainless Steel | 0.094 | 0.165 | 0.722 | 0.038 | 0.015 | 24.01 | 4.33 | 0.060 | 1.78 | 0.038 | 0.140 | 0.105 | 1.05 | 100 | |
| NCS HC 11327 | Stainless Steel | 0.052 | 0.515 | 0.851 | 0.014 | 0.016 | 19.98 | 7.43 | 0.820 | 0.549 | 0.140 | 0.398 | 0.301 | 0.110 | 100 | |
| NCS HC 11329 | Stainless Steel | 0.018 | 0.100 | 0.135 | 0.058 | 0.030 | 15.40 | 15.51 | 0.360 | 1.18 | 0.069 | 0.499 | 0.860 | 0.300 | 100 | |
| NCS HC 11330 | Stainless Steel | 0.205 | 1.39 | 1.95 | 0.010 | 0.050 | 11.61 | 20.10 | 3.12 | 0.045 | 0.215 | 0.580 | 0.093 | 3.25 | 100 | |
| | | | Co | Nb | N | Sn | As | Pb | | | | | | | | |
| NCS HC 11301 | Cr ₁₈ Mn ₁₀ Ni ₅ Mo ₃ | | | | 0.022 | | | | | | | | | | | |
| NCS HC 11303 | Cr ₂₀ Al ₅ Co ₂ | 2.02 | | | | | | | | | | | | | | |
| NCS HC 11307a | Cr ₁₃ Ni ₅ Mn ₉ | 0.027 | | | | | | | | | | | | | | |
| NCS HC 11317 | Cr ₁₈ Ni ₁₁ Nb | 0.019 | 0.84 | | | | | | | | | | | | | |
| NCS HC 11320 | Cr ₂₄ Ni ₇ SiN | | | | 0.261 | | | | | | | | | | | |
| NCS HC 11322 | Stainless Steel | 0.140 | | | | | | | | | | | | | | |
| NCS HC 11324 | Stainless Steel | 0.081 | | | | | | | | | | | | | | |
| NCS HC 11325 | Stainless Steel | 0.006 | 0.053 | 0.19 | 0.001 | 0.001 | 0.001 | | | | | | | | | |
| NCS HC 11326 | Stainless Steel | 0.492 | 2.28 | 0.009 | 0.03 | 0.009 | 0.001 | | | | | | | | | |
| NCS HC 11327 | Stainless Steel | 0.200 | 0.520 | 0.11 | 0.02 | 0.020 | 0.001 | | | | | | | | | |
| NCS HC 11329 | Stainless Steel | 0.290 | 0.156 | 0.013 | 0.005 | 0.008 | 0.001 | | | | | | | | | |
| NCS HC 11330 | Stainless Steel | 0.070 | 1.33 | 0.013 | 0.01 | 0.004 | 0.001 | | | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

4)Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | | |
|--------------|--------------------------------------|-------------------------------|---------|----------|----------|----------|--------|--------|--------|--------|--------|-------|-------|-------|---------------------|--|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | Ti | Mo | N | Co | | | |
| NCS HC 13302 | High Manganese Steel | 1.28 | 0.48 | 12.68 | 0.063 | 0.017 | | | | | | | | | 150 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | Ti | Mo | N | Co | | | |
| NCS HC 15302 | 0Cr ₁₃ | 0.057 | 0.344 | 0.362 | 0.048 | 0.008 | 15.66 | 0.293 | 0.028 | 0.238 | 0.0065 | 0.085 | | | 100 | | |
| NCS HC 15307 | 2Cr ₁₃ | 0.181 | 0.424 | 0.482 | 0.0194 | 0.012 | 12.45 | 0.142 | 0.020 | 0.103 | 0.0068 | | | 100 | | | |
| NCS HC 15308 | 1Cr ₁₈ Ni ₉ Ti | 0.053 | 0.630 | 0.971 | 0.0214 | 0.006 | 17.35 | 10.13 | | 0.15 | 0.69 | | | 100 | | | |
| NCS HC 15309 | Cr ₂₃ Ni ₁₃ | 0.100 | 0.667 | 1.24 | 0.0151 | 0.007 | 22.11 | 14.60 | | | | | | 100 | | | |
| NCS HC 15310 | Stainless Steel | 0.023 | 0.659 | 1.16 | 0.030 | 0.0019 | 17.35 | 11.13 | 0.314 | | | 2.12 | 0.046 | 0.104 | 100 | | |
| NCS HC 15311 | alloy steel | 0.838 | 1.05 | 8.00 | 0.038 | 0.020 | 20.50 | 0.821 | 0.145 | | 0.275 | 1.98 | 0.026 | | 100 | | |
| NCS HC 15312 | alloy steel | 0.170 | 0.684 | 16.13 | 0.020 | 0.0047 | 8.74 | 3.47 | 1.17 | | 0.405 | 3.15 | 0.020 | | 100 | | |
| NCS HC 15313 | alloy steel | 0.443 | 0.481 | 1.77 | 0.020 | 0.019 | 29.22 | 1.23 | 0.065 | | 0.545 | 0.185 | 0.023 | | 100 | | |
| NCS HC 15314 | alloy steel | 0.028 | 0.034 | 0.100 | 0.0066 | 0.0065 | 11.53 | 15.01 | 2.03 | | 0.0024 | 0.511 | 0.025 | | 100 | | |
| NCS HC 15315 | alloy steel | 0.116 | 0.675 | 1.14 | 0.030 | 0.095 | 22.93 | 7.03 | 0.209 | | 0.117 | 0.151 | 0.065 | | 100 | | |
| | | Nb | Ca | B | Sn | As | Pb | Alt | Als | Bi | | | | | | | |
| NCS HC 15310 | Stainless Steel | | | | | | | 0.0039 | 0.0034 | | | | | | | | |
| NCS HC 15311 | alloy steel | 0.205 | 0.00054 | 0.0019 | 0.0011 | 0.0116 | 0.0019 | 0.190 | 0.187 | 0.0029 | | | | | | | |
| NCS HC 15312 | alloy steel | 0.613 | 0.0010 | 0.011 | 0.023 | 0.0043 | 0.0020 | 0.040 | 0.038 | 0.0014 | | | | | | | |
| NCS HC 15313 | alloy steel | 0.024 | 0.0003 | 0.0015 | 0.0058 | 0.0050 | 0.0003 | 0.403 | 0.401 | 0.0013 | | | | | | | |
| NCS HC 15314 | alloy steel | 0.037 | 0.0002 | 0.0004 | 0.058 | 0.0015 | 0.0058 | 0.0066 | 0.0051 | 0.0004 | | | | | | | |
| NCS HC 15315 | alloy steel | 0.062 | 0.0004 | 0.0008 | 0.0070 | 0.0035 | 0.0020 | 0.021 | 0.019 | 0.0016 | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | | |
| | | C | Mn | Si | P | S | Ni | Cr | Cu | Mo | Ti | Co | Al | V | | | |
| NCS HC 41313 | Stainless steel | 0.085 | 1.63 | 1.29 | 0.025 | 0.016 | 9.95 | 16.98 | 0.940 | 2.74 | 0.418 | 0.300 | 0.585 | 0.036 | 100 | | |
| NCS HC 41314 | Stainless steel | 0.037 | 0.615 | 1.10 | 0.017 | 0.0040 | 4.04 | 15.67 | 2.97 | 0.983 | 0.147 | 0.105 | 0.111 | 0.021 | 100 | | |
| NCS HC 41315 | Stainless steel | 0.122 | 0.927 | 1.85 | 0.031 | 0.022 | 19.27 | 24.56 | 0.293 | 0.396 | 0.077 | 0.194 | 0.514 | 0.057 | 100 | | |
| NCS HC 41316 | Stainless steel | 0.023 | 0.860 | 0.390 | 0.032 | 0.00086 | 8.22 | 18.35 | 0.617 | 0.209 | 0.0060 | 0.128 | | 0.066 | 100 | | |
| NCS HC 41317 | Stainless steel | 0.053 | 1.03 | 0.571 | 0.032 | 0.00071 | 9.19 | 17.17 | 0.383 | 0.154 | 0.309 | 0.132 | | 0.059 | 100 | | |
| NCS HC 41318 | Stainless steel | 0.023 | 1.25 | 0.421 | 0.030 | 0.0013 | 4.85 | 22.26 | 0.136 | 3.11 | 0.0014 | 0.047 | | 0.038 | 100 | | |
| | | N | Nb | Sn | W | As | | | | | | | | | | | |
| NCS HC 41313 | Stainless steel | 0.029 | | (0.0034) | (0.017) | (0.0042) | | | | | | | | | | | |
| NCS HC 41314 | Stainless steel | 0.042 | 0.437 | (0.0018) | (0.0014) | (0.0032) | | | | | | | | | | | |
| NCS HC 41315 | Stainless steel | 0.072 | | (0.0057) | (0.010) | (0.0035) | | | | | | | | | | | |
| NCS HC 41316 | Stainless steel | | 0.011 | 0.022 | 0.024 | 0.0061 | | | | | | | | | | | |
| NCS HC 41317 | Stainless steel | | 0.0095 | 0.013 | 0.018 | 0.0047 | | | | | | | | | | | |
| NCS HC 41318 | Stainless steel | 0.175 | 0.014 | 0.0032 | 0.011 | 0.0085 | | | | | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

4)Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
|--------------|--|-------------------------------|--------|--------|----------------|--------|-------|-------|-------|--------|--------|--------|--------|--------|---------------------|--|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 20301 | 1Cr ₂₁ | 0.090 | 0.375 | 0.573 | 0.021 | 0.0077 | 12.94 | 0.102 | 0.051 | 0.0037 | 0.022 | 0.0015 | 0.0019 | 0.0088 | 100 | |
| NCS HC 20302 | H00Cr ₂₁ Ni ₁₀ | 0.029 | 0.520 | 1.71 | 0.031 | 0.014 | 20.49 | 9.72 | 0.134 | 0.0035 | 0.034 | 0.0036 | 0.011 | 0.158 | 100 | |
| NCS HC 20306 | 0Cr ₄ Ni ₂₂ | 0.032 | 0.238 | 0.578 | 0.013 | 0.0036 | 4.04 | 22.43 | 0.030 | 0.0024 | 0.0047 | 0.0018 | 0.001 | 0.0019 | 100 | |
| NCS HC 20307 | 1Cr ₁₁ Ni ₅ Mn ₅ Mo ₃ Al | 0.069 | 0.470 | 4.76 | 0.031 | 0.011 | 11.54 | 4.54 | 0.121 | 0.63 | 0.020 | 0.010 | 0.023 | 3.09 | 100 | |
| NCS HC 20311 | 1Cr ₁₈ Ni ₉ Ti | 0.079 | 0.878 | 1.42 | 0.028 | 0.0095 | 17.92 | 8.83 | 0.113 | 0.125 | 0.062 | 0.561 | 0.014 | 0.172 | 100 | |
| NCS HC 20312 | YoCr ₁₈ Ni ₉ MoS ₁ | 0.071 | 0.619 | 1.60 | 0.031 | 0.061 | 17.66 | 8.48 | 0.222 | 0.0043 | 0.033 | | 0.022 | 0.502 | 100 | |
| NCS HC 20313 | Ni ₂₅ Cr ₁₈ Mo ₂ Cu ₂ | 0.082 | 0.465 | 0.526 | 0.027 | 0.0050 | 17.37 | 26.44 | 1.71 | 0.0099 | 0.023 | | 0.031 | 2.63 | 100 | |
| | | Co | Sn | As | N | | | | | | | | | | | |
| NCS HC 20301 | 1Cr ₁₃ | 0.021 | 0.0056 | 0.0091 | | | | | | | | | | | | |
| NCS HC 20302 | H00Cr ₂₁ Ni ₁₀ | 0.369 | 0.0060 | 0.0088 | | | | | | | | | | | | |
| NCS HC 20306 | 0Cr ₄ Ni ₂₂ | 0.011 | 0.0022 | 0.0026 | 0.011 | | | | | | | | | | | |
| NCS HC 20307 | 1Cr ₁₁ Ni ₅ Mn ₅ Mo ₃ Al | 0.044 | 0.015 | 0.0093 | 0.040 | | | | | | | | | | | |
| NCS HC 20311 | 1Cr ₁₈ Ni ₉ Ti | 0.086 | 0.010 | 0.0071 | | | | | | | | | | | | |
| NCS HC 20312 | YoCr ₁₈ Ni ₉ MoS ₁ | 0.176 | 0.012 | 0.0073 | | | | | | | | | | | | |
| NCS HC 20313 | Ni ₂₅ Cr ₁₈ Mo ₂ Cu ₂ | 0.097 | 0.0070 | 0.0052 | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 21301 | 1Cr ₁₇ Ni ₂ Ti | 0.126 | 0.560 | 0.563 | 0.0126 | 0.017 | 16.66 | 1.95 | 0.107 | | | | | | 100 | |
| NCS HC 21302 | R00Cr ₁₈ Mo ₂ Ca | 0.019 | 0.845 | 0.286 | 0.0284 | 0.0141 | 17.45 | 0.235 | 0.082 | | 0.027 | | | 2.11 | 100 | |
| NCS HC 21305 | Cr ₁₂ | 2.223 | 0.171 | 0.146 | 0.0226 | 0.0094 | 12.18 | 0.095 | 0.041 | | 0.030 | | 0.028 | 0.0067 | 100 | |
| NCS HC 21306 | 2Cr ₁₃ | 0.200 | 0.177 | 0.501 | 0.0238 | 0.0160 | 12.49 | 0.256 | 0.009 | | 0.0167 | | 0.016 | 0.0219 | 100 | |
| | | Co | Sn | As | Pb | N | Ca | | | | | | | | | |
| NCS HC 21302 | R00Cr ₁₈ Mo ₂ Ca | 0.0048 | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | C | Mn | P | S | Si | Ni | Cr | Cu | Mo | W | Als | Alt | As | | |
| NCS HC 21309 | Shape Memory Alloy | 0.026 | 15.95 | 0.027 | 0.0008 | 5.21 | 6.69 | 12.04 | 0.086 | 0.257 | 0.099 | 0.047 | | | 100 | |
| | | Co | Ti | V | Sn | Nb | | | | | | | | | | |
| NCS HC 21309 | Shape Memory Alloy | 0.031 | 0.015 | 0.035 | 0.0064 | 0.108 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 23301 | 18Cr ₂ Ni ₄ W | 0.171 | 0.273 | 0.486 | 0.0215 | 0.0188 | 1.726 | 4.22 | | | | | | 0.994 | 150 | |
| NCS HC 23302 | 17Mn ₂₅ Al | 0.14 | 0.51 | 25.08 | 0.030 | 0.029 | | | | | | 5.04 | 150 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 24312 | Cr ₁₄ Mo ₅ VRE | 1.067 | 0.254 | 0.098 | 0.014 | 0.0036 | 14.83 | | | | | | 1.35 | 4.06 | 100 | |
| | | Co | Nb | Fe | R _E | | | | | | | | | | | |
| NCS HC 24312 | Cr ₁₄ Mo ₅ VRE | 0.041 | | | | | | | | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

4)Alloy Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
|---------------|---|-------------------------------|----------|--------|--------|--------|--------|--------|--------|----------|--------|--------|--------|-------|-----|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | W | Mo | Sn | Als | V | | |
| NCS HC 28302 | Stainless steel | 0.049 | 0.583 | 0.876 | 0.024 | 0.0057 | 17.23 | 9.47 | 0.063 | 0.0034 | 0.042 | 0.0036 | 0.033 | 0.042 | 100 | |
| NCS HC 28303 | Stainless steel | 0.196 | 0.776 | 0.324 | 0.017 | 0.0043 | 12.24 | 0.086 | 0.012 | 0.022 | 0.0034 | | | 0.024 | 100 | |
| NCS HC 28304 | Die Steel | 0.407 | 1.06 | 0.315 | 0.015 | 0.013 | 5.08 | 0.037 | 0.017 | (0.0038) | 1.20 | | 0.0056 | 0.946 | 100 | |
| NCS HC 28305 | Stainless steel | 0.322 | 0.613 | 0.83 | 0.018 | 0.017 | 8.63 | 0.148 | 0.47 | 0.004 | 0.016 | 0.0037 | 0.023 | 0.014 | 100 | |
| NCS HC 28306 | Stainless steel | 0.329 | 0.397 | 0.433 | 0.018 | 0.027 | 11.95 | 2.66 | 0.08 | 0.0031 | 0.026 | 0.0049 | 0.0019 | 0.016 | 100 | |
| NCS HC 28307 | Stainless Steel | 0.193 | 0.905 | 0.49 | 0.022 | 0.01 | 19.4 | 6.48 | 0.079 | 0.0052 | 0.021 | 0.0028 | 0.034 | 0.029 | 100 | |
| NCS HC 28308 | Heat resisting alloy | 0.392 | 2.41 | 0.508 | 0.019 | 0.022 | 10.09 | 0.247 | 0.093 | 0.0065 | 1.09 | 0.0047 | 0.0031 | 0.015 | 100 | |
| NCS HC 28309 | Heat resisting alloy | 0.54 | 0.433 | 0.321 | 0.016 | 0.014 | 14.75 | 13.68 | 0.079 | 1.88 | 0.466 | 0.0052 | 0.035 | 0.024 | 100 | |
| NCS HC 28310 | Heat resisting alloy | 0.157 | 0.827 | 0.8 | 0.021 | 0.023 | 13.31 | 13.9 | 0.03 | 2.75 | 0.24 | 0.004 | 0.067 | 0.02 | 100 | |
| NCS HC 28311 | Heat resisting alloy | 0.182 | 0.865 | 0.37 | 0.019 | 0.025 | 17.3 | 1.33 | 0.074 | 0.0032 | 0.023 | 0.004 | 0.0025 | 0.021 | 100 | |
| NCS HC 28312 | Heat resisting alloy | 0.178 | 0.542 | 2.37 | 0.023 | 0.0084 | 22.71 | 16.2 | 0.058 | 0.0034 | 0.0071 | 0.0023 | 0.045 | 0.031 | 100 | |
| | | Co | As | Ti | Alis | Alt | B | Zn | Sb | | | | | | | |
| NCS HC 28302 | Stainless steel | 0.041 | 0.0041 | 0.233 | | | | | | | | | | | | |
| NCS HC 28303 | Stainless steel | 0.018 | 0.0022 | 0.0011 | | | | | | | | | | | | |
| NCS HC 28304 | Die Steel | 0.011 | (0.0021) | 0.0049 | 0.0040 | 0.0096 | | | | | | | | | | |
| NCS HC 28305 | Stainless steel | 0.019 | 0.0054 | 0.076 | | 0.027 | 0.0002 | 0.0034 | 0.0018 | | | | | | | |
| NCS HC 28306 | Stainless steel | 0.057 | 0.0049 | 0.029 | | 0.0073 | | 0.0018 | 0.0016 | | | | | | | |
| NCS HC 28307 | Stainless Steel | 0.095 | 0.0046 | 0.206 | | 0.037 | | 0.0016 | 0.0015 | | | | | | | |
| NCS HC 28308 | Heat resisting alloy | 0.019 | 0.0054 | 0.0032 | | 0.0057 | | 0.0009 | 0.0021 | | | | | | | |
| NCS HC 28309 | Heat resisting alloy | 0.035 | 0.009 | 0.0011 | | 0.038 | 0.0003 | 0.0018 | 0.0016 | | | | | | | |
| NCS HC 28310 | Heat resisting alloy | 0.147 | 0.0041 | 0.0011 | | 0.074 | 0.0004 | 0.005 | 0.0004 | | | | | | | |
| NCS HC 28311 | Heat resisting alloy | 0.051 | 0.0051 | 0.0011 | | 0.0061 | | 0.002 | 0.0016 | | | | | | | |
| NCS HC 28312 | Heat resisting alloy | 0.186 | 0.0038 | 0.051 | | 0.053 | | 0.0036 | 0.0006 | | | | | | | |
| | | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| Number | Name | C | Si | Mn | P | S | Cr | Ni | Al | Ti | Fe | Mo | Cu | V | | |
| NCS HC 29322 | Cr ₁₄ | 0.077 | 1.487 | 13.49 | 0.074 | 0.0166 | 14.00 | 1.63 | | | | | | | 150 | |
| NCS HC 29323 | Cr ₁₃ SiAl | 0.153 | 1.086 | 0.646 | 0.029 | 0.029 | 12.46 | 0.510 | 0.702 | | | | | | 150 | |
| | | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| Number | Name | C | Si | Mn | P | S | Cr | Ni | Mo | | | | | | | |
| NCS HC 37301 | High Manganese Steel | 1.25 | 0.464 | 11.59 | 0.073 | 0.0056 | | | | | | | | | 20 | |
| NCS HC 37302b | High Manganese Steel | 1.26 | 0.595 | 12.00 | 0.079 | 0.013 | | | | | | | | | 20 | |
| NCS HC 37303 | Stainless Steel | 0.032 | 0.78 | 1.45 | 0.026 | 0.019 | 16.14 | 10.30 | 2.28 | | | | | | 100 | |
| NCS HC 37304 | 0Cr ₁₈ Ni ₉ | 0.075 | 0.77 | 1.44 | 0.033 | 0.025 | 8.56 | | | | | | | | 100 | |
| NCS HC 37305 | 0Cr ₁₈ Ni ₁₀ Ti | 0.086 | 0.84 | 1.45 | 0.032 | 0.014 | 17.45 | | | | | | | | 100 | |
| NCS HC 37306 | 1Cr ₁₈ Ni ₉ Ti | 0.134 | 0.021 | 1.06 | 0.033 | 0.021 | 17.01 | | | | | | | | 100 | |
| NCS HC 37307 | 1Cr ₁₃ | 0.144 | 0.56 | 0.71 | 0.038 | 0.028 | 12.07 | | | | | | | | 100 | |
| NCS HC 37308 | 2Cr ₁₃ | 0.232 | 0.82 | 0.80 | 0.042 | 0.027 | 12.42 | | | | | | | | 100 | |
| | | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| Number | Name | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 41301 | Ni ₈₀ Cr ₂₀ | 0.051 | 1.15 | 0.601 | 0.0015 | 0.0023 | 21.50 | 75.10 | 0.012 | 0.080 | | 0.221 | | | 150 | |
| NCS HC 41303 | 6Cr ₄ W ₂ Mo ₂ | 0.600 | 0.980 | 0.968 | 0.023 | 0.0079 | 4.45 | | 0.084 | | 0.938 | | 2.14 | 2.44 | 150 | |
| NCS HC 41307c | 1Cr ₁₈ Ni ₉ Ti | 0.050 | 0.512 | 0.803 | 0.029 | 0.0050 | 18.56 | 9.86 | 0.179 | | 0.057 | 0.473 | 0.057 | 0.151 | 100 | |
| NCS HC 41308 | Cr ₁₂ | 2.20 | 0.258 | 0.312 | 0.22 | 0.0105 | 12.62 | 0.109 | 0.088 | | 0.054 | | | 0.094 | 150 | |
| NCS HC 41309 | 2Cr ₁₃ | 0.334 | 0.519 | 0.211 | 0.025 | 0.0073 | 12.79 | 0.126 | 0.048 | | 0.039 | | | 0.016 | 150 | |
| NCS HC 41310 | CrNi | 0.050 | 0.449 | 1.25 | 0.025 | 0.021 | 18.55 | 9.55 | 0.109 | | 0.033 | | | 0.107 | 150 | |
| | | Co | Sn | As | Sb | N | Fe | Alt | Als | | | | | | | |
| NCS HC 41301 | Ni ₈₀ Cr ₂₀ | | | | | | 1.23 | | | | | | | | | |
| NCS HC 41307c | 1Cr ₁₈ Ni ₉ Ti | 0.052 | 0.017 | 0.0067 | | 0.015 | | 0.083 | 0.084 | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

5)Tool Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
|---------------|---|-------------------------------|-------|-------|--------|--------|-------|--------|-------|-------|-------|-------|---------------------|-------|-----|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | W | Mo | | | |
| NCS HC 11401 | W ₁₈ Cr ₄ V | 0.71 | 0.33 | 0.33 | 0.024 | 0.006 | 4.10 | | | | 1.44 | 16.13 | 0.14 | 150 | |
| NCS HC 11401a | W ₁₈ Cr ₄ V | 0.87 | 0.23 | 0.24 | 0.044 | 0.004 | 3.72 | | | | 1.19 | 19.16 | 0.28 | 150 | |
| NCS HC 11402 | W ₆ Mo ₅ Cr ₄ V ₂ | 0.72 | 0.10 | 0.28 | 0.027 | 0.007 | 3.90 | | | | 2.09 | 6.77 | 4.88 | 150 | |
| NCS HC 11403 | Cr ₁₂ W | 2.00 | 0.297 | 0.294 | 0.049 | 0.0053 | 11.71 | 0.113 | | | | 0.96 | | 150 | |
| NCS HC 11403a | Cr ₁₂ W | 1.96 | 0.18 | 0.31 | 0.048 | 0.088 | 11.99 | 0.12 | 0.061 | | | 0.97 | | 150 | |
| NCS HC 11404 | 5CrNiMo | 0.52 | 0.16 | 0.56 | 0.020 | 0.005 | 0.57 | 1.55 | | | | | 0.20 | 150 | |
| NCS HC 11405 | W ₂ | 1.14 | 0.274 | 0.287 | 0.014 | 0.0046 | 0.183 | 0.073 | 0.040 | | | 2.31 | | 150 | |
| NCS HC 11405a | W ₂ | 1.25 | 0.16 | 0.38 | 0.035 | | 0.14 | 0.18 | | | | 2.27 | | 150 | |
| NCS HC 11406 | 6SiMnW | 0.65 | 1.23 | 0.65 | 0.017 | 0.016 | 0.026 | | | | | 1.42 | | 150 | |
| NCS HC 11406a | 6SiMnW | 0.64 | 0.97 | 0.75 | 0.011 | 0.009 | | 0.23 | 0.032 | | | 1.44 | | 150 | |
| NCS HC 11407 | 3W ₄ Cr ₂ V | 0.34 | 0.30 | 0.11 | 0.013 | 0.009 | 2.44 | 0.087 | 0.034 | 0.65 | | 3.61 | | 150 | |
| NCS HC 11408 | 9V | 1.07 | 0.18 | 0.44 | 0.044 | 0.006 | | 0.24 | | | | 0.41 | | 150 | |
| NCS HC 11409 | SiMnV | 1.42 | 0.64 | 0.74 | 0.052 | 0.033 | | 0.27 | | | | 0.31 | | 150 | |
| NCS HC 11410 | 9Mn ₂ V | 0.84 | 0.23 | 2.02 | 0.051 | 0.006 | 0.10 | 0.034 | | | | 0.16 | | 150 | |
| NCS HC 11411 | 5CrW ₂ Si | 0.50 | 0.60 | 0.40 | 0.030 | 0.031 | 1.15 | 0.14 | 0.048 | | | | 2.30 | 150 | |
| NCS HC 11412 | T ₇ | 0.66 | 0.27 | 0.66 | 0.030 | 0.019 | 0.31 | 0.24 | 0.023 | | | | | 150 | |
| NCS HC 11412a | T ₇ | 0.70 | 0.26 | 0.79 | 0.035 | 0.028 | 0.005 | 0.019 | 0.024 | | | | | 150 | |
| NCS HC 11412b | T ₇ | 0.72 | 0.34 | 0.18 | 0.013 | 0.003 | | 0.013 | 0.024 | | | | | 150 | |
| NCS HC 11413 | T ₈ | 0.79 | 0.25 | 0.28 | 0.029 | 0.007 | | | | | | | | 150 | |
| NCS HC 11413a | T ₈ | 0.82 | 0.30 | 0.78 | 0.021 | 0.015 | | | | | | | | 150 | |
| NCS HC 11414 | T ₁₀ | 1.05 | 0.33 | 0.41 | 0.011 | 0.009 | 0.63 | 0.021 | 0.022 | 0.23 | | | | 150 | |
| NCS HC 11415 | T ₁₁ | 1.15 | 0.24 | 0.34 | 0.019 | 0.005 | 0.050 | 0.039 | 0.023 | | | | | 150 | |
| NCS HC 11416 | T ₁₂ | 1.20 | 0.21 | 0.19 | 0.012 | 0.009 | 0.044 | 0.030 | 0.095 | | | | | 150 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| NCS HC 13401 | T ₈ A | 0.81 | 0.18 | 0.23 | 0.013 | 0.0065 | | | | | | | | 150 | |
| NCS HC 13402 | T ₁₃ A | 1.26 | 0.25 | 0.28 | 0.018 | 0.0105 | | | | | | | | 150 | |
| NCS HC 13403 | T ₁₁ A | 1.155 | 0.46 | 1.14 | 0.043 | 0.038 | | | | | | | | 150 | |
| NCS HC 13404 | T ₁₂ A | 1.18 | 0.32 | 0.70 | 0.010 | 0.0065 | | | | | | | | 150 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| NCS HC 14401 | T ₈ | 0.785 | 0.563 | 0.614 | 0.0115 | 0.029 | 0.064 | | | | | | | 150 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| NCS HC 17401 | W ₁₈ Cr ₄ V | 0.762 | 0.241 | 0.280 | 0.0241 | 0.026 | 4.03 | 0.040 | 0.038 | | 1.30 | 18.16 | 0.245 | 100 | |
| NCS HC 17402 | W ₆ Mo ₅ Cr ₄ V ₂ | 0.855 | 0.232 | 0.275 | 0.0261 | 0.011 | 4.08 | 0.046 | 0.041 | | 2.02 | 5.99 | 4.84 | 100 | |
| NCS HC 17403 | 3Cr ₂ W ₈ V | 0.359 | 0.170 | 0.298 | 0.0211 | 0.021 | 2.48 | 0.0208 | 0.030 | | 0.27 | 8.39 | 0.055 | 100 | |
| NCS HC 17405 | High Speed Steel | 0.941 | 0.521 | 0.441 | 0.023 | 0.028 | 1.99 | 0.095 | | | 0.18 | 19.22 | 0.122 | 100 | |
| NCS HC 17406 | High Speed Steel | 0.78 | 0.230 | 0.427 | 0.024 | 0.020 | 3.64 | 0.134 | | | 0.44 | 18.72 | 0.176 | 100 | |
| NCS HC 17407 | High Speed Steel | 0.710 | 0.183 | 0.268 | 0.029 | 0.0064 | 4.29 | 0.187 | | | 1.05 | 17.64 | 0.266 | 100 | |
| NCS HC 17408 | High Speed Steel | 0.577 | 0.383 | 0.233 | 0.015 | 0.0043 | 2.70 | 0.231 | | | 0.81 | 16.24 | 0.330 | 100 | |
| NCS HC 17409 | High Speed Steel | 0.493 | 0.493 | 0.343 | 0.304 | 0.0048 | 4.78 | 0.278 | | | 1.49 | 14.96 | 0.411 | 100 | |
| NCS HC 17414 | High Speed Steel | 0.332 | 1.16 | 2.719 | 0.0228 | 0.0177 | 4.43 | 0.862 | | 1.955 | 1.083 | 9.22 | 6.16 | 2.989 | 100 |
| | | | | | | | | | | | | | | | |
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| NCS HC 17414 | High Speed Steel | 0.497 | | | | | | | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

5)Tool Steel

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|--------------|---|-------------------------------|-------|-------|-------|--------|-------|-------|-------|-------|-------|------|----------------|--------|---------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | W | Mo | Sn | Co | |
| NCS HC 21401 | High Speed Steel | 0.828 | 0.226 | 0.283 | 0.028 | 0.0065 | 4.08 | 0.083 | 0.140 | 1.33 | 9.23 | 3.13 | 0.017 | 0.018 | 150 |
| | | | Ti | Als | | | | | | | | | | | |
| | | 0.0044 | 0.013 | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | W | Mo | R _E | | |
| NCS HC 23402 | Cr ₄ Mo ₄ VR _E | 0.85 | 0.39 | 0.35 | 0.034 | 0.014 | 4.07 | | | 0.99 | | 4.38 | 0.035 | 150 | |
| NCS HC 23403 | W ₉ Mo ₃ Cr ₄ V | 0.81 | 0.322 | 0.349 | 0.028 | 0.012 | 3.91 | 0.076 | 0.137 | 1.49 | 8.84 | 2.92 | | 150 | |
| NCS HC 23404 | W ₉ Mo ₃ Cr ₄ V | 0.823 | 0.303 | 0.303 | 0.027 | 0.017 | 3.99 | 0.100 | 0.138 | 1.44 | 9.17 | 2.92 | | 100 | |
| NCS HC 23405 | High-speed tool Steel | 0.888 | 0.267 | 0.308 | 0.026 | 0.018 | 3.99 | 0.103 | 0.147 | 1.94 | 6.13 | 4.85 | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | |
| NCS HC 24403 | High Speed Steel | 0.731 | 0.207 | 0.286 | 0.22 | 0.22 | 2.96 | 0.156 | 0.249 | | 0.44 | | 15.99 | 0.42 | 100 |
| NCS HC 24404 | High Speed Steel | 0.909 | 0.309 | 0.244 | 0.025 | 0.026 | 3.25 | 0.203 | 0.223 | | 0.84 | | 14.41 | 0.88 | 100 |
| NCS HC 24405 | High Speed Steel | 0.821 | 0.443 | 0.307 | 0.025 | 0.024 | 3.54 | 0.383 | 0.211 | 0.059 | 1.23 | | 11.71 | 1.57 | 100 |
| NCS HC 24407 | High Speed Steel | 1.09 | 0.352 | 0.405 | 0.034 | 0.034 | 4.26 | 0.201 | 0.248 | | 2.77 | | 6.85 | 3.75 | 100 |
| NCS HC 24408 | High Speed Steel | 0.996 | 0.648 | 0.293 | 0.026 | 0.026 | 5.19 | 0.224 | 0.203 | 0.128 | 4.51 | | 1.80 | 6.52 | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | W | Mo | Co | Ti | |
| NCS HC 28401 | T10 | 0.985 | 0.286 | 0.211 | 0.027 | 0.012 | 0.070 | 0.037 | 0.086 | | | | | | 100 |
| NCS HC 28402 | High Speed Steel | 0.847 | 0.190 | 0.296 | 0.023 | 0.012 | 3.99 | 0.096 | 0.122 | 1.93 | 6.14 | 5.06 | 0.023 | 0.0013 | 100 |
| | | | Als | | | | | | | | | | | | |
| NCS HC 28402 | High Speed Steel | 0.0020 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | |
| NCS HC 41401 | T ₈ | 0.822 | 0.223 | 0.267 | 0.008 | 0.0075 | 0.101 | 0.035 | 0.084 | | 0.001 | | | | 150 |
| NCS HC 41403 | T ₉ | 0.890 | 0.209 | 0.252 | 0.021 | 0.0115 | | | | | | | | | 150 |
| NCS HC 41404 | W ₁₈ Cr ₄ V | 0.740 | 0.165 | 0.178 | 0.025 | 0.0015 | 4.18 | | | | 1.30 | | 17.97 | | 150 |
| NCS HC 41406 | W ₆ Mo ₅ Cr ₄ V ₂ | 0.874 | 0.367 | 0.301 | 0.020 | 0.017 | 4.12 | 0.317 | 0.080 | | 1.76 | | 6.15 | 4.73 | 150 |

Section 1 Iron, Steel & Alloy(Chip)

6) Superalloy, Precious Alloy & Heat Resisting Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) | |
|--------------|---|-------------------------------|-------|-------|--------|--------|-------|--------|--------|-------|-------|------|-------|-------|---------|---------------------|----|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | | |
| NCS HC 11501 | GH49 | 0.032 | | | | | 9.60 | | | 3.56 | 0.30 | 1.83 | 5.82 | 5.45 | 100 | | |
| NCS HC 11502 | GH43 | 0.035 | 0.52 | 0.46 | | | 16.98 | | 1.40 | | 2.54 | 2.78 | 4.74 | 100 | | | |
| NCS HC 11503 | GH37 | 0.10 | 0.59 | 0.45 | 0.009 | 0.013 | 16.02 | | 2.27 | 0.38 | 2.29 | 6.93 | 4.04 | 100 | | | |
| NCS HC 11505 | GH143 | 0.19 | 0.08 | 0.92 | 0.0015 | 0.004 | 15.13 | | 4.83 | | 1.32 | | 5.57 | 100 | | | |
| NCS HC 11506 | GH130 | | 0.04 | | 0.004 | 0.0013 | 14.97 | 37.53 | 1.95 | | 2.93 | 5.07 | | 100 | | | |
| NCS HC 11507 | GH140 | 0.10 | 0.35 | 0.55 | 0.016 | 0.011 | 23.15 | 38.16 | 0.42 | | 0.94 | 1.72 | 2.27 | 100 | | | |
| NCS HC 11508 | GH131 | 0.08 | 0.72 | 0.73 | 0.012 | 0.003 | 20.94 | 27.75 | | | | 5.66 | 2.96 | 100 | | | |
| NCS HC 11509 | GH135 | 0.062 | 0.48 | 0.43 | 0.009 | 0.017 | 14.94 | 34.25 | 2.58 | | 2.42 | 1.96 | 1.94 | 100 | | | |
| NCS HC 11510 | GH35-1 | 0.13 | 0.80 | 0.75 | 0.016 | 0.016 | 23.00 | 36.43 | 0.50 | | 1.19 | 3.38 | | 100 | | | |
| NCS HC 11511 | GH35-2 | 0.10 | 0.62 | 0.61 | 0.013 | 0.029 | 21.00 | 35.95 | 0.44 | | | 2.66 | | 100 | | | |
| NCS HC 11512 | GH36 | 0.37 | 0.43 | 8.56 | 0.012 | 0.029 | 12.81 | 8.52 | | 1.41 | 0.06 | | 1.28 | 100 | | | |
| NCS HC 11513 | GH39 | 0.031 | 0.056 | 0.30 | | 0.004 | 18.94 | | 0.009 | 0.25 | 0.60 | | 1.90 | 100 | | | |
| NCS HC 11514 | GH128 | 0.025 | 0.55 | 0.28 | | 0.004 | 20.10 | | 0.34 | | | 8.15 | 8.09 | 100 | | | |
| NCS HC 11515 | K3 | 0.15 | 0.06 | | | 0.003 | 10.92 | | 5.53 | | 2.72 | 4.91 | 3.98 | 100 | | | |
| NCS HC 11516 | K13 | 0.059 | 0.11 | 0.044 | 0.006 | 0.004 | 14.91 | 35.37 | 1.82 | | 3.58 | | | 100 | | | |
| NCS HC 11517 | 4J29 | | 0.077 | 0.35 | | | 0.21 | 28.91 | | | | | | 100 | | | |
| NCS HC 11518 | Cr ₁₄ Ni ₁₄ W ₂ MoTi | 0.09 | 0.66 | 0.80 | 0.027 | | 12.34 | 14.03 | 0.23 | | 0.48 | 2.20 | 0.58 | 100 | | | |
| NCS HC 11519 | Heat Resisting Steel | 0.400 | 1.85 | 0.95 | 0.015 | 0.0041 | 25.58 | 34.86 | | | 0.041 | 0.93 | 0.348 | 100 | | | |
| NCS HC 11531 | GH153 | 0.04 | 0.18 | 0.34 | 0.005 | 0.004 | 19.96 | | | 0.48 | 0.46 | 8.03 | 8.00 | 100 | | | |
| | | | Co | Nb | Zr | B | N | Fe | Ce | | | | | | | | |
| NCS HC 11501 | GH49 | 14.87 | | | 0.028 | | | (0.48) | 0.0023 | | | | | | | | |
| NCS HC 11502 | GH43 | | 1.01 | | 0.030 | | | (4.84) | | | | | | | | | |
| NCS HC 11503 | GH37 | | | | 0.025 | | | (4.09) | | | | | | | | | |
| NCS HC 11505 | GH143 | 19.73 | | | 0.017 | | | (1.07) | | | | | | | | | |
| NCS HC 11506 | GH130 | | | | 0.018 | | | | | | | | | | | | |
| NCS HC 11508 | GH131 | | 1.03 | | 0.0015 | 0.11 | | | | | | | | | | | |
| NCS HC 11509 | GH135 | | | | 0.017 | | | | | | | | | | | | |
| NCS HC 11510 | GH35-1 | | | | | | | 0.014 | | | | | | | | | |
| NCS HC 11511 | GH35-2 | | 1.43 | | | | | 0.013 | | | | | | | | | |
| NCS HC 11512 | GH36 | | 0.44 | | | | | | | | | | | | | | |
| NCS HC 11513 | GH39 | | 0.82 | | | | | (0.42) | | | | | | | | | |
| NCS HC 11514 | GH128 | | | 0.032 | 0.007 | | | (1.94) | 0.007 | | | | | | | | |
| NCS HC 11515 | K3 | 5.41 | | 0.096 | 0.034 | | | (0.22) | 0.015 | | | | | | | | |
| NCS HC 11516 | K13 | | | | 0.100 | | | | | | | | | | | | |
| NCS HC 11517 | 4J29 | 17.17 | | | | | | | | | | | | | | | |
| NCS HC 11531 | GH153 | | | 0.12 | 0.002 | | | 1.12 | 0.005 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size | |
| NCS HC 11530 | Nickel Base Super Alloy | 0.120 | 0.249 | 0.276 | 0.0077 | 0.0046 | 12.81 | 0.454 | 4.53 | 0.011 | 6.14 | 2.15 | 0.094 | 0.850 | 0.00023 | (0.00006) | 50 |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | | Unit Size | |
| NCS HC 11520 | Superalloy Trace Elements | Ag | As | Bi | Ca | Cd | In | Mg | Pb | Sb | So | Sn | Te | Ti | | | |
| NCS HC 11520 | Superalloy Trace Elements | 24 | 29 | | | | | | | | | | | | | | |
| NCS HC 11521 | Superalloy Trace Elements | 32 | 32 | | | | | | | | | | | | | | |
| NCS HC 11522 | Superalloy Trace Elements | 105 | 108 | | | | | | | | | | | | | | |
| NCS HC 11523 | Superalloy Trace Elements | 20 | 28 | | | | | | | | | | | | | | |
| NCS HC 11524 | Superalloy Trace Elements | 6.0 | 63 | | | | | | | | | | | | | | |

Section 1 Iron, Steel & Alloy(Chip)

6) Superalloy, Precious Alloy & Heat Resisting Alloy

| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | | Unit Size (in g) |
|--------------|------------------------------|-------------------------------|-------|---------|--------|--------|-------|-------|--------|-------|--------|-------|-------|-------|-----|---------------------|
| | | Ag | As | B | Bi | Cd | Ce | Cl | Hf | Ga | Ge | In | P | Pb | | |
| NCS HC 11525 | Trace elements in superalloy | 0.78 | 6.7 | 90 | 0.14 | 0.31 | 0.38 | 571 | 3.5 | 31 | 13 | 0.88 | 41 | 3.4 | 100 | |
| NCS HC 11526 | Trace elements in superalloy | 1.0 | 14 | 47 | 0.19 | <0.02 | 1.8 | 363 | 7.4 | 34 | 24 | 7.2 | 36 | 3.7 | 100 | |
| NCS HC 11527 | Trace elements in superalloy | 2.5 | 96 | 25 | 1.2 | <0.02 | 0.45 | 172 | 3.8 | 38 | 38 | 2.6 | 55 | 4.7 | 100 | |
| NCS HC 11528 | Trace elements in superalloy | 4.4 | 44 | 24 | 2.0 | <0.02 | 0.028 | 94 | 33 | 52 | 75 | 31 | 131 | 8.2 | 100 | |
| NCS HC 11529 | Trace elements in superalloy | 5.4 | 25 | 13 | 1.8 | <0.02 | 0.19 | 53 | 12 | 49 | 27 | 10 | 80 | 11 | 100 | |
| | | Sb | Sc | Se | Sn | Te | Ti | Zn | | | | | | | | |
| NCS HC 11525 | Trace elements in superalloy | 1.4 | 1.3 | 9.8 | 3.2 | 28 | 0.13 | 12 | | | | | | | | |
| NCS HC 11526 | Trace elements in superalloy | 3.3 | 2.7 | 12 | 8.3 | 31 | 0.16 | 13 | | | | | | | | |
| NCS HC 11527 | Trace elements in superalloy | 16 | 1.2 | 4.1 | 18 | 7.5 | 4.3 | 14 | | | | | | | | |
| NCS HC 11528 | Trace elements in superalloy | 49 | 1.2 | 2.5 | 45 | 2.3 | 3.9 | 15 | | | | | | | | |
| NCS HC 11529 | Trace elements in superalloy | 33 | 0.6 | 2.2 | 43 | 1.3 | 1.1 | 13 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | Ti | W | Mo | Co | | |
| NCS HC 20503 | 4J29 | 0.0015 | 0.106 | 0.307 | 0.0019 | 0.0056 | 0.148 | 28.80 | 0.072 | | 0.0040 | | 4.13 | 17.77 | 100 | |
| NCS HC 20504 | 1J79 | 0.008 | 0.36 | 1.08 | 0.0009 | 0.0030 | | | | | | | | | 150 | |
| NCS HC 20505 | 2J64 | 0.73 | 0.25 | 0.26 | 0.009 | 0.004 | | 79.56 | 0.072 | | | | 3.98 | | 150 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 23505 | GH130 | 0.038 | 0.19 | 0.28 | 0.08 | 0.05 | 14.28 | 37.83 | | 1.88 | | 2.89 | 5.87 | | 100 | |
| NCS HC 23507 | G263 | 0.06 | 0.26 | 0.47 | | 0.0028 | 20.08 | | 0.078 | 0.33 | | 2.15 | | | 100 | |
| NCS HC 23511 | F176 | 0.057 | 0.61 | 0.91 | 0.023 | 0.059 | 16.05 | 9.20 | 0.12 | | | | 0.04 | 0.75 | 100 | |
| | | Co | Nb | Zr | B | Sb | N | Ce | Se | Fe | In | Ga | | | | |
| NCS HC 23505 | GH130 | | | | 0.016 | | | | 0.106 | | | | | | | |
| NCS HC 23507 | G263 | 20.58 | | | 0.0038 | | | | | 0.255 | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 24513 | 2J9 | 0.070 | 0.61 | 0.74 | 0.0038 | 0.0079 | | 0.93 | | | 8.82 | | | | 100 | |
| NCS HC 24520 | 4J47 | 0.016 | 0.13 | 0.27 | 0.0030 | 0.005 | 1.17 | 47.19 | | | | | | | 100 | |
| | | Co | B | Fe | | | | | | | | | | | | |
| NCS HC 24513 | 2J9 | 52.08 | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mo | | |
| NCS HC 57511 | GH4169 | 0.019 | 0.084 | 0.0016* | 0.0012 | 0.0056 | 18.59 | 52.36 | 0.0021 | 0.42 | 0.16 | 0.93 | 0.23 | 3.08 | 100 | |
| | | Co | B | Nb | Zr | | | | | | | | | | | |
| NCS HC 57511 | GH4169 | 1.03 | 0.011 | 5.09 | 0.018 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | Fe | Ti | Co | Mo | | |
| NCS HC 41501 | Nickel-based superalloy | 0.043 | 0.071 | 0.124 | 0.0023 | 0.0006 | 20.69 | 63.72 | | 0.016 | 3.50 | 0.011 | | 8.37 | 100 | |
| NCS HC 41502 | Nickel-based superalloy | 0.027 | 0.080 | 0.057 | 0.0033 | 0.0005 | 18.56 | 52.27 | 0.023 | 0.635 | 18.54 | 1.03 | 0.111 | 3.28 | 100 | |
| NCS HC 41503 | Corrosion-resisting alloy | 0.071 | 0.36 | 0.807 | 0.015 | 0.0006 | 20.72 | 32.27 | 0.038 | 0.299 | | 0.49 | 0.050 | 0.297 | 100 | |
| | | Nb | Ta* | B | Co* | Ta** | | | | | | | | | | |
| NCS HC 41501 | Nickel-based superalloy | 3.19 | | | 0.011 | 0.001 | | | | | | | | | | |
| NCS HC 41502 | Nickel-based superalloy | 5.15 | 0.008 | 0.0025 | | | | | | | | | | | | |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) |
|-----------------|-----------------------|-------------------------------|---------|-----------------|--------|-----------|--------|-------|-------|-------|--------|--------|--------|--------|-------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Ti | Zr | B | Sn | Sb | |
| NCS HS 11706-3 | Silicon Steel | 0.106 | 1.03 | 0.546 | 0.045 | 0.029 | 0.187 | 0.571 | 0.146 | 0.026 | 0.017 | 0.012 | 0.019 | 0.0012 | ø38×30 |
| NCS HS 11706-5 | Silicon Steel | 0.040 | 4.16 | 1.10 | 0.020 | 0.031 | 0.042 | 0.101 | 0.063 | 0.010 | 0.0035 | 0.0054 | 0.0055 | 0.022 | ø38×30 |
| | | N | Als | Al _i | | | | | | | | | | | |
| NCS HS 11706-3 | Silicon Steel | (0.0058) | 0.779 | 0.783 | | | | | | | | | | | |
| NCS HS 11706-5 | Silicon Steel | 0.0026 | 0.065 | 0.068 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | V | Ti | W | Alt | |
| NCS HS 11708a-1 | Alloy structure steel | 0.200 | 0.222 | 0.680 | 0.038 | 0.0084 | 2.97 | 3.53 | 0.355 | 0.210 | 0.189 | 0.161 | 0.429 | 0.016 | ø38×30 |
| NCS HS 11708a-2 | Alloy structure steel | 0.144 | 0.132 | 3.60 | 0.053 | 0.074 | 0.95 | 4.33 | 0.016 | 0.019 | 0.478 | 0.226 | 0.092 | 0.012 | ø38×30 |
| NCS HS 11708a-3 | Alloy structure steel | 0.288 | 0.290 | 0.89 | 0.035 | 0.027 | 2.27 | 1.29 | 0.136 | 0.556 | 0.346 | 0.296 | 0.804 | 0.100 | ø38×30 |
| NCS HS 11708a-4 | Alloy structure steel | 0.046 | 0.051 | 2.42 | 0.048 | 0.017 | 4.40 | 2.54 | 0.441 | 1.40 | 0.449 | 0.035 | 1.98 | 0.0067 | ø38×30 |
| NCS HS 11708a-5 | Alloy structure steel | 0.251 | 0.605 | 1.04 | 0.025 | 0.031 | 1.36 | 1.77 | 0.046 | 0.864 | 0.118 | 0.073 | 1.23 | 0.0098 | ø38×30 |
| NCS HS 11708a-6 | Alloy structure steel | 0.315 | 0.391 | 1.88 | 0.029 | 0.049 | 3.27 | 1.02 | 0.245 | 0.118 | 0.273 | 0.136 | 0.201 | 0.147 | ø38×30 |
| NCS HS 11708a-7 | Alloy structure steel | 0.505 | 1.10 | 0.325 | 0.0062 | 0.065 | 0.703 | 0.773 | 0.518 | 0.305 | 0.013 | 0.028 | 0.602 | 0.311 | ø38×30 |
| NCS HS 11708a-8 | Alloy structure steel | 0.425 | 0.830 | 0.553 | 0.017 | 0.0009 | 0.177 | 0.621 | 0.636 | 0.423 | 0.055 | 0.061 | 0.362 | 0.602 | ø38×30 |
| | | As | Sn | Pb | B | Ce | N | | | | | | | | |
| NCS HS 11708a-1 | Alloy structure steel | 0.048 | 0.048 | (0.0008) | 0.0064 | (0.0002) | 0.014 | | | | | | | | |
| NCS HS 11708a-2 | Alloy structure steel | 0.054 | 0.057 | (0.0003) | 0.0006 | | 0.007 | | | | | | | | |
| NCS HS 11708a-3 | Alloy structure steel | 0.021 | 0.017 | 0.0034 | 0.0029 | | 0.0085 | | | | | | | | |
| NCS HS 11708a-4 | Alloy structure steel | 0.032 | 0.036 | 0.0015 | 0.0016 | (0.0001) | 0.020 | | | | | | | | |
| NCS HS 11708a-5 | Alloy structure steel | 0.093 | 0.011 | 0.0024 | 0.0055 | (0.00009) | 0.010 | | | | | | | | |
| NCS HS 11708a-6 | Alloy structure steel | 0.056 | 0.027 | (0.0002) | 0.0096 | | 0.015 | | | | | | | | |
| NCS HS 11708a-7 | Alloy structure steel | 0.0067 | 0.0042 | 0.0019 | 0.025 | (0.0001) | 0.0027 | | | | | | | | |
| NCS HS 11708a-8 | Alloy structure steel | 0.0086 | 0.0087 | 0.0013 | 0.019 | 0.045 | 0.0028 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Ti | W | Mo | Co | Sn | |
| NCS HS 11709a-1 | Stainless Steel | 0.0035 | 1.13 | 0.343 | 0.065 | 0.049 | 28.00 | 4.76 | 0.202 | 0.053 | 0.032 | 0.040 | 0.012 | 0.051 | ø38×30 |
| NCS HS 11709a-2 | Stainless Steel | 0.139 | 0.555 | 1.06 | 0.022 | 0.013 | 14.37 | 14.58 | 0.133 | 0.475 | 0.577 | 0.305 | 0.166 | 0.015 | ø38×30 |
| NCS HS 11709a-3 | Stainless Steel | 0.183 | 0.352 | 0.981 | 0.015 | 0.0098 | 10.66 | 19.13 | 0.057 | 0.577 | 0.735 | 0.606 | 0.222 | 0.0089 | ø38×30 |
| NCS HS 11709a-4 | Stainless Steel | 0.060 | 0.971 | 0.704 | 0.035 | 0.032 | 19.73 | 11.24 | 0.258 | 0.253 | 0.198 | 0.169 | 0.078 | 0.033 | ø38×30 |
| NCS HS 11709a-5 | Stainless Steel | 0.224 | 0.154 | 1.92 | 0.0057 | 0.0045 | 7.65 | 22.77 | 0.014 | 0.774 | 0.432 | 0.809 | 0.131 | 0.0027 | ø38×30 |
| NCS HS 11709a-6 | Stainless Steel | 0.027 | 1.06 | 0.595 | 0.057 | 0.042 | 24.40 | 7.34 | 0.326 | 0.170 | 0.078 | 0.053 | 0.031 | 0.042 | ø38×30 |
| NCS HS 11709a-7 | Stainless Steel | 0.084 | 0.765 | 1.31 | 0.039 | 0.025 | 17.57 | 8.72 | 0.405 | 0.336 | 0.873 | 0.973 | 0.265 | 0.018 | ø38×30 |
| | | As | Pb | Al _i | | | | | | | | | | | |
| NCS HS 11709a-1 | Stainless Steel | 0.0027 | 0.0004 | 0.107 | | | | | | | | | | | |
| NCS HS 11709a-2 | Stainless Steel | 0.021 | 0.00017 | 0.029 | | | | | | | | | | | |
| NCS HS 11709a-3 | Stainless Steel | 0.024 | 0.00013 | 0.019 | | | | | | | | | | | |
| NCS HS 11709a-4 | Stainless Steel | 0.011 | 0.00030 | 0.096 | | | | | | | | | | | |
| NCS HS 11709a-5 | Stainless Steel | 0.030 | 0.0003 | 0.015 | | | | | | | | | | | |
| NCS HS 11709a-6 | Stainless Steel | 0.0066 | 0.0002 | 0.174 | | | | | | | | | | | |
| NCS HS 11709a-7 | Stainless Steel | 0.016 | 0.00017 | 0.041 | | | | | | | | | | | |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
|-----------------|-------------------------|-------------------------------|--------|----------|---------|--------|-------|-------|--------|--------|--------|--------|--------|----------|-------------------|--|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | V | Mg | Sn | N | | |
| NCS HS 11712a-1 | Nitrogen Cast Iron | 1.75 | 3.40 | 0.080 | 0.580 | 0.119 | 2.48 | 0.030 | 0.025 | 0.031 | 0.021 | 0.0006 | 0.0031 | 0.015 | ø28×30 | |
| NCS HS 11712a-2 | Nitrogen Cast Iron | 2.22 | 2.44 | 0.301 | 0.043 | 0.058 | 2.13 | 0.341 | 0.458 | 0.087 | 0.055 | 0.0085 | 0.044 | 0.024 | ø28×30 | |
| NCS HS 11712a-3 | Nitrogen Cast Iron | 2.55 | 1.50 | 0.878 | 0.071 | 0.045 | 0.417 | 0.519 | 0.641 | 0.354 | 0.085 | 0.024 | 0.021 | 0.024 | ø28×30 | |
| NCS HS 11712a-4 | Nitrogen Cast Iron | 3.16 | 1.96 | 0.462 | 0.396 | 0.017 | 1.40 | 0.778 | 0.921 | 0.428 | 0.166 | 0.025 | 0.024 | 0.0073 | ø28×30 | |
| NCS HS 11712a-5 | Nitrogen Cast Iron | 3.52 | 1.17 | 0.311 | 0.420 | 0.019 | 0.766 | 1.03 | 0.389 | 0.629 | 0.324 | 0.021 | 0.013 | 0.0047 | ø28×30 | |
| NCS HS 11712a-6 | Nitrogen Cast Iron | 4.02 | 0.163 | 1.41 | 0.021 | 0.026 | 0.112 | 1.89 | 1.83 | 0.726 | 0.509 | 0.104 | 0.057 | 0.013 | ø28×30 | |
| NCS HS 11712a-7 | Nitrogen Cast Iron | 3.94 | 0.918 | 1.38 | 0.085 | 0.0048 | 1.05 | 1.37 | 1.10 | 0.168 | 0.309 | 0.056 | 0.134 | 0.0063 | ø28×30 | |
| | | Ti | Al | La | Ce | | | | | | | | | | | |
| NCS HS 11712a-1 | Nitrogen Cast Iron | 0.038 | 0.248 | <0.0001 | <0.0001 | | | | | | | | | | | |
| NCS HS 11712a-2 | Nitrogen Cast Iron | 0.065 | 0.060 | 0.010 | 0.0010 | | | | | | | | | | | |
| NCS HS 11712a-3 | Nitrogen Cast Iron | 0.027 | 0.034 | 0.0061 | 0.027 | | | | | | | | | | | |
| NCS HS 11712a-4 | Nitrogen Cast Iron | 0.065 | 0.0073 | <0.0001 | <0.0001 | | | | | | | | | | | |
| NCS HS 11712a-5 | Nitrogen Cast Iron | 0.161 | | <0.0001 | <0.0001 | | | | | | | | | | | |
| NCS HS 11712a-6 | Nitrogen Cast Iron | 0.238 | 0.019 | <0.0001 | <0.0001 | | | | | | | | | | | |
| NCS HS 11712a-7 | Nitrogen Cast Iron | 0.114 | 0.214 | <0.0001 | <0.0001 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | W | Mo | V | Co | Alf | | |
| NCS HS 11714-2 | Low alloy steel | 0.076 | 0.966 | 0.095 | 0.027 | 0.010 | 1.89 | 0.988 | 0.216 | 2.07 | 1.09 | 0.241 | 0.161 | 0.858 | ø38×30 | |
| NCS HS 11714-3 | Low alloy steel | 0.930 | 1.10 | 1.20 | 0.011 | 0.044 | 3.23 | 0.501 | 0.364 | 0.814 | 0.292 | 0.061 | 0.504 | 0.108 | ø38×30 | |
| | | Als | Zr | Tit | Tis | Nb | Bt | Bs | Pb | Sn | Sb | Bi | As | Ca | Ce | |
| NCS HS 11714-2 | Low alloy steel | 0.858 | 0.045 | 0.259 | 0.256 | 0.206 | 0.011 | 0.010 | 0.0021 | 0.0016 | 0.0007 | 0.0014 | 0.0025 | 0.0016 | <0.0001 | |
| NCS HS 11714-3 | Low alloy steel | 0.102 | 0.011 | 0.322 | 0.317 | 0.248 | 0.015 | 0.013 | 0.0023 | 0.011 | 0.0023 | 0.013 | 0.0070 | (0.0005) | <0.0001 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | Mo | Nb | Alf | | |
| NCS HS 11716a-1 | High Chromium Cast Iron | 1.8 | 2.72 | 0.687 | 0.106 | 0.046 | 32.6 | 0.272 | 0.314 | 0.217 | 0.081 | 0.201 | 0.12 | 0.075 | ø33×21 | |
| NCS HS 11716a-2 | High Chromium Cast Iron | 1.99 | 1.12 | 1.19 | 0.051 | 0.015 | 10.97 | 0.319 | 1.34 | 0.15 | 0.04 | 0.716 | 0.272 | 0.051 | ø33×21 | |
| NCS HS 11716a-3 | High Chromium Cast Iron | 3.35 | 1.42 | 1.25 | 0.056 | 0.046 | 25.83 | 0.662 | 0.877 | 0.447 | 0.188 | 0.461 | 0.068 | 0.141 | ø33×21 | |
| NCS HS 11716a-4 | High Chromium Cast Iron | 2.63 | 0.572 | 2.09 | 0.021 | 0.05 | 14.64 | 1.49 | 1.64 | 0.086 | 0.086 | 3.51 | 0.261 | 0.139 | ø33×21 | |
| NCS HS 11716a-5 | High Chromium Cast Iron | 2.27 | 0.713 | 1.4 | 0.186 | 0.046 | 18.28 | 2.16 | 0.884 | 0.607 | 0.028 | 2.42 | 0.437 | 0.044 | ø33×21 | |
| NCS HS 11716a-6 | High Chromium Cast Iron | 3.02 | 1.72 | 1.76 | 0.249 | 0.093 | 23.76 | 0.811 | 0.617 | 0.479 | 0.114 | 1.29 | 0.128 | 0.18 | ø33×21 | |
| | | Co | W | | | | | | | | | | | | | |
| NCS HS 11716a-1 | High Chromium Cast Iron | 0.037 | 0.29 | | | | | | | | | | | | | |
| NCS HS 11716a-2 | High Chromium Cast Iron | 0.018 | 0.352 | | | | | | | | | | | | | |
| NCS HS 11716a-3 | High Chromium Cast Iron | 0.357 | 0.519 | | | | | | | | | | | | | |
| NCS HS 11716a-4 | High Chromium Cast Iron | 0.124 | 0.025 | | | | | | | | | | | | | |
| NCS HS 11716a-5 | High Chromium Cast Iron | 0.031 | 0.071 | | | | | | | | | | | | | |
| NCS HS 11716a-6 | High Chromium Cast Iron | 0.206 | 0.18 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Cr | Ni | Mo | Cu | Ti | Al | V | Sb | | |
| NCS HS 11722-1 | Ductile Cast Iron | 2.12 | 3.88 | 0.26 | 0.38 | 0.004 | 0.040 | 0.026 | 0.77 | 0.21 | 0.37 | 0.17 | 0.031 | 0.003 | ø36X15 | |
| NCS HS 11722-2 | Ductile Cast Iron | 2.46 | 1.44 | 1.09 | 0.074 | 0.035 | 0.083 | 0.025 | 0.56 | 1.51 | 0.143 | 0.070 | 0.067 | 0.052 | ø36X15 | |
| NCS HS 11722-3 | Ductile Cast Iron | 3.62 | 1.85 | 0.60 | 0.049 | 0.012 | 0.069 | 0.017 | 0.38 | 0.76 | 0.13 | 0.094 | 0.10 | 0.094 | ø36X15 | |
| NCS HS 11722-4 | Ductile Cast Iron | 3.24 | 2.84 | 0.46 | 0.049 | 0.016 | 0.093 | 0.078 | 0.16 | 0.24 | 0.082 | 0.083 | 0.11 | 0.038 | ø36X15 | |
| NCS HS 11722-5 | Ductile Cast Iron | 2.70 | 2.03 | 0.77 | 0.16 | 0.087 | 0.045 | 0.023 | 0.12 | 1.23 | 0.20 | 0.13 | 0.30 | 0.12 | ø36X15 | |
| NCS HS 11722-6 | Ductile Cast Iron | 4.04 | 0.88 | 0.89 | 0.29 | 0.14 | 0.13 | 0.035 | 0.079 | 0.61 | 0.053 | 0.044 | 0.50 | 0.20 | ø36X15 | |
| | | Sn | Mg | La | Ce | | | | | | | | | | | |
| NCS HS 11722-1 | Ductile Cast Iron | 0.30 | 0.07 | 0.06 | 0.20 | | | | | | | | | | | |
| NCS HS 11722-2 | Ductile Cast Iron | 0.24 | 0.041 | 0.018 | 0.062 | | | | | | | | | | | |
| NCS HS 11722-3 | Ductile Cast Iron | 0.18 | 0.060 | 0.045 | 0.11 | | | | | | | | | | | |
| NCS HS 11722-4 | Ductile Cast Iron | 0.090 | 0.033 | 0.002 | 0.004 | | | | | | | | | | | |
| NCS HS 11722-5 | Ductile Cast Iron | 0.065 | 0.004 | (0.0005) | (0.003) | | | | | | | | | | | |
| NCS HS 11722-6 | Ductile Cast Iron | 0.016 | 0.007 | (0.0005) | (0.003) | | | | | | | | | | | |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) |
|----------------|----------------------|-------------------------------|--------|----------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|----------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | W | Mo | V | Co | Ti | |
| NCS HS 11719-1 | Carbon steel | 0.963 | 0.241 | 0.586 | 0.022 | 0.010 | 0.131 | 0.206 | 0.111 | | | 0.035 | | | ø38×30 |
| NCS HS 11719-2 | Carbon steel | 0.042 | 0.154 | 0.048 | 0.105 | 0.0053 | 0.247 | 0.432 | 0.411 | | | 0.207 | | | ø38×30 |
| NCS HS 11719-3 | Carbon steel | 0.435 | 0.163 | 1.14 | 0.045 | 0.020 | 0.086 | 0.114 | 0.160 | | | 0.099 | | | ø38×30 |
| NCS HS 11719-4 | Carbon steel | 0.140 | 0.526 | 1.30 | 0.084 | 0.020 | 0.198 | 0.344 | 0.276 | | | 0.153 | | | ø38×30 |
| NCS HS 11719-5 | Carbon steel | 1.19 | 0.751 | 2.20 | 0.011 | 0.013 | 0.439 | 0.164 | 0.046 | | | 0.0082 | | | ø38×30 |
| NCS HS 11719-6 | Carbon steel | 0.0060 | 0.014 | 0.163 | 0.0053 | 0.035 | 0.021 | 0.013 | 0.0032 | | | 0.363 | | | ø38×30 |
| NCS HS 11719-7 | Carbon steel | 0.0048 | 0.055 | 0.145 | 0.0076 | 0.069 | 0.061 | 0.048 | 0.018 | | | 0.362 | | | ø38×30 |
| | | Als | Alt | Tis | Tit | | | | | | | | | | |
| NCS HS 11719-1 | Carbon steel | 0.017 | 0.019 | 0.015 | 0.016 | | | | | | | | | | |
| NCS HS 11719-2 | Carbon steel | 0.292 | 0.296 | 0.154 | 0.161 | | | | | | | | | | |
| NCS HS 11719-3 | Carbon steel | 0.016 | 0.019 | 0.023 | 0.024 | | | | | | | | | | |
| NCS HS 11719-4 | Carbon steel | 0.155 | 0.160 | 0.128 | 0.132 | | | | | | | | | | |
| NCS HS 11719-5 | Carbon steel | 0.034 | 0.036 | 0.028 | 0.029 | | | | | | | | | | |
| NCS HS 11719-6 | Carbon steel | 0.0016 | 0.0021 | 0.0008 | 0.0010 | | | | | | | | | | |
| NCS HS 11719-7 | Carbon steel | 0.0011 | 0.0014 | 0.0012 | 0.0014 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Co | Mo | V | B | Ti | |
| NCS HS 11720-1 | High Manganese Alloy | 1.96 | 0.348 | 22.96 | 0.188 | 0.0063 | 3.01 | 0.045 | 0.025 | 0.0094 | 0.0095 | 0.034 | 0.0021 | 0.0041 | ø30×24 |
| NCS HS 11720-2 | High Manganese Alloy | 1.61 | 0.652 | 10.66 | 0.052 | 0.054 | 0.467 | 0.328 | 0.221 | 0.010 | 0.118 | 0.132 | 0.0038 | 0.047 | ø30×24 |
| NCS HS 11720-3 | High Manganese Alloy | 1.16 | 1.16 | 16.75 | 0.077 | 0.055 | 0.257 | 0.152 | 0.143 | 0.091 | 0.589 | 0.53 | 0.0013 | 0.03 | ø30×24 |
| NCS HS 11720-4 | High Manganese Alloy | 1.06 | 1.47 | 15.04 | 0.044 | 0.059 | 1.45 | 1.66 | 0.089 | 0.0093 | 0.881 | 0.567 | 0.0023 | 0.013 | ø30×24 |
| NCS HS 11720-5 | High Manganese Alloy | 0.75 | 1.01 | 12.2 | 0.118 | 0.037 | 0.68 | 0.838 | 0.449 | 0.007 | 0.302 | 0.273 | 0.0009 | 0.018 | ø30×24 |
| NCS HS 11720-6 | High Manganese Alloy | 2.38 | 1.69 | 5.36 | 0.029 | 0.108 | 0.084 | 3.43 | 0.474 | 0.107 | 1.51 | 0.837 | 0.017 | 0.218 | ø30×24 |
| | | N | | | | | | | | | | | | | |
| NCS HS 11720-1 | High Manganese Alloy | 0.091 | | | | | | | | | | | | | |
| NCS HS 11720-2 | High Manganese Alloy | 0.054 | | | | | | | | | | | | | |
| NCS HS 11720-3 | High Manganese Alloy | 0.033 | | | | | | | | | | | | | |
| NCS HS 11720-4 | High Manganese Alloy | 0.072 | | | | | | | | | | | | | |
| NCS HS 11720-5 | High Manganese Alloy | 0.026 | | | | | | | | | | | | | |
| NCS HS 11720-6 | High Manganese Alloy | 0.016 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Mo | Co | Cu | Ti | V | Alt | |
| NCS HS 11721-1 | Stainless Steel | 0.583 | 1.1 | 1.47 | 0.033 | 0.032 | 8.55 | 1.98 | 1.86 | 0.289 | 0.321 | 0.463 | 0.329 | 0.248 | ø38×30 |
| NCS HS 11721-2 | Stainless Steel | 0.371 | 0.958 | 1.17 | 0.03 | 0.053 | 10.08 | 1.43 | 0.503 | 0.276 | 0.279 | 0.694 | 0.298 | 0.196 | ø38×30 |
| NCS HS 11721-3 | Stainless Steel | 0.189 | 0.76 | 0.882 | 0.019 | 0.021 | 2.09 | 0.638 | 0.734 | 0.213 | 0.217 | 0.369 | 0.189 | 0.091 | ø38×30 |
| NCS HS 11721-4 | Stainless Steel | 0.093 | 0.506 | 0.531 | 0.029 | 0.026 | 17.43 | 0.632 | 0.089 | 0.176 | 0.169 | 0.288 | 0.241 | 0.124 | ø38×30 |
| NCS HS 11721-5 | Stainless Steel | 0.052 | 0.584 | 0.675 | 0.022 | 0.027 | 21.49 | 1.01 | 0.263 | 0.126 | 0.12 | 0.141 | 0.142 | 0.026 | ø38×30 |
| NCS HS 11721-6 | Stainless Steel | 0.0021 | 0.301 | 0.366 | 0.011 | 0.014 | 26.29 | 0.37 | 1.03 | 0.074 | 0.072 | 0.092 | 0.099 | 0.0065 | ø38×30 |
| NCS HS 11721-7 | Stainless Steel | 0.0014 | 0.117 | 0.198 | 0.0064 | 0.0055 | 28.38 | 0.04 | 1.57 | 0.0085 | 0.0045 | 0.0053 | 0.016 | 0.0026 | ø38×30 |
| | | As | Sn | Pb | N | Nb | | | | | | | | | |
| NCS HS 11721-1 | Stainless Steel | 0.0027 | 0.0042 | (0.0002) | 0.0084 | 0.55 | | | | | | | | | |
| NCS HS 11721-2 | Stainless Steel | 0.0051 | 0.01 | 0.00037 | 0.0081 | 0.763 | | | | | | | | | |
| NCS HS 11721-3 | Stainless Steel | 0.017 | 0.039 | 0.0009 | 0.015 | 0.387 | | | | | | | | | |
| NCS HS 11721-4 | Stainless Steel | 0.022 | 0.034 | (0.0002) | 0.023 | 0.291 | | | | | | | | | |
| NCS HS 11721-5 | Stainless Steel | 0.013 | 0.026 | 0.0007 | 0.037 | 0.137 | | | | | | | | | |
| NCS HS 11721-6 | Stainless Steel | 0.024 | 0.017 | 0.0007 | 0.043 | 0.092 | | | | | | | | | |
| NCS HS 11721-7 | Stainless Steel | 0.036 | 0.051 | 0.0021 | 0.01 | 0.009 | | | | | | | | | |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | | |
|-----------------|--------------------|-------------------------------|--------|-------|--------|--------|--------|--------|-------|--------|----------------|-------------------|-------------------|--------|-------------------|
| | | C | Si | Mn | P | S | Cr | Mo | W | V | B ₁ | B ₂ | | | |
| NCS HS 13704-1 | 12CrMoWVB | 0.068 | 0.510 | 1.096 | 0.012 | 0.047 | 0.281 | 1.46 | 0.298 | 0.394 | 0.0012 | 0.0010 | ø35×25 | | |
| NCS HS 13704-2 | 12CrMoWVB | 0.100 | 0.290 | 0.853 | 0.016 | 0.071 | 0.486 | 1.19 | 0.438 | 0.206 | 0.0021 | 0.0016 | ø35×25 | | |
| NCS HS 13704-3 | 12CrMoWVB | 0.176 | 0.272 | 0.585 | 0.023 | 0.028 | 0.775 | 0.747 | 0.796 | 0.251 | 0.0038 | 0.0030 | ø35×25 | | |
| NCS HS 13704-4 | 12CrMoWVB | 0.193 | 0.173 | 0.396 | 0.039 | 0.027 | 1.19 | 0.472 | 1.44 | 0.061 | 0.0068 | 0.0058 | ø35×25 | | |
| NCS HS 13704-5 | 12CrMoWVB | 0.256 | 0.055 | 0.269 | 0.048 | 0.010 | 1.46 | 0.301 | 1.94 | 0.041 | 0.0090 | 0.0081 | ø35×25 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Mo | W | V | B ₁ | B ₂ | Ni | Cu | |
| NCS HS 13705-1 | Alloy Cast Iron | 1.81 | 3.20 | 1.21 | 0.0233 | 0.011 | 3.08 | 0.627 | 0.207 | 0.507 | 0.0031 | 0.0023 | 4.67 | 0.680 | ø30×30 |
| NCS HS 13705-2 | Alloy Cast Iron | 2.46 | 2.59 | 1.72 | 0.472 | 0.0185 | 0.227 | 0.191 | 0.404 | 0.406 | 0.0065 | 0.0060 | 1.92 | 0.206 | ø30×30 |
| NCS HS 13705-3 | Alloy Cast Iron | 2.97 | 1.99 | 1.48 | 0.313 | 0.0224 | 0.485 | 0.380 | 0.303 | 0.308 | 0.015 | 0.012 | 2.44 | 0.432 | ø30×30 |
| NCS HS 13705-4 | Alloy Cast Iron | 3.21 | 1.44 | 0.142 | 1.57 | 0.121 | 1.47 | 0.0679 | 0.333 | 0.213 | 0.0310 | 0.0294 | 3.02 | 1.24 | ø30×30 |
| NCS HS 13705-5 | Alloy Cast Iron | 3.33 | 1.02 | 0.947 | 0.142 | 0.0556 | 1.12 | 0.751 | 0.169 | 0.156 | 0.059 | 0.051 | 0.971 | 0.753 | ø30×30 |
| NCS HS 13705-6 | Alloy Cast Iron | 3.65 | 0.551 | 0.480 | 0.0582 | 0.0732 | 1.96 | 1.37 | 0.111 | 0.0746 | 0.0846 | 0.0815 | 0.446 | 1.03 | ø30×30 |
| NCS HS 13705-7 | Alloy Cast Iron | 3.99 | 0.284 | 1.98 | 0.211 | 0.0375 | 0.208 | 2.20 | 0.447 | 0.0321 | 0.124 | 0.105 | 0.0713 | 0.0609 | ø30×30 |
| | | Ti | | | | | | | | | | | | | |
| NCS HS 13705-1 | Alloy Cast Iron | 0.268 | | | | | | | | | | | | | |
| NCS HS 13705-2 | Alloy Cast Iron | 0.354 | | | | | | | | | | | | | |
| NCS HS 13705-3 | Alloy Cast Iron | 0.462 | | | | | | | | | | | | | |
| NCS HS 13705-4 | Alloy Cast Iron | 0.156 | | | | | | | | | | | | | |
| NCS HS 13705-5 | Alloy Cast Iron | 0.104 | | | | | | | | | | | | | |
| NCS HS 13705-6 | Alloy Cast Iron | 0.116 | | | | | | | | | | | | | |
| NCS HS 13705-7 | Alloy Cast Iron | 0.0213 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Ti | Mo | Als | | | |
| NCS HS 15701-1 | Cr-Stainless Steel | 0.057 | 0.344 | 0.362 | 0.048 | 0.008 | 15.66 | 0.293 | 0.028 | 0.0062 | 0.085 | 0.238 | ø32×30 | | |
| NCS HS 15701-2 | Cr-Stainless Steel | 0.174 | 0.541 | 0.505 | 0.034 | 0.008 | 13.61 | 0.315 | 0.075 | 0.0065 | 0.171 | 0.181 | ø32×30 | | |
| NCS HS 15701-3 | Cr-Stainless Steel | 0.261 | 0.748 | 0.648 | 0.028 | 0.063 | 11.91 | 0.090 | 0.188 | 0.0064 | 0.267 | 0.291 | ø32×30 | | |
| NCS HS 15701-4 | Cr-Stainless Steel | 0.366 | 0.936 | 1.51 | 0.024 | 0.024 | 8.75 | 0.188 | 0.230 | 0.0074 | 0.359 | 0.138 | ø32×30 | | |
| NCS HS 15701-5 | Cr-Stainless Steel | 0.502 | 1.38 | 1.17 | 0.016 | 0.042 | 7.85 | 0.240 | 0.263 | 0.0068 | 0.460 | 0.103 | ø32×30 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | Ti | | | | |
| NCS HS 15704a-1 | Pure Iron | 0.022 | 0.212 | 0.165 | 0.0043 | 0.010 | 0.017 | 0.027 | 0.021 | 0.29 | | | ø37×55 | | |
| NCS HS 15704a-2 | Pure Iron | 0.013 | 0.0020 | 0.026 | 0.0032 | 0.022 | 0.0020 | 0.019 | 0.102 | | | | ø37×55 | | |
| NCS HS 15704a-3 | Pure Iron | 0.018 | 0.061 | 0.063 | 0.0073 | 0.0092 | 0.0026 | 0.0209 | 0.074 | 0.129 | | | ø37×55 | | |
| NCS HS 15704a-4 | Pure Iron | 0.020 | 0.074 | 0.216 | 0.0068 | 0.006 | 0.009 | 0.021 | 0.023 | 0.39 | | | ø37×55 | | |
| NCS HS 15704a-5 | Pure Iron | 0.088 | 0.032 | 0.41 | 0.0167 | 0.0097 | 0.0032 | 0.0107 | 0.142 | 0.029 | | | ø37×55 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | | |
| | | C | Si | Mn | P | S | Cr | Cu | Al | Ti | Fe | | | | |
| NCS HS 16702-1 | GH30 | 0.241 | 0.311 | 0.156 | 0.0010 | 0.0145 | 17.50 | 0.082 | 0.086 | 0.638 | 0.229 | | ø30×42 | | |
| NCS HS 16702-2 | GH30 | 0.137 | 0.520 | 0.256 | 0.0152 | 0.0051 | 20.56 | 0.100 | 0.267 | 0.214 | 1.579 | | ø30×42 | | |
| NCS HS 16702-3 | GH30 | 0.100 | 0.324 | 0.397 | 0.0063 | 0.0062 | 19.37 | 0.146 | 0.237 | 0.303 | 1.163 | | ø30×42 | | |
| NCS HS 16702-4 | GH30 | 0.230 | 0.895 | 0.615 | 0.0015 | 0.0034 | 18.34 | 0.199 | 0.069 | 0.651 | 1.780 | | ø30×42 | | |
| NCS HS 16702-5 | GH30 | 0.189 | 0.811 | 0.777 | 0.0020 | 0.0036 | 16.81 | 0.245 | 0.065 | 0.495 | 0.702 | | ø30×42 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | Mo | | | | |
| NCS HS 16704-1 | 38CrMoAl | 0.196 | 0.447 | 0.543 | 0.0106 | 0.0101 | 2.22 | 0.460 | 0.082 | 0.383 | 0.476 | | ø32×48 | | |
| NCS HS 16704-2 | 38CrMoAl | 0.141 | 0.581 | 0.790 | 0.0102 | 0.0100 | 1.86 | 0.103 | 0.054 | 0.508 | 0.341 | | ø32×48 | | |
| NCS HS 16704-3 | 38CrMoAl | 0.370 | 0.239 | 0.469 | 0.0166 | 0.0492 | 1.58 | 0.197 | 0.463 | 0.790 | 0.148 | | ø32×48 | | |
| NCS HS 16704-4 | 38CrMoAl | 0.706 | 0.224 | 0.196 | 0.0397 | 0.0375 | 1.97 | 0.479 | 0.07 | 0.247 | 0.391 | | ø32×48 | | |
| NCS HS 16704-5 | 38CrMoAl | 0.238 | 0.364 | 0.546 | 0.0268 | 0.0104 | 1.16 | 0.067 | 0.295 | 0.962 | 0.092 | | ø32×48 | | |
| NCS HS 16704-6 | 38CrMoAl | 0.532 | 0.310 | 0.421 | 0.0379 | 0.0093 | 0.99 | 0.045 | 0.120 | 1.38 | 0.044 | | ø32×48 | | |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | | |
|-----------------|------------------|-------------------------------|--------|--------|--------|--------|-------|--------|-------|-------|-------|-------|-------------------|-------|--------|
| | | C | Si | Mn | P | S | Cr | Ni | V | Ti | As | Mo | | | |
| NCS HS 19701-1 | Pig Iron | 2.45 | 0.099 | 0.072 | 0.011 | 0.019 | 0.513 | 0.183 | 0.009 | 0.006 | 0.005 | | | | ø30×30 |
| NCS HS 19701-2 | Pig Iron | 2.98 | 0.937 | 0.329 | 0.033 | 0.038 | 0.08 | 0.194 | 0.044 | 0.216 | 0.024 | | | | ø30×30 |
| NCS HS 19701-3 | Pig Iron | 3.29 | 0.689 | 1.22 | 0.044 | 0.056 | 0.03 | 0.045 | 0.071 | 0.043 | 0.009 | | | | ø30×30 |
| NCS HS 19701-4 | Pig Iron | 3.7 | 0.45 | 0.857 | 0.087 | 0.076 | 0.118 | 0.032 | 0.158 | 0.03 | 0.002 | 0.031 | | | ø30×30 |
| NCS HS 19701-5 | Pig Iron | 3.67 | 0.18 | 0.596 | 0.072 | 0.117 | 0.17 | 0.504 | 0.335 | 0.066 | 0.002 | 0.68 | | | ø30×30 |
| NCS HS 19701-6 | Pig Iron | 3.93 | 0.99 | 1.46 | 0.168 | 0.124 | 0.388 | 0.094 | 0.506 | 0.105 | 0.002 | 0.112 | | | ø30×30 |
| NCS HS 19701-7 | Pig Iron | 4.13 | 1.85 | 2.06 | 0.306 | 0.111 | 0.157 | 0.026 | 0.822 | 0.403 | 0.043 | | | | ø30×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | | |
| | | C | S | Si | Mn | P | Ni | Cr | Cu | Mo | V | W | | Nb | Ti |
| NCS HS 20704-1 | Pig Iron | 3.09 | 0.032 | 3.52 | 0.248 | 0.111 | | 0.039 | 0.394 | | 0.117 | | | 0.329 | ø30×23 |
| NCS HS 20704-2 | Pig Iron | 3.67 | 0.090 | 2.74 | 0.403 | 0.63 | | 0.172 | 0.153 | | 0.370 | | | 0.143 | ø30×23 |
| NCS HS 20704-3 | Pig Iron | 3.65 | 0.149 | 0.907 | 0.538 | 1.08 | | 0.104 | 0.87 | | 0.627 | | | 0.56 | ø30×23 |
| NCS HS 20704-4 | Pig Iron | 4.03 | 0.074 | 1.76 | 0.90 | 0.106 | | 0.212 | 0.494 | | 0.470 | | | 0.070 | ø30×23 |
| NCS HS 20704-5 | Pig Iron | 4.03 | 0.084 | 0.378 | 1.20 | 0.46 | | 0.065 | 0.75 | | 0.226 | | | 0.174 | ø30×23 |
| NCS HS 20704-6 | Pig Iron | 4.56 | 0.037 | 1.21 | 0.251 | 0.045 | | 0.325 | 0.368 | | 0.699 | | | 0.200 | ø30×23 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | | |
| | | Sn | Pb | Sb | Mg | La | Ce | As | B | Co | Al | Ca | | Zr | Bi |
| NCS HS 20704-1 | Pig Iron | 0.028 | 0.0018 | 0.046 | | | | 0.056 | 0.017 | | | | | | |
| NCS HS 20704-2 | Pig Iron | 0.057 | 0.0062 | 0.119 | | | | 0.045 | 0.022 | | | | | | |
| NCS HS 20704-3 | Pig Iron | 0.106 | 0.0051 | 0.024 | | | | 0.020 | 0.015 | | | | | | |
| NCS HS 20704-4 | Pig Iron | 0.058 | 0.0022 | 0.111 | | | | 0.025 | 0.030 | | | | | | |
| NCS HS 20704-5 | Pig Iron | 0.105 | 0.0048 | 0.073 | | | | 0.040 | 0.016 | | | | | | |
| NCS HS 20704-6 | Pig Iron | 0.0012 | 0.0013 | 0.0014 | | | | 0.0020 | 0.029 | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | W | | Mo | Co |
| NCS HS 23703-1 | Cr ₁₃ | 0.040 | 0.223 | 0.130 | 0.0062 | 0.0028 | 14.26 | 0.500 | 0.056 | 0.059 | 0.041 | 0.058 | 0.064 | 0.016 | ø33×33 |
| NCS HS 23703-2 | Cr ₁₃ | 0.245 | 0.420 | 0.337 | 0.0103 | 0.032 | 11.03 | 0.393 | 0.284 | 0.151 | 0.079 | 0.27 | 0.353 | 0.054 | ø33×33 |
| NCS HS 23703-3 | Cr ₁₃ | 0.159 | 0.568 | 0.495 | 0.0165 | 0.017 | 12.52 | 0.207 | 0.171 | 0.089 | 0.091 | 0.19 | 0.157 | 0.036 | ø33×33 |
| NCS HS 23703-4 | Cr ₁₃ | 0.340 | 0.772 | 0.740 | 0.0262 | 0.0054 | 9.37 | 0.461 | 0.374 | 0.201 | 0.371 | 0.38 | 0.244 | 0.078 | ø33×33 |
| NCS HS 23703-5 | Cr ₁₃ | 0.472 | 0.487 | 0.983 | 0.043 | 0.041 | 7.84 | 0.771 | 0.522 | 0.287 | 0.187 | 0.50 | 0.487 | 0.116 | ø33×33 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Mo | | | | |
| NCS HS 23707a-1 | GSiMnMoV | 1.2 | 0.901 | 0.201 | 0.0036 | 0.048 | 0.108 | 0.454 | 0.514 | 0.045 | 0.086 | | | | ø35×35 |
| NCS HS 23707a-2 | GSiMnMoV | 0.471 | 0.318 | 0.922 | 0.03 | 0.031 | 0.351 | 0.146 | 0.113 | 0.151 | 0.452 | | | | ø35×35 |
| NCS HS 23707a-3 | GSiMnMoV | 0.176 | 0.083 | 1.25 | 0.043 | 0.011 | 0.45 | 0.107 | 0.086 | 0.434 | 0.563 | | | | ø35×35 |
| NCS HS 23707a-4 | GSiMnMoV | 0.936 | 0.747 | 0.511 | 0.012 | 0.0094 | 0.24 | 0.356 | 0.274 | 0.335 | 0.252 | | | | ø35×35 |
| NCS HS 23707a-5 | GSiMnMoV | 0.663 | 0.548 | 0.684 | 0.021 | 0.05 | 0.093 | 0.303 | 0.438 | 0.243 | 0.354 | | | | ø35×35 |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | | Unit Size (mm) |
|----------------|------------------|-------------------------------|----------|-------|--------|--------|------|-------|-------|-------|-------|--------|-------|--------|-------------------|----------|-------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | V | Alt | W | Co | Sn | Pb | |
| NCS HS 23716-1 | Heat Die Steel | 0.763 | 0.36 | 0.216 | 0.032 | 0.013 | 3.24 | 0.291 | 0.092 | 0.767 | 0.27 | 0.0069 | 1.45 | 0.028 | 0.0075 | 0.011 | ø35×30 |
| NCS HS 23716-2 | Heat Die Steel | 1.11 | 0.29 | 0.104 | 0.038 | 0.005 | 5.6 | 0.407 | 0.075 | 0.5 | 0.05 | 0.0051 | 2 | 0.009 | 0.007 | 0.074 | ø35×30 |
| NCS HS 23716-3 | Heat Die Steel | 0.393 | 1.37 | 0.842 | 0.017 | 0.029 | 4.38 | 0.148 | 0.205 | 1.26 | 0.8 | 0.077 | 0.5 | 0.105 | 0.0076 | 0.0087 | ø35×30 |
| NCS HS 23716-4 | Heat Die Steel | 0.599 | 0.08 | 0.432 | 0.021 | 0.034 | 3.84 | 0.199 | 0.136 | 0.946 | 0.66 | 0.019 | 0.97 | 0.049 | 0.02 | (0.0001) | ø35×30 |
| NCS HS 23716-5 | Heat Die Steel | 0.088 | 1.09 | 1.67 | 0.005 | 0.021 | 2.43 | 0.084 | 0.474 | 1.94 | 1.17 | 0.087 | 0.08 | 1.98 | 0.052 | 0.0053 | ø35×30 |
| NCS HS 23716-6 | Heat Die Steel | 0.2 | 0.65 | 1.21 | 0.01 | 0.045 | 4.91 | 0.095 | 0.301 | 1.61 | 1.01 | 0.084 | 0.2 | 1.49 | 0.032 | (0.0001) | ø35×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | V | W | Co | | | | |
| NCS HS 23717-1 | Cold Die Steel | 2.19 | 0.37 | 0.369 | 0.015 | 0.001 | 11.7 | 0.096 | 0.085 | 0.022 | 0.04 | 0.61 | 0.014 | ø35×30 | | | |
| NCS HS 23717-2 | Cold Die Steel | 1.57 | 0.29 | 0.333 | 0.019 | 0.014 | 11.5 | 0.194 | 0.172 | 0.574 | 0.64 | 0.47 | 0.064 | ø35×30 | | | |
| NCS HS 23717-3 | Cold Die Steel | 1.31 | 0.38 | 0.473 | 0.0072 | 0.023 | 10.1 | 0.094 | 0.131 | 0.854 | 0.48 | 0.69 | 0.035 | ø35×30 | | | |
| NCS HS 23717-4 | Cold Die Steel | 0.869 | 0.05 | 0.044 | 0.044 | 0.003 | 14.2 | 0.436 | 0.364 | 0.082 | 1.07 | 0.07 | 0.166 | ø35×30 | | | |
| NCS HS 23717-5 | Cold Die Steel | 1.88 | 0.18 | 0.16 | 0.03 | 0.005 | 12.7 | 0.297 | 0.228 | 0.333 | 0.82 | 0.31 | 0.096 | ø35×30 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | V | Ti | Alt | | | | |
| NCS HS 23718-1 | Middle-Low alloy | 0.496 | 0.25 | 0.732 | 0.051 | 0.014 | 0.81 | 1.47 | 0.439 | 0.504 | 0.52 | 0.325 | 0.02 | ø35×30 | | | |
| NCS HS 23718-2 | Middle-Low alloy | 0.115 | 0.79 | 2.02 | 0.06 | 0.006 | 1.78 | 0.494 | 0.082 | 0.079 | 0.12 | 0.105 | 0.06 | ø35×30 | | | |
| NCS HS 23718-3 | Middle-Low alloy | 0.201 | 0.7 | 1.24 | 0.015 | 0.049 | 0.4 | 1.02 | 0.299 | 0.251 | 0.22 | 0.232 | 0.661 | ø35×30 | | | |
| NCS HS 23718-4 | Middle-Low alloy | 0.356 | 0.42 | 1.68 | 0.0042 | 0.089 | 1.35 | 0.238 | 0.144 | 0.107 | 0.34 | 0.402 | 0.142 | ø35×30 | | | |
| NCS HS 23718-5 | Middle-Low alloy | 0.657 | 0.15 | 0.463 | 0.033 | 0.025 | 2.29 | 0.117 | 0.07 | 0.974 | 0.06 | 0.497 | 0.27 | ø35×30 | | | |
| NCS HS 23718-6 | Middle-Low alloy | 0.048 | 0.07 | 0.102 | 0.018 | 0.003 | 0.1 | 2 | 0.561 | 0.686 | 0.03 | 0.011 | 0.569 | ø35×30 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | V | Alt | W | Co | | | |
| NCS HS 23720-1 | Middle-Low alloy | 0.763 | 0.359 | 0.216 | 0.032 | 0.013 | 3.24 | 0.291 | 0.092 | 0.767 | 0.268 | 0.0069 | 1.45 | 0.028 | ø35×30 | | |
| NCS HS 23720-2 | Middle-Low alloy | 1.11 | 0.286 | 0.104 | 0.038 | 0.0047 | 5.60 | 0.407 | 0.075 | 0.50 | 0.053 | 0.0051 | 2.00 | 0.0086 | ø35×30 | | |
| NCS HS 23720-3 | Middle-Low alloy | 0.393 | 1.37 | 0.842 | 0.017 | 0.029 | 4.38 | 0.148 | 0.205 | 1.26 | 0.80 | 0.077 | 0.496 | 0.105 | ø35×30 | | |
| NCS HS 23720-4 | Middle-Low alloy | 0.599 | 0.080 | 0.432 | 0.021 | 0.034 | 3.94 | 0.199 | 0.136 | 0.946 | 0.66 | 0.019 | 0.97 | 0.049 | ø35×30 | | |
| NCS HS 23720-5 | Middle-Low alloy | 0.088 | 1.09 | 1.67 | 0.0050 | 0.021 | 2.43 | 0.084 | 0.474 | 1.94 | 1.17 | 0.087 | 0.082 | 1.98 | ø35×30 | | |
| NCS HS 23720-6 | Middle-Low alloy | 0.200 | 0.649 | 1.21 | 0.010 | 0.045 | 4.91 | 0.095 | 0.301 | 1.61 | 1.01 | 0.084 | 0.204 | 1.49 | ø35×30 | | |
| | | Sn | Pb | | | | | | | | | | | | | | |
| NCS HS 23720-1 | Middle-Low alloy | 0.0075 | 0.011 | | | | | | | | | | | | | | |
| NCS HS 23720-2 | Middle-Low alloy | 0.0070 | 0.074 | | | | | | | | | | | | | | |
| NCS HS 23720-3 | Middle-Low alloy | 0.0076 | 0.0087 | | | | | | | | | | | | | | |
| NCS HS 23720-4 | Middle-Low alloy | 0.020 | (0.0001) | | | | | | | | | | | | | | |
| NCS HS 23720-5 | Middle-Low alloy | 0.052 | 0.0053 | | | | | | | | | | | | | | |
| NCS HS 23720-6 | Middle-Low alloy | 0.032 | (0.0001) | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | W | V | Alt | | | | |
| NCS HS 24703-1 | High Speed steel | 0.757 | 0.065 | 0.069 | 0.0042 | 0.0043 | 2.55 | 0.072 | 0.046 | 0.16 | 18.68 | 0.154 | | ø35×30 | | | |
| NCS HS 24703-2 | High Speed steel | 0.731 | 0.207 | 0.286 | 0.022 | 0.022 | 2.96 | 0.156 | 0.249 | 0.42 | 15.99 | 0.44 | | ø35×30 | | | |
| NCS HS 24703-3 | High Speed steel | 0.909 | 0.309 | 0.244 | 0.025 | 0.026 | 3.25 | 0.203 | 0.223 | 0.88 | 14.41 | 0.84 | 0.079 | ø35×30 | | | |
| NCS HS 24703-4 | High Speed steel | 0.821 | 0.443 | 0.307 | 0.025 | 0.024 | 3.54 | 0.383 | 0.211 | 1.57 | 11.71 | 1.23 | 0.059 | ø35×30 | | | |
| NCS HS 24703-5 | High Speed steel | 1.11 | 0.349 | 0.313 | 0.049 | 0.036 | 3.90 | 0.196 | 0.348 | 2.51 | 9.27 | 2.03 | 0.101 | ø35×30 | | | |
| NCS HS 24703-6 | High Speed steel | 1.09 | 0.352 | 0.405 | 0.034 | 0.034 | 4.26 | 0.201 | 0.248 | 3.75 | 6.85 | 2.77 | | ø35×30 | | | |
| NCS HS 24703-7 | High Speed steel | 0.996 | 0.648 | 0.293 | 0.026 | 0.026 | 5.19 | 0.224 | 0.203 | 6.52 | 1.80 | 4.51 | 0.128 | ø35×30 | | | |
| NCS HS 24703-8 | High Speed steel | 0.917 | 0.281 | 0.616 | 0.020 | 0.040 | 4.59 | 0.245 | 0.148 | 4.93 | 4.33 | 3.56 | | ø35×30 | | | |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
|----------------|------------|-------------------------------|--------|--------|---------|---------|--------|--------|--------|--------|-------|--------|---------|---------|-------------------|--------|
| | | C | Si | Mn | P | S | Cr | Ni | Mo | V | Cu | Sn | Co | Ti | | |
| NCS HS 28705-1 | Pig Iron | 4.32 | 0.361 | 1.42 | 0.032 | 0.154 | 0.034 | 0.015 | 0.013 | 0.53 | 0.018 | 0.005 | 0.0057 | 0.024 | ø30×30 | |
| NCS HS 28705-2 | Pig Iron | 3.9 | 0.626 | 1.38 | 0.057 | 0.128 | 0.021 | 0.013 | 0.0018 | 0.467 | 0.021 | 0.0019 | 0.034 | 0.093 | ø30×30 | |
| NCS HS 28705-3 | Pig Iron | 3.61 | 1.27 | 0.882 | 0.218 | 0.101 | 0.041 | 0.05 | 0.02 | 0.361 | 0.036 | 0.0012 | 0.01 | 0.131 | ø30×30 | |
| NCS HS 28705-4 | Pig Iron | 3.27 | 1.85 | 0.726 | 0.16 | 0.066 | 0.093 | 0.099 | 0.055 | 0.224 | 0.077 | 0.0018 | 0.011 | 0.252 | ø30×30 | |
| NCS HS 28705-5 | Pig Iron | 3.07 | 0.252 | 0.608 | 0.098 | 0.048 | 0.099 | 0.304 | 0.09 | 0.135 | 0.111 | 0.001 | 0.0083 | 0.334 | ø30×30 | |
| NCS HS 28705-6 | Pig Iron | 2.52 | 3.16 | 0.402 | 0.305 | 0.028 | 0.208 | 0.754 | 0.207 | 0.033 | 0.208 | 0.0088 | 0.0092 | 0.38 | ø30×30 | |
| NCS HS 28705-7 | Pig Iron | 1.76 | 3.79 | 0.247 | 0.468 | 0.0095 | 0.345 | 1.05 | 0.56 | 0.014 | 0.507 | 0.036 | 0.0039 | 0.51 | ø30×30 | |
| | | Sb | Pb | As | Alt | Als | Zn | | | | | | | | | |
| NCS HS 28705-1 | Pig Iron | 0.0004 | 0.0009 | 0.023 | 0.035 | 0.033 | 0.0009 | | | | | | | | | |
| NCS HS 28705-2 | Pig Iron | 0.0004 | 0.0009 | 0.0025 | 0.025 | 0.023 | | | | | | | | | | |
| NCS HS 28705-3 | Pig Iron | 0.0005 | 0.0007 | 0.0027 | 0.024 | 0.022 | | | | | | | | | | |
| NCS HS 28705-4 | Pig Iron | 0.001 | 0.01 | 0.0025 | 0.0092 | 0.007 | 0.001 | | | | | | | | | |
| NCS HS 28705-5 | Pig Iron | 0.0003 | 0.0006 | 0.0026 | 0.045 | 0.042 | 0.002 | | | | | | | | | |
| NCS HS 28705-6 | Pig Iron | 0.037 | 0.013 | 0.0021 | 0.0065 | 0.0049 | 0.0039 | | | | | | | | | |
| NCS HS 28705-7 | Pig Iron | 0.052 | 0.105 | 0.035 | 0.022 | 0.02 | 0.0045 | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Cr | Ni | Mo | V | Cu | N | Nb | Ti | | |
| NCS HS 28706-1 | Line steel | 0.055 | 0.29 | 1.81 | 0.011 | 0.0024 | 0.283 | 0.201 | 0.116 | 0.0043 | 0.205 | 0.0053 | 0.103 | 0.022 | ø40×40 | |
| NCS HS 28706-2 | Line steel | 0.058 | 0.202 | 1.41 | 0.0072 | 0.0063 | 0.049 | 0.012 | 0.0014 | 0.042 | 0.013 | 0.004 | 0.05 | 0.016 | ø40×40 | |
| NCS HS 28706-3 | Line steel | 0.083 | 0.194 | 0.559 | 0.01 | 0.007 | 0.024 | 0.009 | 0.002 | 0.0009 | 0.02 | 0.0053 | 0.011 | 0.003 | ø40×40 | |
| NCS HS 28706-4 | Line steel | 0.086 | 0.246 | 1.2 | 0.011 | 0.006 | 0.022 | 0.008 | 0.0012 | 0.0014 | 0.015 | 0.0059 | 0.022 | 0.01 | ø40×40 | |
| NCS HS 28706-5 | Line steel | 0.105 | 0.325 | 1.31 | 0.0087 | 0.0041 | 0.023 | 0.0089 | 0.0013 | 0.038 | 0.016 | 0.0067 | 0.035 | 0.02 | ø40×40 | |
| NCS HS 28706-6 | Line steel | 0.108 | 0.279 | 1.23 | 0.013 | 0.006 | 0.026 | 0.0061 | 0.001 | 0.0012 | 0.01 | 0.0074 | 0.023 | 0.01 | ø40×40 | |
| | | As | Alt | Als | Ca | | | | | | | | | | | |
| NCS HS 28706-1 | Line steel | 0.004 | 0.027 | 0.026 | 0.0009 | | | | | | | | | | | |
| NCS HS 28706-2 | Line steel | 0.0032 | 0.028 | 0.026 | 0.0012 | | | | | | | | | | | |
| NCS HS 28706-3 | Line steel | 0.0034 | 0.023 | 0.021 | 0.0017 | | | | | | | | | | | |
| NCS HS 28706-4 | Line steel | 0.0043 | 0.016 | 0.015 | 0.0035 | | | | | | | | | | | |
| NCS HS 28706-5 | Line steel | 0.0033 | 0.023 | 0.022 | 0.002 | | | | | | | | | | | |
| NCS HS 28706-6 | Line steel | 0.0044 | 0.023 | 0.022 | 0.0013 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Cr | Ni | W | Mo | Ti | Al | B | Zr | | Ce |
| NCS HS 29708-1 | GH915 | 0.066 | 0.298 | 0.170 | (0.006) | (0.012) | 12.46 | 43.50 | 3.81 | 1.54 | 4.34 | 2.20 | 0.023 | (0.036) | 0.0054 | ø35×48 |
| NCS HS 29708-2 | GH915 | 0.082 | 0.502 | 0.061 | (0.012) | (0.003) | 11.56 | 44.41 | 4.14 | 1.22 | 4.02 | 2.14 | (0.034) | (0.026) | 0.053 | ø35×48 |
| NCS HS 29708-3 | GH915 | 0.102 | 0.543 | 0.016 | (0.018) | (0.002) | 10.14 | 45.60 | 4.43 | 0.925 | 3.68 | 2.75 | 0.044 | 0.017 | 0.066 | ø35×48 |
| NCS HS 29708-4 | GH915 | 0.041 | 0.123 | 0.415 | (0.001) | (0.007) | 14.01 | 42.05 | 3.41 | 1.53 | 4.80 | 1.85 | 0.014 | (0.015) | | ø35×48 |
| NCS HS 29708-5 | GH915 | 0.106 | 0.071 | 0.564 | (0.001) | (0.014) | 12.08 | 44.01 | 4.62 | 2.02 | 3.79 | 2.79 | | | | ø35×48 |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | | | |
|----------------|------------------------|-------------------------------|-----------------|--------|--------|---------|--------|--------|--------|-------------------|----------|-------------------|--------|--------|--------|-------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | | | | | | |
| NCS HS 39701-1 | Carbon Steel | 0.108 | 0.029 | 1.15 | 0.0038 | 0.070 | 0.379 | 0.252 | 0.276 | 0.073 | | | | | ø33×35 | |
| NCS HS 39701-2 | Carbon Steel | 0.172 | 0.103 | 1.07 | 0.014 | 0.012 | 0.241 | 0.210 | 0.14 | | | | | | ø33×35 | |
| NCS HS 39701-3 | Carbon Steel | 0.29 | 0.156 | 0.62 | 0.032 | 0.026 | 0.153 | 0.181 | 0.193 | | | | | | ø33×35 | |
| NCS HS 39701-4 | Carbon Steel | 0.30 | 0.247 | 0.86 | 0.023 | 0.040 | 0.092 | 0.065 | 0.097 | | | | | | ø33×35 | |
| NCS HS 39701-5 | Carbon Steel | 0.44 | 0.46 | 0.41 | 0.039 | 0.040 | 0.275 | 0.062 | 0.325 | 0.40 | | | | | ø33×35 | |
| NCS HS 39701-6 | Carbon Steel | 0.58 | 0.374 | 0.163 | 0.054 | 0.0033 | 0.34 | 0.343 | 0.38 | 0.463 | | | | | ø33×35 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al _i | V | Ti | W | Mo | | |
| NCS HS 11744 | Low Alloy Steel | 0.092 | 0.825 | 1.04 | 0.014 | 0.066 | 0.166 | 1.94 | 0.572 | 0.044 | 0.131 | 0.049 | 1.50 | 0.912 | ø38×30 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | | | |
| | | Co | Nb | Zr | B | Sn | As | Sb | Pb | Bi | | | | | | |
| NCS HS 11744 | Low Alloy Steel | 0.397 | 0.050 | 0.0025 | 0.0007 | 0.0041 | 0.019 | 0.0023 | 0.0007 | 0.0043 | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | Co | W | As | | |
| NCS HS 11751 | 60Si ₂ Mn | 0.661 | 1.82 | 0.805 | 0.027 | 0.017 | 0.021 | 0.020 | 0.136 | | 0.011 | | 0.016 | ø38×45 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | Al _i | B | | | |
| NCS HS 11759 | Carbon Steel | 0.101 | 0.249 | 0.400 | 0.043 | 0.030 | 0.068 | 0.066 | 0.086 | | | 0.264 | 0.0014 | ø37×45 | | |
| NCS HS 11760 | Carbon Steel | 0.202 | 0.512 | 1.34 | 0.046 | 0.032 | 0.078 | 0.050 | 0.057 | | | 0.092 | 0.0012 | ø37×45 | | |
| NCS HS 11763 | Carbon Steel | 0.543 | 0.361 | 0.663 | 0.024 | 0.024 | 0.169 | 0.164 | 0.118 | | | 0.089 | 0.621 | ø37×45 | | |
| NCS HS 11764 | Carbon Steel | 0.235 | 0.318 | 0.632 | 0.037 | 0.028 | 0.076 | 0.103 | 0.106 | | | 0.071 | | ø37×40 | | |
| NCS HS 11766 | Low Alloy Steel | 0.225 | 0.386 | 1.04 | 0.012 | 0.016 | 1.06 | 0.122 | 0.174 | | 0.073 | 0.096 | 0.0016 | ø37×45 | | |
| NCS HS 11774 | GCr ₁₅ | 1.02 | 0.250 | 0.340 | 0.015 | 0.023 | 1.48 | 0.036 | 0.037 | 0.022 | | | | ø36×50 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | Mg | La | Ce | W | Mo | Nb | Zr | Sb | Sn | As | Pb | | | | |
| NCS HS 11759 | Carbon Steel | | | | | | | | | 0.0024 | 0.0058 | | | | | |
| NCS HS 11760 | Carbon Steel | | | | | | | | | 0.0059 | 0.012 | | | | | |
| NCS HS 11763 | Carbon Steel | | | | | | | | | 0.0026 | 0.012 | | | | | |
| NCS HS 11764 | Carbon Steel | | | | | | | | 0.14 | 0.024 | 0.15 | 0.0011 | | | | |
| NCS HS 11766 | Low Alloy Steel | | | | | | | | | 0.0031 | 0.0055 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (mm) | | | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | | | | | | | | |
| NCS HS 11775 | Alloy Steel | 0.084 | 0.787 | 1.62 | 0.029 | 0.002 | 25.53 | 20.72 | | ø35×20 | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | W | V | Ti | Nb | | |
| NCS HS 93703-1 | Medium-Low Alloy Steel | 1.08 | 0.681 | 2.35 | 0.0057 | (0.008) | 3.98 | 0.028 | 0.048 | 0.0077 | 0.293 | 0.0090 | 0.473 | 0.351 | ø33×35 | |
| NCS HS 93703-2 | Medium-Low Alloy Steel | 0.055 | 0.827 | 0.021 | 0.027 | 0.0033 | 3.09 | 1.09 | 0.422 | 1.56 | 1.97 | 0.376 | 0.346 | 0.254 | ø33×35 | |
| NCS HS 93703-3 | Medium-Low Alloy Steel | 0.792 | 1.09 | 1.34 | 0.013 | 0.038 | 2.11 | 0.533 | 0.532 | 0.397 | 0.755 | 0.071 | 0.016 | 0.506 | ø33×35 | |
| NCS HS 93703-4 | Medium-Low Alloy Steel | 0.475 | 2.57 | 0.612 | 0.015 | 0.015 | 1.31 | 2.01 | 0.687 | 0.977 | 1.48 | 0.709 | 0.035 | 0.167 | ø33×35 | |
| NCS HS 93703-5 | Medium-Low Alloy Steel | 0.651 | 0.024 | 1.53 | 0.036 | 0.0052 | 0.021 | 2.98 | 0.236 | 0.631 | 0.05 | 0.231 | 0.111 | 0.0057 | ø33×35 | |
| NCS HS 93703-6 | Medium-Low Alloy Steel | 0.246 | 0.274 | 0.211 | 0.045 | 0.0058 | 0.505 | 3.83 | 0.092 | 0.203 | 1.04 | 0.526 | 0.246 | 0.070 | ø33×35 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | Al _t | Al _s | Co | Bt | Bs | Pb | Sn | As | Sb | Bi | Ca | Zr | | | |
| NCS HS 93703-1 | Medium-Low Alloy Steel | 0.387 | 0.381 | 0.0047 | 0.025 | 0.023 | 0.0016 | 0.014 | 0.032 | (0.0001) | 0.0011 | 0.0009 | 0.0031 | | | |
| NCS HS 93703-2 | Medium-Low Alloy Steel | 0.92 | 0.91 | 0.262 | 0.0083 | 0.0080 | 0.0008 | 0.0069 | 0.0034 | 0.0020 | 0.0006 | 0.0010 | 0.087 | | | |
| NCS HS 93703-3 | Medium-Low Alloy Steel | 0.107 | 0.103 | 0.488 | 0.0041 | 0.0037 | 0.0007 | 0.054 | 0.0019 | 0.0040 | 0.0004 | 0.0010 | 0.014 | | | |
| NCS HS 93703-4 | Medium-Low Alloy Steel | 0.083 | 0.078 | 0.403 | 0.0050 | 0.0048 | 0.0006 | 0.012 | 0.056 | 0.0095 | (0.0002) | (0.0001) | 0.069 | | | |
| NCS HS 93703-5 | Medium-Low Alloy Steel | (1.29) | (1.27) | 0.094 | 0.0017 | 0.0015 | 0.0007 | 0.015 | 0.0064 | 0.010 | 0.0015 | 0.0007 | 0.41 | | | |
| NCS HS 93703-6 | Medium-Low Alloy Steel | 0.64 | 0.63 | 0.145 | 0.0033 | 0.0030 | 0.0011 | 0.017 | 0.011 | 0.0006 | (0.0002) | (0.0001) | 0.22 | | | |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (mm) | | |
|--------------|---------------------------|-------------------------------|--------|-------|--------|--------|-----------------|-----------------|-----------------|-----------------|-------|--------|-------|-------------------|-------------------|-------------------|
| | | C | Si | Mn | P | S | Cr | Al _s | Cu | Al _t | V | Ti | Mo | | | |
| NCS HS 13750 | Low Alloy Steel | 0.131 | 0.175 | 0.523 | 0.0126 | 0.0257 | 0.970 | | | | | | 0.172 | ø38×38 | | |
| NCS HS 13752 | Low Alloy Steel | 0.517 | 0.204 | 0.986 | 0.0261 | 0.0108 | 0.685 | | | | 0.094 | | 0.258 | ø38×38 | | |
| NCS HS 13753 | Low Alloy Steel | 0.592 | 0.464 | 0.481 | 0.040 | 0.0397 | 0.752 | | | | 0.122 | 0.0084 | 0.302 | ø38×38 | | |
| NCS HS 13754 | Low Alloy Steel | 0.136 | 0.444 | 0.624 | 0.131 | 0.021 | 0.856 | | 0.384 | | 0.192 | | 0.378 | ø38×38 | | |
| NCS HS 13755 | Low Alloy Steel | 0.420 | 0.301 | 0.924 | 0.024 | 0.020 | 0.960 | | | | | | 0.187 | ø38×38 | | |
| NCS HS 13756 | Low Alloy Steel | 0.032 | 0.204 | 0.279 | 0.159 | 0.023 | | | | 0.358 | 0.063 | | | ø38×38 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Al _s | Cu | Al _t | V | Ti | Mo | | | |
| NCS HS 13758 | Low Alloy Steel | 0.165 | 0.502 | 1.451 | 0.0176 | 0.0221 | 0.34 | | | | | 0.173 | 0.143 | ø38×35 | | |
| NCS HS 13759 | Low Alloy Steel | 0.199 | 0.410 | 1.302 | 0.0171 | 0.022 | 0.384 | | | | | | 0.161 | ø38×35 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al _t | V | Ti | Mo | N | | |
| NCS HS 15744 | 4Cr ₃ MoSiV | 0.374 | 1.04 | 0.335 | 0.0085 | 0.0079 | 5.11 | 0.085 | 0.133 | | 0.91 | | 1.23 | ø38×34 | | |
| NCS HS 15746 | Pure Iron | 0.017 | 0.214 | 0.151 | 0.010 | 0.0022 | 0.017 | 0.105 | 0.118 | 0.413 | | | | 0.006 | ø35×30 | |
| NCS HS 15747 | Pure Iron | 0.022 | 0.199 | 0.201 | 0.0072 | 0.0027 | 0.032 | 0.066 | 0.066 | 0.217 | | | | 0.012 | ø35×30 | |
| NCS HS 15748 | Pure Iron | 0.061 | 0.166 | 0.319 | 0.040 | 0.0050 | 0.022 | 0.020 | 0.020 | 0.284 | | | | 0.015 | ø35×30 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Al _t | Al _s | Bt | Bs | Cr | Ni | Mo | Co | | |
| NCS HS 15749 | Low Carbon Silicoon steel | 0.0045 | 1.54 | 0.247 | 0.010 | 0.0054 | 0.050 | 0.048 | 0.0026 | 0.0018 | | | | ø35×32 | | |
| NCS HS 15752 | Stainless steel | 0.023 | 0.659 | 1.16 | 0.030 | 0.0019 | 0.0039 | 0.0034 | | | 17.35 | 11.13 | 2.12 | 0.104 | ø40×40 | |
| NCS HS 15752 | Stainless steel | | Ti | Cu | V | N | Sb | Sn | As | | | | | | | |
| | | | 0.314 | | | 0.046 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Cr | Al _s | Cu | Al _t | As | Ti | Mo | | | |
| NCS HS 18741 | 35CrMo | 0.355 | 0.273 | 0.57 | 0.01 | 0.033 | 0.93 | 0.029 | 0.075 | 0.035 | 0.057 | 0.011 | 0.154 | ø37×30 | | |
| NCS HS 18742 | 16Mn | 0.152 | 0.305 | 1.26 | 0.012 | 0.023 | 0.121 | | 0.077 | | 0.034 | 0.018 | | ø37×30 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Al _t | Al _s | N | V | Ti | Mo | Cu | | |
| NCS HS 20741 | 1Cr13Mo | 0.125 | 0.0045 | 0.957 | 0.017 | 0.0045 | 12.91 | | | | | | 0.41 | ø35×40 | | |
| NCS HS 20742 | 1Cr17 | 0.083 | 0.636 | 1.02 | 0.015 | 0.0035 | 16.58 | | | | | | | ø35×40 | | |
| NCS HS 20743 | 0Cr11Ti | 0.015 | 0.97 | 0.949 | 0.038 | 0.0055 | 11.88 | 0.022 | 0.021 | 0.0155 | | 0.411 | | ø35×40 | | |
| NCS HS 20744 | (08F) | 0.068 | 0.022 | 0.331 | 0.018 | 0.03 | | | | | | | | ø35×40 | | |
| NCS HS 20745 | 10PCuRE | 0.068 | 0.33 | 0.813 | 0.1 | 0.024 | | | | | 0.022 | | 0.297 | ø35×40 | | |
| NCS HS 20747 | 09MnNb | 0.083 | 0.472 | 0.967 | 0.02 | 0.015 | | | | | | | | ø35×40 | | |
| NCS HS 20745 | 10PCuRE | | Ca | Ce | Nb | La | | | | | | | | | | |
| | | | | 0.014 | | 0.0076 | | | | | | | | | | |
| NCS HS 20747 | 09MnNb | | | | 0.052 | | | | | | | | | | | |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (mm) | | | |
|----------------|-------------------|-------------------------------|---------|--------|--------|---------|-------|-------|-------|-------|-------|--------|--------|-------------------|-------------------|--|-------------------|
| | | C | Si | Mn | P | S | Cr | Ni | Al | Co | Ti | Mo | Cu | | | | |
| NCS HS 31741 | 3Cr13 | 0.298 | 0.277 | 0.330 | 0.026 | 0.019 | 12.75 | 0.271 | | 0.035 | | 0.067 | 0.109 | ø38×30 | | | |
| NCS HS 31742 | 1Cr18Ni9Ti | 0.096 | 0.566 | 1.27 | 0.030 | 0.005 | 17.25 | 8.22 | 0.098 | 0.112 | 0.555 | 0.132 | 0.307 | ø38×30 | | | |
| NCS HS 31743 | 304L(00Cr19Ni10) | 0.028 | 0.445 | 0.98 | 0.050 | 0.009 | 17.94 | 8.18 | | 0.144 | | 0.298 | 1.23 | ø38×30 | | | |
| NCS HS 31744 | 316(0Cr17Ni12Mo2) | 0.083 | 0.463 | 1.37 | 0.043 | 0.014 | 16.71 | 10.14 | 0.010 | 0.207 | | 1.91 | 0.537 | ø38×30 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Mo | Nb | Cu | As | Sn | V | | | |
| NCS HS 41742 | Stainless steel | 0.026 | 0.386 | 0.659 | 0.031 | 0.00052 | 25.05 | 6.38 | 3.45 | 0.011 | 0.155 | 0.0045 | 0.0039 | 0.049 | ø38×38 | | |
| NCS HS 41743 | Stainless steel | 0.047 | 0.542 | 0.691 | 0.035 | 0.0044 | 15.85 | 3.53 | 0.195 | 0.202 | 3.37 | 0.0097 | 0.013 | 0.067 | ø38×38 | | |
| NCS HS 41744 | Stainless steel | 0.137 | 0.297 | 7.98 | 0.045 | 0.0091 | 16.01 | 4.12 | 0.052 | | 0.123 | 0.0043 | 0.0046 | 0.049 | ø38×38 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | | Unit Size (mm) |
| | | Co | W | N | | | | | | | | | | | | | |
| NCS HS 41742 | Stainless steel | 0.063 | 0.018 | 0.237 | | | | | | | | | | | | | |
| NCS HS 41743 | Stainless steel | 0.063 | 0.058 | 0.014 | | | | | | | | | | | | | |
| NCS HS 41744 | Stainless steel | 0.078 | 0.0055 | 0.049 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Mo | Nb | Cu | Pb | As | Sn | | | |
| NCS HS 93701-1 | Middle low alloy | 0.062 | 1.23 | 0.093 | 0.024 | 0.0060 | 1.85 | 0.30 | 4.19 | 0.85 | 0.22 | 0.038 | 0.004 | 0.0020 | ø36×30 | | |
| NCS HS 93701-2 | Middle low alloy | 0.111 | 0.32 | 0.934 | 0.015 | 0.0041 | 2.48 | 0.59 | 4.05 | 1.04 | 0.177 | 0.017 | 0.011 | 0.0083 | ø36×30 | | |
| NCS HS 93701-3 | Middle low alloy | 0.164 | 0.98 | 0.379 | 0.0099 | 0.0133 | 3.86 | 0.813 | 2.43 | 0.72 | 0.109 | 0.012 | 0.0146 | 0.0215 | ø36×30 | | |
| NCS HS 93701-4 | Middle low alloy | 0.309 | 0.198 | 1.06 | 0.0081 | 0.0126 | 4.83 | 0.480 | 1.86 | 0.290 | 0.31 | 0.007 | 0.0174 | 0.0180 | ø36×30 | | |
| NCS HS 93701-5 | Middle low alloy | 0.429 | 0.71 | 0.76 | 0.0082 | 0.0398 | 3.08 | 0.930 | 2.93 | 0.472 | 0.38 | 0.0066 | 0.069 | 0.037 | ø36×30 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | | Unit Size (mm) |
| | | Sb | Bi | Zr | | | | | | | | | | | | | |
| NCS HS 93701-1 | Middle low alloy | 0.0515 | 0.0019 | 0.103 | | | | | | | | | | | | | |
| NCS HS 93701-2 | Middle low alloy | 0.035 | 0.0064 | 0.57 | | | | | | | | | | | | | |
| NCS HS 93701-3 | Middle low alloy | 0.032 | 0.0102 | 0.436 | | | | | | | | | | | | | |
| NCS HS 93701-4 | Middle low alloy | 0.0077 | 0.013 | 0.112 | | | | | | | | | | | | | |
| NCS HS 93701-5 | Middle low alloy | 0.00403 | 0.0203 | 0.234 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | | | | | | | | | |
| NCS HS 93702-1 | Alloy steel | 0.053 | 1.37 | 5.02 | 0.055 | 0.0027 | 17.51 | 2.44 | | | | | | | ø38×30 | | |
| NCS HS 93702-2 | Alloy steel | 0.18 | 1.04 | 6.60 | 0.038 | 0.010 | 15.26 | 3.61 | | | | | | | ø38×30 | | |
| NCS HS 93702-3 | Alloy steel | 0.28 | 0.94 | 8.37 | 0.024 | 0.016 | 12.67 | 4.56 | | | | | | | ø38×30 | | |
| NCS HS 93702-4 | Alloy steel | 0.35 | 0.74 | 11.00 | 0.018 | 0.025 | 10.72 | 5.67 | | | | | | | ø38×30 | | |
| NCS HS 93702-5 | Alloy steel | 0.42 | 0.40 | 12.93 | 0.011 | 0.033 | 8.22 | 6.68 | | | | | | | ø38×30 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mo | V | Ti | Al | Co | | | |
| NCS HS 28741 | Stainless Steel | 0.039 | 0.425 | 1.07 | 0.037 | 0.016 | 18.31 | 8.19 | 0.399 | 0.027 | 0.106 | 0.002* | | 0.208 | ø38×35 | | |
| NCS HS 28742 | Stainless Steel | 0.021 | 0.414 | 0.94 | 0.034 | 0.0028 | 18.2 | 8.11 | 0.043 | 0.025 | 0.089 | 0.006 | | 0.216 | ø38×35 | | |
| NCS HS 28743 | Stainless Steel | 0.11 | 0.78 | 0.841 | 0.024 | 0.0082 | 23.71 | 18.02 | 0.089 | 0.115 | 0.077 | 0.003* | 0.0056 | 0.102 | ø38×35 | | |
| NCS HS 28744 | Stainless Steel | 0.067 | 0.435 | 1.1 | 0.028 | 0.021 | 16.8 | 10.39 | 0.166 | 2.01 | 0.048 | 0.006* | 0.012 | 0.063 | ø38×35 | | |
| NCS HS 28745 | Stainless Steel | 0.018 | 0.317 | 1.17 | 0.042 | 0.0057 | 16.61 | 10.34 | 0.334 | 2.05 | 0.07 | 0.002* | | 0.185 | ø38×35 | | |
| NCS HS 28746 | Stainless Steel | 0.021 | 0.51 | 1.87 | 0.031 | 0.0009 | 17.19 | 8.24 | 0.34 | 0.069 | 0.096 | 0.184 | 0.086 | 0.191 | ø38×35 | | |
| NCS HS 28747 | Stainless Steel | 0.132 | 0.502 | 0.453 | 0.027 | 0.0068 | 16.24 | 1.79 | 0.126 | 0.153 | 0.075 | 0.002* | | 0.051 | ø38×35 | | |
| NCS HS 28748 | Stainless Steel | 0.045 | 0.644 | 0.742 | 0.028 | 0.013 | 15.88 | 3.85 | 3.23 | 0.259 | 0.076 | 0.002* | | 0.119 | ø38×35 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | | |
| | | Nb | Sn | Pb | N | As | | | | | | | | | | | |
| NCS HS 28741 | Stainless Steel | | 0.0051 | 0.0001 | 0.069 | 0.0035 | | | | | | | | | | | |
| NCS HS 28742 | Stainless Steel | | 0.0001* | 0.0001 | 0.059 | 0.0025 | | | | | | | | | | | |
| NCS HS 28743 | Stainless Steel | 0.016 | 0.0025 | 0.0004 | 0.057 | 0.0042 | | | | | | | | | | | |
| NCS HS 28744 | Stainless Steel | 0.027 | 0.0034 | 0.0005 | 0.063 | 0.0037 | | | | | | | | | | | |
| NCS HS 28745 | Stainless Steel | | 0.0073 | 0.0001 | 0.07 | 0.0055 | | | | | | | | | | | |
| NCS HS 28746 | Stainless Steel | | 0.0065 | 0.0002 | 0.011 | 0.0032 | | | | | | | | | | | |
| NCS HS 28747 | Stainless Steel | | 0.0057 | 0.0001 | 0.03 | 0.0063 | | | | | | | | | | | |
| NCS HS 28748 | Stainless Steel | 0.23 | 0.0063 | 0.0001 | 0.03 | 0.0047 | | | | | | | | | | | |

Section 2 Iron, Steel & Alloy(Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
|----------------|---------------------------|-------------------------------|--------|--------|--------|--------|-------|-------|--------|-------|-------|-------|--------|-------|----------------|--------|
| | | C | S | Mn | Si | P | Ni | Cr | Fe | Mo | Ti | Al | Cu | V | | |
| NCS HS 41745 | Nickel-based superalloy | 0.043 | 0.0006 | 0.124 | 0.071 | 0.0023 | 63.72 | 20.69 | 3.50 | 8.37 | 0.011 | 0.016 | | | ø40×30 | |
| NCS HS 41746 | Nickel-based superalloy | 0.027 | 0.0005 | 0.057 | 0.080 | 0.0033 | 52.27 | 18.56 | 18.54 | 3.28 | 1.03 | 0.635 | 0.023 | | ø40×30 | |
| NCS HS 41747 | Corrosion-resisting alloy | 0.071 | 0.0006 | 0.807 | 0.36 | 0.015 | 32.27 | 20.72 | | 0.297 | 0.49 | 0.299 | 0.038 | | ø38×30 | |
| NCS HS 41748 | Stainless Steel | 0.194 | 0.011 | 0.62 | 0.54 | 0.016 | 0.077 | 12.70 | | 0.010 | | | 0.008 | 0.048 | ø38×38 | |
| NCS HS 41749 | Stainless Steel | 0.21 | 0.012 | 0.39 | 0.56 | 0.023 | 1.52 | 12.27 | | | | | 1.15 | 0.074 | ø38×38 | |
| NCS HS 41750 | Stainless Steel | 0.075 | 0.012 | 1.43 | 0.33 | 0.031 | 6.35 | 16.31 | | 0.107 | | 0.009 | 0.276 | 0.064 | ø38×38 | |
| NCS HS 41751 | Stainless Steel | 0.039 | 0.200 | 1.81 | 0.353 | 0.035 | 8.12 | 17.22 | | 0.044 | | | 0.124 | 0.121 | ø38×38 | |
| NCS HS 41752 | Stainless Steel | 0.97 | 0.0016 | 0.46 | 0.48 | 0.023 | 0.192 | 17.61 | | 0.057 | | | 0.082 | 0.088 | ø38×38 | |
| NCS HS 41753 | Stainless Steel | 0.013 | 0.0057 | 1.45 | 0.42 | 0.025 | 24.40 | 19.27 | | 4.29 | | | 1.51 | 0.093 | ø38×38 | |
| | | Ta* | Ta** | Co | B | Nb | Co* | Mo | N | Ti* | Al* | Pb* | Nb* | | | |
| NCS HS 41745 | Nickel-based superalloy | | 0.001 | | | 3.19 | 0.011 | | | | | | | | | |
| NCS HS 41746 | Nickel-based superalloy | 0.008 | | 0.111 | 0.0025 | 5.15 | | | | | | | | | | |
| NCS HS 41747 | Corrosion-resisting alloy | | | 0.050 | | | | | | | | | | | | |
| NCS HS 41749 | Stainless Steel | | | | | | 0.158 | | | | | | | | | |
| NCS HS 41750 | Stainless Steel | | | | | | | 0.058 | 0.001 | | | | | | | |
| NCS HS 41751 | Stainless Steel | | | | | | | 0.064 | 0.001 | 0.004 | 0.001 | | | | | |
| NCS HS 41752 | Stainless Steel | | | | | | | | | 0.032 | | | | | | |
| NCS HS 41753 | Stainless Steel | | | | | | | 0.020 | 0.0013 | 0.012 | | | 0.012 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | S | Mn | Si | P | Cr | Ni | Cu | Mo | Al | V | Ti | Mo | | |
| NCS HS 41754 | Alloy Structure Steel | 0.197 | 0.0055 | 1.01 | 0.28 | 0.008 | 1.33 | 0.060 | 0.010 | 0.26 | 0.017 | 0.005 | 0.003 | | ø38×32 | |
| NCS HS 41755 | Alloy Structure Steel | 0.23 | 0.004 | 0.27 | 0.044 | 0.0046 | 1.64 | 3.40 | | | | | | 0.37 | ø38×38 | |
| NCS HS 41756 | Alloy Structure Steel | 0.205 | 0.002 | 0.60 | 0.25 | 0.011 | 0.93 | 0.012 | 0.008 | 0.17 | | 0.004 | 0.004 | | ø38×32 | |
| NCS HS 41757 | Easy cutting Steel | 0.079 | 0.28 | 1.01 | 0.018 | 0.055 | 0.047 | 0.058 | 0.17 | 0.012 | | | | | ø38×32 | |
| NCS HS 41758 | Easy cutting Steel | 0.079 | 0.30 | 0.986 | 0.015 | 0.056 | 0.023 | 0.051 | 0.15 | 0.049 | | | | | ø38×32 | |
| NCS HS 41759 | Alloy Structure Steel | 0.21 | 0.008 | 0.57 | 0.21 | 0.012 | 0.78 | 0.015 | 0.025 | | 0.017 | 0.003 | 0.0034 | | ø38×32 | |
| NCS HS 41760 | Stainless steel | 0.153 | 0.0071 | 0.56 | 0.26 | 0.035 | 16.30 | 1.92 | 0.078 | 0.055 | 0.005 | 0.081 | 0.002 | | ø38×38 | |
| NCS HS 41761 | Alloy Structure Steel | 0.121 | 0.0026 | 0.463 | 0.335 | 0.014 | 8.71 | 0.064 | 0.055 | 0.93 | 0.005 | 0.21 | | | ø38×38 | |
| | | V | Sn | Pb | As | Nb | N | | | | | | | | | |
| NCS HS 41755 | Alloy Structure Steel | 0.080 | | | | | | | | | | | | | | |
| NCS HS 41757 | Easy cutting Steel | | 0.019 | 0.26 | 0.025 | | | | | | | | | | | |
| NCS HS 41758 | Easy cutting Steel | | 0.020 | 0.018 | 0.026 | | | | | | | | | | | |
| NCS HS 41760 | Stainless steel | | | | | 0.012 | | | | | | | | | | |
| NCS HS 41761 | Alloy Structure Steel | | | | | 0.072 | 0.040 | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Cr | Ni | Mo | V | Cu | Ti | W | B | | Nb |
| NCS HS 92703-1 | High Chromium Cast Iron | 3.31 | 0.098 | 1.54 | 0.369 | 0.0047 | 1.17 | 2.57 | 1.47 | 0.952 | 0.449 | / | 0.015 | 0.177 | 0.018 | ø30×30 |
| NCS HS 92703-2 | High Chromium Cast Iron | 2.96 | 0.491 | 1.24 | 0.211 | 0.0077 | 9.75 | 1.99 | 2.17 | 0.669 | 1.57 | 0.300 | 1.99 | 0.142 | 0.182 | ø30×30 |
| NCS HS 92703-3 | High Chromium Cast Iron | 2.40 | 0.821 | 1.06 | 0.115 | 0.015 | 13.30 | 1.55 | 0.869 | 0.482 | 0.953 | 0.171 | 1.57 | 0.102 | 0.149 | ø30×30 |
| NCS HS 92703-4 | High Chromium Cast Iron | 2.00 | 1.16 | 0.803 | 0.090 | 0.025 | 18.28 | 1.07 | 0.598 | 0.380 | 0.738 | 0.087 | 1.05 | 0.086 | 0.071 | ø30×30 |
| NCS HS 92703-5 | High Chromium Cast Iron | 1.48 | 1.37 | 0.579 | 0.041 | 0.058 | 22.55 | 0.708 | 0.359 | 0.314 | 0.583 | 0.056 | 0.694 | 0.076 | 0.022 | ø30×30 |
| NCS HS 92703-6 | High Chromium Cast Iron | 1.16 | 1.44 | 0.302 | 0.033 | 0.086 | 25.76 | 0.289 | 0.150 | 0.146 | 0.845 | 0.019 | 0.370 | 0.055 | 0.014 | ø30×30 |
| NCS HS 92703-7 | High Chromium Cast Iron | 3.13 | 2.48 | 0.201 | 0.024 | 0.116 | 31.26 | 0.129 | 0.086 | 0.087 | 0.154 | 0.033 | 0.175 | 0.015 | 0.010 | ø30×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Cr | Ni | Mo | V | Cu | Mg | Ti | B | | |
| NCS HS 92744 | Alloy Cast Iron | 3.58 | 1.74 | 0.44 | 0.034 | 0.018 | 0.50 | 0.59 | 0.18 | 0.20 | 0.26 | 0.039 | 0.055 | 0.019 | ø30×27 | |
| NCS HS 92745 | Alloy Cast Iron | 3.69 | 1.50 | 0.49 | 0.063 | 0.049 | 0.47 | 0.23 | 0.22 | 0.11 | 0.34 | | | | ø30×30 | |
| NCS HS 92746 | Alloy Cast Iron | 3.36 | 2.44 | 0.231 | 0.040 | 0.0060 | 0.16 | 2.24 | | | | 0.033 | 0.073 | | ø30×30 | |
| | | Sn | Sb | Ce | | | | | | | | | | | | |
| NCS HS 92744 | Alloy Cast Iron | 0.0045 | | | | | | | | | | | | | | |
| NCS HS 92745 | Alloy Cast Iron | | 0.12 | | | | | | | | | | | | | |
| NCS HS 92746 | Alloy Cast Iron | | | 0.0060 | | | | | | | | | | | | |

Section 3 Ferroalloy(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | | |
|---------------|-----------------------------|-------------------------------|---------------------|--------|---------------------|--------|--------|--------|--------|---------|--------|---------------------|--------|---------------------|-------|---------------------|
| | | C | Si | Mn | P | S | Cr | Cu | Al | Ca | Fe | | | | | |
| NCS HC 11601a | Ferro Silicon | 0.073 | 73.75 | 0.26 | 0.023 | 0.003 | 0.085 | 0.031 | 1.14 | 0.34 | | | | | 100 | |
| NCS HC 11602 | High Carbon Ferromanganese | 6.72 | 0.43 | 73.88 | 0.152 | 0.005 | | 0.080 | | | | | 18.14 | | 100 | |
| NCS HC 11603a | Mn-Si Alloy | 1.33 | 17.49 | 65.67 | 0.065 | 0.011 | | | | | | | | | 100 | |
| NCS HC 11603b | Mn-Si Alloy | 1.34 | 17.63 | 66.37 | 0.065 | 0.008 | | | | | | | | | 100 | |
| NCS HC 11604a | Si-Ca Alloy | 0.94 | 56.02 | 0.037 | 0.054 | 0.073 | | | 1.97 | 30.45 | 6.93 | | | | 50 | |
| NCS HC 11606 | High Carbon Ferrochromium | 6.37 | 4.29 | 0.32 | 0.023 | 0.013 | 64.17 | | | | | | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mg | Al | | Ca | Ba | TFe | Sr |
| NCS HC 11605 | Si-Ca-Ba-Sr | 0.385 | 53.46 | 0.075 | 0.014 | 0.039 | 0.054 | 0.023 | 0.079 | 0.022 | 2.34 | 13.22 | 14.02 | 13.57 | 0.235 | 60 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | | |
| | | Si | Ca | Ba | Al | Mn | P | C | S | Fe | | | | | | |
| NCS HC 13602 | Si-Al-Ba-Alloy | 32.01 | 1.17 | 7.41 | 32.55 | 0.197 | 0.017 | 0.27 | 0.0096 | 20.59 | 0.85 | | | | 50 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Cu | Al | Ca | Fe | Ni | Ba | | | |
| NCS HC 14602 | Si-Al-Ba | 0.14 | 19.21 | 0.25 | 0.015 | 0.013 | 0.017 | 0.137 | 32.82 | 0.85 | 38.09 | 0.014 | 6.52 | | 70 | |
| NCS HC 14603 | Si-Al-Ba | 0.13 | 24.12 | 0.14 | 0.015 | 0.015 | 0.085 | 0.061 | 32.84 | 0.71 | 33.54 | 0.042 | 7.57 | | 70 | |
| NCS HC 14604 | Si-Al-Ba | 0.24 | 19.21 | 0.25 | 0.011 | 0.011 | 0.053 | 0.172 | 25.44 | 0.44 | 49.14 | 0.018 | 2.64 | | 70 | |
| NCS HC 14605 | Si-Al-Ba | 0.13 | 25.94 | 0.12 | 0.018 | 0.012 | 0.152 | 0.045 | 36.67 | 1.35 | 24.97 | 0.167 | 9.12 | | 60 | |
| NCS HC 14606 | Ferro Silicon | 0.024 | 78.96 | 0.058 | 0.0093 | 0.0037 | 0.0053 | 0.049 | 0.24 | 0.064 | 20.24 | 0.035 | 0.0060 | | 70 | |
| NCS HC 14607 | Ferro Silicon | 0.19 | 55.73 | 0.22 | 0.038 | 0.0048 | 0.014 | 0.060 | 0.78 | 0.14 | 41.89 | 0.0063 | 0.0043 | | 70 | |
| NCS HC 14608 | Si-Al-Ca-Ba Alloy | 0.13 | 0.021 | 0.17 | 0.022 | 0.021 | 0.021 | 0.176 | 9.14 | 8.28 | 14.22 | 0.0061 | 12.39 | | 80 | |
| NCS HC 14609 | Si-Al-Ca-Ba Alloy | 0.22 | 33.41 | 0.33 | 0.018 | 0.017 | 0.116 | 0.32 | 14.46 | 5.74 | 35.46 | 0.016 | 7.72 | | 80 | |
| NCS HC 14610 | Si-Al-Ca-Ba Alloy | 0.24 | 40.58 | 0.23 | 0.021 | 0.025 | 0.032 | 0.29 | 13.47 | 8.25 | 23.25 | 0.012 | 10.70 | | 80 | |
| NCS HC 14611 | Si-Al-Ca-Ba Alloy | 1.56 | 56.74 | 0.065 | 0.016 | 0.14 | 0.0044 | 0.0097 | 1.47 | 13.61 | 5.77 | 0.0020 | 17.00 | | 80 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | | |
| | | V | Co | Ti | B | Mo | Mg | Sn | As | O | Sr | | | | | |
| NCS HC 14606 | Ferro Silicon | 0.0024 | 0.0031 | 0.032 | 0.0029 | 0.0013 | 0.0051 | 0.0003 | 0.0012 | (0.256) | | | | | | |
| NCS HC 14607 | Ferro Silicon | 0.011 | 0.0047 | 0.119 | 0.0032 | 0.011 | 0.0068 | 0.0004 | 0.0015 | (0.665) | | | | | | |
| NCS HC 14608 | Si-Al-Ca-Ba Alloy | | 0.0022 | 0.084 | | | 0.21 | | | | 0.132 | | | | | |
| NCS HC 14609 | Si-Al-Ca-Ba Alloy | | | 0.055 | | | 0.18 | | | | 0.092 | | | | | |
| NCS HC 14610 | Si-Al-Ca-Ba Alloy | | | 0.124 | | | 0.12 | | | | 0.094 | | | | | |
| NCS HC 14611 | Si-Al-Ca-Ba Alloy | | | 0.126 | | | 0.045 | | | | 0.22 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Mg | Al | Ca | Ba | TFe | Sr | |
| NCS HC 14612 | Ferro Silicon | 0.016 | 77.49 | 0.02 | 0.0074 | 0.003 | 0.0044 | 0.016 | 0.011 | | 0.0074 | 0.0067 | 22.12 | | 80 | |
| NCS HC 14613 | High Carbon Ferrochromium | 7.56 | 2.58 | 0.18 | 0.02 | 0.032 | 54.04 | | | | | | | | 50 | |
| NCS HC 14614 | High Carbon Ferrochromium | 7.67 | 2.57 | 0.28 | 0.018 | 0.032 | 55.81 | | | | | | | | 50 | |
| NCS HC 14615 | High Carbon Ferrochromium | 8.07 | 2.3 | 0.23 | 0.017 | 0.045 | 56.16 | | | | | | | | 50 | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | | | | | | | | | | | |
| | | Co | Ti | B | | | | | | | | | | | | |
| NCS HC 14612 | Ferro Silicon | 0.0012 | 0.011 | 0.0022 | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | |
| | | C | Si | Mn | P | S | Cr | Cu | Al | Ca | Fe | Ni | Ti | | Mo | |
| NCS HC 15601 | Ferro Titanium | 0.057 | 1.47 | 0.106 | 0.0071 | 0.0047 | 0.039 | 0.037 | 0.3 | | 26.57 | 0.29 | 70.02 | 0.028 | 50 | |
| NCS HC 15602 | Ferro Silicon | 0.0074 | 75.9 | 0.149 | 0.014 | 0.0035 | 0.077 | 0.057 | 0.011 | 0.0013 | 23.65 | 0.026 | 0.027 | | 50 | |
| NCS HC 15604 | Manganese | 0.154 | 0.92 | 95.52 | 0.032 | 0.019 | | | | | 3.37 | | | | 100 | |
| NCS HC 15605 | Extra carbon ferromanganese | 0.056 | 0.19 | 85.95 | 0.030 | 0.011 | | | | | 13.83 | | | | 100 | |
| NCS HC 15606 | Extra carbon ferromanganese | 0.047 | 0.47 | 92.92 | 0.020 | 0.012 | | | | | 6.64 | | | | 100 | |
| NCS HC 15607 | Extra carbon ferromanganese | 0.135 | 0.73 | 82.59 | 0.033 | 0.0074 | | | | | 16.59 | | | | 100 | |
| Number | Name | Chemical Composition(Percent) | Unit Size (in g) | | | | | | | | | | | | | |
| | | V | | | | | | | | | | | | | | |
| NCS HC 15601 | Ferro Titanium | 0.011 | | | | | | | | | | | | | | |
| NCS HC 15602 | Ferro Titanium | 0.0036 | | | | | | | | | | | | | | |

Section 3 Ferroalloy(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|---------------|-------------------------------|-------------------------------|------------------|-----------------|---------|--------|-------|-------|-------|-------|-------|-------|--------|-------|---------------------|
| | | C | Si | Mn | P | S | Cr | Cu | Al | Ca | Ni | Ti | Nb | Ta | |
| NCS HC 18601 | Ferro Silicon | 0.19 | 72.44 | 0.205 | 0.019 | 0.010 | 0.109 | | 2.16 | 0.64 | | | | | 50 |
| NCS HC 18603 | Si-Mn alloy | 1.70 | 17.21 | 66.70 | 0.183 | 0.025 | | | | | | | | | 50 |
| NCS HC 18604 | Ferro Titanium | 0.065 | 4.68 | 2.67 | 0.043 | 0.013 | | 0.117 | 5.38 | | 27.93 | | | | 50 |
| NCS HC 18606 | Ferro Niobium | 0.070 | 1.09 | 0.29 | 0.159 | 0.008 | | | 1.35 | | 0.78 | 66.24 | 0.084 | | 50 |
| NCS HC 18608 | Ferro Vanadium | 0.403 | 0.76 | 0.26 | 0.049 | 0.043 | | | 0.158 | | | | | | 50 |
| | | Mo | V | | | | | | | | | | | | |
| NCS HC 18608 | Ferro Vanadium | | 48.93 | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | Cr | Al | Ca | Fe | S | V | Sn | Ti | Cu | |
| NCS HC 19602 | Ferro Silicon | 0.12 | 69.47 | 0.308 | 0.027 | 0.077 | 2.45 | 2.47 | 23.81 | | | | | | 100 |
| NCS HC 19604 | Ferro Titanium | 0.041 | 3.46 | 1.59 | 0.051 | | 10.64 | | | 0.011 | 0.158 | 0.056 | 43.82 | | 100 |
| NCS HC 19605 | Ferro Titanium | 0.032 | 4.20 | 0.81 | 0.032 | | 8.58 | | | 0.009 | 0.303 | 0.061 | 38.78 | | 100 |
| NCS HC 19606 | Ferro Vanadium | 0.565 | 0.68 | 0.43 | 0.087 | 0.32 | 0.084 | | | 0.010 | 51.14 | | | | 50 |
| NCS HC 19607 | Silicon Manganese Alloy | 1.56 | 18.41 | 66.20 | 0.126 | | | | | 0.022 | | | | | 50 |
| NCS HC 19608 | Ferro Molybdenum | 0.042 | 0.32 | | 0.032 | | | | | 0.073 | | | | 0.134 | 50 |
| NCS HC 19609 | Ferro Molybdenum | 0.039 | 0.039* | | 0.041 | | | | | 0.085 | | | | 0.36 | 25 |
| NCS HC 19610 | Vanadium pentoxide | | 0.40 | | 0.007 | 0.099 | | | 0.43 | 0.014 | | | | | 50 |
| NCS HC 19611 | Vanadium pentoxide | | 0.102 | | 0.010 | 0.018 | | | 0.061 | 0.011 | | | | | 50 |
| | | V ₂ O ₅ | K ₂ O | Na ₂ | As | Mo | | | | | | | | | |
| NCS HC 19608 | Ferro Molybdenum | | | | | 61.20 | | | | | | | | | |
| NCS HC 19609 | Ferro Molybdenum | | | | | 58.13 | | | | | | | | | |
| NCS HC 19610 | Vanadium pentoxide | 96.68 | 0.18 | 0.96 | <0.001 | | | | | | | | | | |
| NCS HC 19611 | Vanadium pentoxide | 98.80 | 0.14 | 1.03 | <0.001 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | C | Si | Mn | P | S | Cr | Cu | Al | Ti | W | Mo | B | Ca | |
| NCS HC 25602a | Ferromolybdenum | 0.020 | 0.20 | | 0.031 | 0.042 | | 0.159 | | | | 62.19 | | | 50 |
| NCS HC 25603b | High Carbon Ferro Chrome | 7.37 | 1.27 | 0.31 | 0.020 | 0.015 | 65.27 | | | 0.104 | | | | | 50 |
| NCS HC 25605a | Si-Mn alloy | 1.09 | 18.28 | 66.3 | 0.145 | 0.0104 | | | | 0.18 | | | 0.0063 | | 50 |
| NCS HC 25605b | Si-Mn Alloy | | 14.20 | 69.77 | 0.153 | 0.0052 | | | | | | | | 2.21 | 50 |
| NCS HC 25606 | Ferro Tungsten | 0.055 | 0.34 | 0.12 | (0.028) | 0.048 | | 0.043 | | | 76.66 | | | | 50 |
| NCS HC 25606a | Ferro Tungsten | 0.036 | 0.34 | 0.102 | 0.033 | 0.052 | | 0.079 | | | 76.24 | | | | 50 |
| NCS HC 25616 | Ferro Silicon | 0.081 | 76.74 | 0.17 | 0.02 | 0.004 | 0.14 | | 1.80 | | | | | 0.30 | 50 |
| NCS HC 25618 | Ferro Silicon | 0.066 | 76.42 | 0.14 | 0.025 | 0.003 | 0.097 | | 0.78 | | | | | 0.19 | 50 |
| NCS HC 25619a | Medium Carbon Ferro Manganese | 1.18 | 0.75 | 81.95 | 0.163 | 0.0018 | | | | | | | | | 50 |
| NCS HC 25619b | Medium Carbon Ferro Manganese | 1.2 | 0.75 | 81.74 | 0.163 | 0.0018 | | | | | | | | | 50 |
| NCS HC 25620 | Medium Carbon Ferro Manganese | 1.50 | 0.94 | 80.48 | 0.153 | 0.0030 | | | | | | | | | 50 |
| NCS HC 25621 | Medium Carbon Ferro Manganese | 1.40 | 1.51 | 79.44 | 0.344 | 0.0029 | | | | | | | | | 50 |
| NCS HC 25627 | Ferro Silicon | 0.081 | 76.74 | 0.172 | 0.023 | 0.004 | 0.140 | | 1.80 | | | | | 0.30 | 50 |
| NCS HC 25629 | Low Carbon Ferro Manganese | 0.300 | 0.63 | 84.28 | 0.196 | 0.0018 | | | | | | | | | 50 |
| NCS HC 25629a | Low Carbon Ferro Manganese | 0.31 | 1.06 | 81.68 | 0.196 | 0.0022 | | | | | | | | | 50 |
| NCS HC 25629b | Low Carbon Ferro Manganese | 0.560 | 0.96 | 80.79 | 0.169 | 0.0024 | | | | | | | | | 50 |
| | | Co | Ni | V | Fe | Sn | As | | | | | | | | |
| NCS HC 25603b | High Carbon Ferro Chrome | 0.044 | 0.39 | 0.138 | 24.90 | | | | | | | | | | |
| NCS HC 25606a | Ferro Tungsten | | | | | 0.041 | 0.041 | | | | | | | | |

Section 3 Ferroalloy(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|---------------|-----------------------------|-------------------------------|---------|---------|--------|--------|-------------------------------|--------|------------------|---------------------|--------|-------|-------|--------|---------------------|
| | | Cr | Si | Mn | P | S | S | Al | Ca | Cu | Ni | B | Ti | N | |
| NCS HC 25632 | High Carbon Ferro Manganese | | 0.69 | 78.41 | 0.204 | 6.68 | 0.0086 | | | | | | | | 50 |
| NCS HC 25633 | Silicon chrome Alloy | 33.90 | 44.06 | 0.29 | 0.013 | 0.045 | 0.002 | 1.00 | | | | | | | 50 |
| NCS HC 25635 | Low Carbon Ferro Chrome | 67.23 | 1.02 | 0.31 | 0.028 | 0.051 | 0.003 | | | | 0.30 | | | | 50 |
| NCS HC 25640 | Si-Mn alloy | 66.85 | 24.74 | 65.85 | 0.104 | 0.181 | 0.010 | | | | 0.30 | | | | 50 |
| NCS HC 25641 | Silicox Manganese | | 27.88 | 60.29 | 0.078 | 0.082 | 0.0069 | | | | 0.30 | 0.021 | 0.11 | | 50 |
| NCS HC 25642 | Nitrided Ferro Manganese | | 1.70 | 71.02 | 0.183 | 1.11 | 0.0065 | | | | | | | 1.92 | 50 |
| NCS HC 25643 | Silicon chrome | 32.62 | 19.17 | 0.129 | 0.0083 | 0.018 | 0.0025 | 1.24 | | | | | | | 50 |
| NCS HC 25644 | High nitrogen Fe-Cr | 62.57 | 0.75 | | 0.024 | 0.0064 | 0.029 | | | | | | | 8.69 | 50 |
| NCS HC 25646 | Si-Mn alloy | | 32.90 | 59.34 | 0.043 | 0.018 | 0.0034 | | | | | 0.048 | 0.24 | | 50 |
| NCS HC 25647 | Low carbon Fe-Si | 0.010 | 77.42 | 0.074 | 0.012 | 0.0068 | 0.003 | 0.011 | 0.003 | | | | 0.043 | | 50 |
| NCS HC 25648 | Silicon | | | | 0.0065 | | | 0.026 | 0.055 | | | | 0.023 | | 50 |
| NCS HC 25649 | Silicon | | | | 0.0067 | | | 0.032 | 0.06 | | | | 0.026 | | 50 |
| NCS HC 25650 | Ferro niobium | | | | 0.085 | 0.074 | 0.028 | 0.89 | | 0.023 | | | 0.49 | | 50 |
| NCS HC 25651 | Medium carbon Fe-Cr | 63.31 | 2.04 | 0.47 | 0.023 | 2.55 | 0.047 | | | | | | | | 50 |
| NCS HC 25652 | Nitride Fe-Si | | 51.85 | | 0.014 | 0.35 | 0.003 | | | | | | 0.052 | 28.15 | 50 |
| NCS HC 25653 | High carbon Fe-Cr | 62.49 | 0.15 | 0.11 | 0.025 | 8.70 | 0.024 | | | | | | 0.016 | | 50 |
| NCS HC 25654 | Silicon manganese | | 19.26 | 65.29 | 0.109 | 0.876 | 0.0122 | | | | | 0.022 | 0.19 | | 50 |
| NCS HC 25655 | Manganese | | 0.28 | 97.43 | 0.018 | 0.080 | 0.016 | | | | | | | | 50 |
| NCS HC 25656 | Ferro nickel | 3.63 | 1.04 | | 0.039 | 3.06 | 0.246 | | | | 12.16 | | | | 50 |
| NCS HC 25657 | Si-Mn alloy | | 25.03 | 67.96 | 0.065 | 0.58 | 0.011 | | | | | | 0.18 | | 50 |
| NCS HC 25658 | Ferro boron | | 1.68 | | 0.017 | 0.022 | 0.016 | 0.99 | | | | | 20.58 | | 50 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | Cr | Si | Mn | P | S | S | Al* | Mo | Cu | Ni | V | Ti | Zn* | |
| NCS HC 26607b | High Carbon Ferrochrome | 65.86 | 2.18 | 0.38 | 0.017 | 7.23 | 0.020 | | | | 0.29 | | 0.15 | | 50 |
| NCS HC 26608b | Ferro Vanadium | 0.70 | 0.84 | 1.64 | 0.051 | 0.22 | 0.0044 | 0.002 | | | | 50.57 | | 0.0024 | 50 |
| NCS HC 26608c | Ferro Vanadium | 0.71 | 0.81 | 2.00 | 0.043 | 0.17 | 0.0040 | 0.0025 | | | | 53.78 | | 0.004 | 50 |
| NCS HC 26610a | Ferro Molybdenum | | 0.10 | | 0.044 | 0.021 | 0.077 | | 64.84 | 0.33 | | | | | 50 |
| NCS HC 26610b | Ferro Molybdenum | | 1.54 | | 0.036 | 0.042 | 0.059 | | 61.85 | 0.29 | | | | | 50 |
| NCS HC 26611b | Silicon Manganese Alloy | | 18.24 | 67.44 | 0.080 | 1.24 | 0.009 | | | | | | | | 50 |
| NCS HC 26612a | Vanadium Pentoxide | | 0.080 | | 0.022 | | | | | | | | | | 25 |
| NCS HC 26620 | Silicon Manganese Alloy | | 19.15 | 54.97 | 0.060 | 0.40 | 0.011 | | | | | | 0.24 | | 50 |
| NCS HC 26621 | Silicon Manganese Alloy | | 27.49 | 61.49 | 0.072 | 0.039 | 0.009 | | | | | | 0.24 | | 50 |
| | | Pb | Sn | Sb | As | W | V ₂ O ₅ | S* | K ₂ O | Na ₂ O | As* | Fe | Al | Mo* | |
| NCS HC 26610a | Ferro Molybdenum | (0.002) | (0.002) | (0.01) | 0.015 | 0.011 | | | | | | | | | |
| NCS HC 26610b | Ferro Molybdenum | | (0.008) | (0.002) | 0.008 | 0.060 | | | | | | | | | |
| NCS HC 26612a | Vanadium Pentoxide | | | | | | 98.99 | 0.001 | 0.12 | 0.58 | 0.0008 | 0.078 | 0.015 | 0.0009 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (in g) | | | | | |
| | | Si | Mn | Al | Cr | P | Ca | C | S | | | | | | |
| NCS HC 25627a | Ferrosilicon | 74.58 | 0.179 | 0.74 | 0.48 | 0.023 | 0.056 | 0.075 | 0.0038 | | | | | | 50 |

Section 3 Ferroalloy(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|--------------|------------------------------|--------------------------------|------------------|--------------------------------|---------|-------|--------|----------|------------------|--------------------------------|-------|-------|---------------------|------------------|---------------------|
| | | C | Si | Mn | P | S | Cr | Cu | Al | Ti | Fe | V | Mo | As | |
| NCS HC 26609 | Ferro Titanium | 0.048 | 5.61 | 2.36 | 0.035 | 0.020 | | 0.102 | 6.21 | 27.47 | | | | | 50 |
| NCS HC 26612 | Ferro Vanadium | | 0.17 | | 0.027 | 0.014 | | | | | 0.16 | | | 0.016 | 25 |
| NCS HC 26613 | Ferro Titanium | 0.019 | 1.84 | 1.11 | 0.020 | 0.013 | | 0.005 | | 30.24 | | 0.20 | | | 50 |
| NCS HC 26614 | Ferro Vanadium | 0.39 | 1.35 | 0.27 | 0.060 | 0.013 | | | | | 53.71 | | | | 50 |
| NCS HC 26615 | Nitride manganese | | 0.0086 | 91.56 | | 0.031 | | 0.0071 | | | 0.038 | | | | 50 |
| | | V ₂ O ₅ | K ₂ O | Na ₂ O | Alt | Als | | | | | | | | | |
| NCS HC 26612 | Ferro Vanadium | 98.09 | 0.15 | 1.11 | | | | | | | | | | | |
| NCS HC 26613 | Ferro Titanium | | | | 8.16 | 8.10 | | | | | | | | | |
| NCS HC 26614 | Ferro Vanadium | | | | 0.039 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | Cr ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | Crs | T.C | T.S | As | ZrO ₂ | Al ₂ O ₃ | CaO | MgO | | TiO ₂ | |
| NCS HC 26617 | Chrome oxide | 96.19 | 0.26 | 0.054 | 1.34 | 0.006 | 0.002 | (0.0001) | | | | | | | 20 |
| NCS HC 26618 | Zirconium dioxide | | 0.11 | 0.054 | | | | | 99.48 | 0.009 | 0.17 | 0.093 | | | 20 |
| NCS HC 26619 | Titanium dioxide | | | 0.006 | 1.34 | 0.011 | 0.006 | | | 0.65 | | | 98.21 | | 20 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | Si | Mn | Ti | Fe | Ca | Mg | RE | Ce | La | P | C | S | Cr | |
| NCS HC 28609 | R _E -Mg Alloy | 43.90 | 0.70 | 0.54 | (31.67) | 1.01 | 10.20 | 8.66 | | | | | | | 80 |
| NCS HC 28610 | R _E -Mg Alloy | 42.05 | 0.46 | 0.275 | (43.4) | 0.76 | 5.52 | 3.71 | (1.86) | (0.88) | | | | | 80 |
| NCS HC 28611 | R _E -Mg Alloy | 43.22 | 0.55 | 0.362 | (40.7) | 0.84 | 5.70 | 5.10 | | | | | | | 80 |
| NCS HC 28612 | R _E -Mg Alloy | 43.44 | 0.63 | 0.435 | (36.43) | 0.90 | 8.25 | 6.42 | | | | | | | 80 |
| NCS HC 28615 | Rare-earth Ferro Silicon | 41.02 | 0.390 | 0.235 | | 5.60 | | 20.00 | | | | | | | 100 |
| NCS HC 28616 | Silicon Manganese Alloy | 14.33 | 62.530 | 0.222 | 20.000 | | | | | | 0.205 | 2.28 | 0.020 | 0.060 | 50 |
| NCS HC 28617 | Silicon Manganese Alloy | 17.590 | 64.970 | 0.221 | 15.160 | | | | | | 0.127 | 1.570 | 0.018 | 0.055 | 50 |
| NCS HC 28618 | Silicon Manganese Alloy | 19.340 | 67.400 | 0.255 | 11.650 | | | | | | 0.107 | 1.050 | 0.017 | 0.045 | 50 |
| NCS HC 28619 | High-Carbon Ferro Chromium | 4.250 | 0.300 | 0.412 | 30.220 | | | | | | 0.023 | 7.280 | 0.024 | 56.760 | 50 |
| NCS HC 28620 | High-Carbon Ferro Chromium | 3.950 | 0.382 | 0.423 | 31.410 | | | | | | 0.022 | 7.600 | 0.031 | 55.770 | 50 |
| NCS HC 28621 | High-Carbon Ferro Chromium | 1.450 | 0.307 | 0.166 | 27.090 | | | | | | 0.026 | 7.780 | 0.033 | 62.540 | 50 |
| NCS HC 28622 | High-Carbon Ferro Chromium | 2.430 | 0.340 | 0.261 | 28.65 | | | | | | 0.025 | 7.720 | 0.033 | 60.000 | 50 |
| NCS HC 28623 | Ferro Molybdenum | 0.275 | 0.185 | | 38.480 | | | | | | 0.031 | 0.032 | 0.047 | 0.011 | 50 |
| NCS HC 28624 | Ferro Molybdenum | 0.367 | 0.039 | | 37.220 | | | | | | 0.044 | 0.019 | 0.078 | 0.052 | 50 |
| NCS HC 28625 | HighCarbon Ferro Manganese | 0.525 | 65.98 | 0.081 | 26.420 | | 0.0006 | | | | 0.805 | 6.140 | 0.0034 | 0.014 | 50 |
| NCS HC 28626 | HighCarbon Ferro Manganese | 0.073 | 66.44 | 0.0035 | 26.620 | | 0.0054 | | | | 0.268 | 6.260 | 0.0014 | 0.032 | 50 |
| NCS HC 28627 | HighCarbon Ferro Manganese | 0.208 | 66.27 | 0.027 | 26.600 | | 0.004 | | | | 0.428 | 6.230 | 0.0023 | 0.026 | 50 |
| NCS HC 28628 | Medium Carbon Ferromanganese | 1.840 | 76.55 | 0.0065 | 17.860 | | 0.0036 | | | | 0.265 | 1.840 | 0.017 | 0.124 | 50 |
| NCS HC 28629 | Low Carbon Ferromanganese | 0.475 | 82.61 | | 16.470 | | 0.0012 | | | | 0.080 | 0.296 | 0.0022 | 0.033 | 50 |
| NCS HC 28630 | Medium Carbon Ferrochrome | 1.430 | 0.350 | | | | 0.0012 | | | | 0.030 | 0.450 | 0.0015 | 58.65 | 50 |
| NCS HC 28631 | Ferroboration | 0.180 | 0.310 | 0.017 | | | | | | | 0.025 | 0.400 | 0.0023 | 0.025 | 50 |
| NCS HC 28632 | Ferroboration | 0.650 | 0.575 | 0.030 | | | | | | | 0.027 | 0.190 | 0.002 | 0.260 | 50 |
| NCS HC 28633 | Ferrovanadium | 0.682 | 0.663 | | | | 0.022 | | | | 0.056 | 0.285 | 0.0044 | 0.110 | 50 |
| NCS HC 28634 | Ferrovanadium | 1.890 | 0.365 | | | | 0.115 | | | | 0.093 | 0.475 | 0.014 | 0.289 | 50 |
| NCS HC 28635 | SiCaAl | 43.60 | 0.095 | | 17.53 | | 15.18 | | | | 0.051 | 1.000 | 0.040 | 0.054 | 50 |
| NCS HC 28636 | SiBaAl | 50.36 | 0.110 | | 16.68 | | 1.44 | | | | 0.016 | 0.34 | 0.038 | 0.083 | 50 |
| NCS HC 28637 | SiCaBaAl | 52.76 | 0.150 | | 10.54 | | 11.10 | | | | 0.024 | 0.63 | 0.073 | 0.031 | 50 |
| NCS HC 28638 | Ferro Titanium | 4.51 | 0.362 | 27.34 | | | | | | | 0.015 | 0.033 | 0.0048 | 0.055 | 50 |

Section 3 Ferroalloy(Powder)

| | | Chemical Composition(Percent) | | | | | | | | | | | | | | |
|--------------|------------------------------|-------------------------------|-------|-------------------------------|------------------|-------------------|-------------------|----------|--------|-------|--------|--------|--------|-------|-----------|----|
| | | Ni | Cu | V | Co | As | Sb | Pb | W | Mo | Sn | Zn | Al | B | | |
| NCS HC 28616 | Silicon Manganese Alloy | 0.167 | 0.080 | 0.095 | 0.048 | 0.015 | 0.003 | 0.001 | | | | | | | | |
| NCS HC 28617 | Silicon Manganese Alloy | 0.092 | 0.096 | 0.060 | 0.035 | 0.010 | 0.001 | 0.001 | | | | | | | | |
| NCS HC 28618 | Silicon Manganese Alloy | 0.036 | 0.051 | 0.063 | 0.017 | 0.0099 | 0.0004 | 0.0001 | | | | | | | | |
| NCS HC 28619 | High-Carbon Ferro Chromium | | | 0.203 | | | | | | | | | | | | |
| NCS HC 28620 | High-Carbon Ferro Chromium | | | 0.175 | | | | | | | | | | | | |
| NCS HC 28621 | High-Carbon Ferro Chromium | | | 0.138 | | | | | | | | | | | | |
| NCS HC 28622 | High-Carbon Ferro Chromium | | | 0.153 | | | | | | | | | | | | |
| NCS HC 28623 | Ferro Molybdenum | 0.033 | 0.368 | | | 0.016 | 0.004 | 0.006 | 0.034 | 60.61 | 0.0007 | | | | | |
| NCS HC 28624 | Ferro Molybdenum | 0.144 | 1.070 | | | 0.0078 | 0.0059 | 0.0022 | 0.047 | 61.00 | 0.0026 | | | | | |
| NCS HC 28625 | High Carbon Ferro Manganese | 0.032 | 0.065 | 0.055 | | 0.0047 | | 0.0092 | | | | 0.0082 | | | | |
| NCS HC 28626 | High Carbon Ferro Manganese | 0.109 | 0.072 | 0.133 | | 0.0015 | | 0.106 | | | | 0.026 | | | | |
| NCS HC 28627 | High Carbon Ferro Manganese | 0.087 | 0.070 | 0.110 | | 0.055 | | 0.077 | | | | 0.022 | | | | |
| NCS HC 28628 | Medium Carbon Ferromanganese | 0.132 | 0.152 | 0.100 | | 0.055 | | 1.300 | | | | 0.0017 | | | | |
| NCS HC 28629 | Low Carbon Ferromanganese | 0.0032 | 0.127 | 0.041 | | 0.017 | | 0.126 | | | | 0.011 | | | | |
| NCS HC 28630 | Medium Carbon Ferrochrome | 0.242 | 0.020 | 0.154 | | 0.0027 | | (0.0001) | | | | 0.010 | | | | |
| NCS HC 28631 | Ferroboron | 0.013 | 0.015 | 0.009 | | | | | | | | | 0.036 | 18.92 | | |
| NCS HC 28632 | Ferroboron | 0.056 | 0.050 | 0.010 | | | | | | | | | 0.185 | 19.33 | | |
| NCS HC 28633 | Ferrovanadium | 0.011 | 0.054 | 54.02 | | 0.0017 | | 0.0001 | | | | | 0.0026 | | | |
| NCS HC 28634 | Ferrovanadium | 0.067 | 0.064 | 47.32 | | 0.024 | | 0.0004 | | | | | 0.0061 | | | |
| NCS HC 28635 | SiCaAl | 0.026 | 0.046 | | | | | | | | | | 16.63 | | | |
| NCS HC 28636 | SiBaAl | 0.021 | 0.032 | | | | | | | | | | 4.07 | | | |
| NCS HC 28637 | SiCaBaAl | 0.007 | 0.017 | | | | | | | | | | 5.42 | | | |
| NCS HC 28638 | Ferro Titanium | | | 0.15 | | | | | | | | | 7.82 | | | |
| | | Ba | Sr | V ₂ O ₅ | K ₂ O | Na ₂ O | N | O* | | | | | | | | |
| NCS HC 28635 | SiCaAl | 1.640 | 0.022 | | | | | | | | | | | | | |
| NCS HC 28636 | SiBaAl | 24.260 | 0.095 | | | | | | | | | | | | | |
| NCS HC 28637 | SiCaBaAl | 15.330 | 0.042 | | | | | | | | | | | | | |
| | | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size | |
| Number | Name | C | N | V | Si | Mn | P | S | Cr | Fe | Ca | Al | As | O* | (in g) | |
| NCS HC 28639 | Vanadium Nitrogen Alloy | 9.22 | 9.44 | 77.58 | 0.4 | 0.0091 | 0.147 | 0.0025 | 0.0032 | 1.95 | 0.066 | 0.24 | 0.0074 | 0.5 | 25 | |
| NCS HC 28640 | Vanadium Nitrogen Alloy | 6.01 | 13.31 | 76.73 | 0.4 | 0.0045 | 0.142 | 0.0019 | 0.019 | 1.76 | 0.1 | 0.28 | 0.012 | 0.7 | 25 | |
| NCS HC 28641 | Vanadium Nitrogen Alloy | 5.71 | 14.13 | 78.04 | 0.26 | 0.0065 | 0.012 | 0.0013 | 0.082 | 0.65 | 0.064 | 0.26 | 0.0014 | 0.6 | 25 | |
| NCS HC 28642 | Vanadium Nitrogen Alloy | 3.39 | 16.64 | 77.73 | 0.23 | 0.005 | 0.01 | 0.0016 | 0.082 | 0.57 | 0.044 | 0.24 | 0.0012 | 0.6 | 25 | |
| | | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size | |
| Number | Name | V ₂ O ₅ | Si | P | Fe | K ₂ O | Na ₂ O | S | As | | | | | | | |
| NCS HC 28643 | Vanadium Pentoxide | 98.44 | 0.054 | 0.0056 | 0.23 | 0.14 | 0.81 | 0.011 | 0.0013 | | | | | | | 25 |

Section 3 Ferroalloy(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|---------------|---------------------------|-------------------------------|--------|-------|-------|--------|-------|--------|-------|-------|-------|--------|-------|-------|---------------------|
| | | C | S | Si | Mn | P | Cr | Al | Ca | Fe | Cu | Ni | Ti | Mo | |
| NCS HC 93601 | Ferrosilicon | 0.148 | 0.0026 | 75.46 | 0.588 | 0.021 | 0.044 | 1.4 | 1.15 | 20.23 | 0.019 | 0.0093 | 0.097 | | 50 |
| NCS HC 93602 | Ferrosilicon | 0.196 | 0.0052 | 74.8 | 11.09 | 0.024 | 0.052 | 1.28 | 0.986 | 20.96 | 0.013 | 0.0071 | 0.106 | | 50 |
| NCS HC 93603 | Ferrosilicon | 0.095 | 0.0023 | 76.53 | 0.281 | 0.019 | 0.043 | 1.52 | 1.373 | 19.07 | 0.025 | 0.012 | 0.085 | | 50 |
| NCS HC 93604 | Micro Carbon Ferrochrome | 0.038 | 0.015 | 0.466 | 0.103 | 0.022 | 68.13 | | | | | 0.26 | 0.016 | | 50 |
| NCS HC 93605 | High Carbon Ferrochromium | 8 | 0.037 | 2.94 | 0.308 | 0.037 | 59.71 | | | | | 0.312 | 0.41 | | 50 |
| NCS HC 93606 | Ferro Molybdenum | 0.073 | 0.044 | 0.19 | | 0.037 | | | | | 0.494 | | | 56.12 | 50 |
| NCS HC 93607 | Ferro Niobium | 0.101 | 0.013 | 1.04 | | 0.194 | | 1.5 | | | 0.038 | | 0.585 | | 50 |
| NCS HC 93608 | Ferro Titanium | 0.095 | 0.015 | 0.3 | 0.255 | 0.014 | | 3 | | | 0.281 | | 32.22 | | 50 |
| NCS HC 93609 | High Carbon Ferrochromium | 8.36 | 0.068 | 1.15 | 0.207 | 0.023 | 58.28 | | | | | | | | 50 |
| NCS HC 93610 | High Carbon Ferrochromium | 7.99 | 0.03 | 0.26 | 0.225 | 0.018 | 70.15 | | | | | | | | 50 |
| NCS HC 93611 | High Carbon Ferrochromium | 8.13 | 0.059 | 0.92 | 0.21 | 0.022 | 60.42 | | | | | | | | 50 |
| NCS HC 93612 | Si-Ca Alloy | 2.44 | 0.1325 | 5.31 | | 0.019 | | 1.88 | 28.25 | 6.08 | | | | | 50 |
| NCS HC 93613 | Si-Ca Alloy | 1.30 | 0.088 | 56.2 | | 0.018 | | 1.77 | 31.67 | 5.58 | | | | | 50 |
| NCS HC 93622 | Ferro Phosphorus | 0.228 | 0.017 | 0.156 | 0.70 | 27.50 | 0.226 | | | | | | 0.53 | | 50 |
| NCS HC 93623 | Ferroboration | 0.45 | 0.0044 | 0.44 | | 0.025 | | 0.083 | | | | | 0.019 | | 50 |
| NCS HC 93624 | Silicon Manganese Alloy | 1.79 | 0.024 | 16.87 | 64.86 | 0.120 | | | | | | | | | 50 |
| NCS HC 93625 | Silicon Manganese Alloy | 1.66 | 0.026 | 17.19 | 65.74 | 0.151 | | | | | | | | | 50 |
| NCS HC 93626 | Silicon Manganese Alloy | 1.91 | 0.020 | 16.42 | 63.80 | 0.097 | | | | | | | | | 50 |
| NCS HC 93627 | Si-Ca Alloy | 1.02 | 0.045 | 57.43 | | 0.030 | | 1.76 | 28.02 | 6.94 | | | | | 50 |
| NCS HC 93628 | Ferro Vanadium | 0.130 | 0.016 | 0.730 | 0.474 | 0.042 | | 6.10 | | | | | | | 30 |
| NCS HC 93628a | Ferro Vanadium | 0.152 | 0.017 | 0.730 | 0.475 | 0.043 | | 6.03 | | | | | | | 30 |
| NCS HC 93629 | Ferro Vanadium | 0.032 | 0.014 | 0.86 | 0.046 | 0.036 | | 1.33 | | | | | | | 25 |
| NCS HC 93630 | Vanadium Nitride Alloy | 3.96 | 0.0014 | 0.061 | 0.082 | 0.0075 | | 0.164 | | | | | | | 25 |
| NCS HC 93631 | Si-Ca-Ba-Al Alloy | 0.78 | 0.044 | 37.19 | 0.43 | 0.032 | | 13.46 | 5.16 | 27.56 | | | | | 50 |
| NCS HC 93632 | Si-Ba Alloy | 0.99 | 0.13 | 47.56 | 0.16 | 0.024 | | 2.78 | | 11.75 | | | | | 50 |
| NCS HC 93633 | Si-Al Alloy | 0.45 | 0.022 | 28.31 | 0.426 | 0.023 | | 29.67 | | 37.44 | | | | | 50 |
| NCS HC 93634 | Si-Ba-Ca Alloy | 0.64 | 0.204 | 52.62 | 0.104 | 0.022 | | 1.82 | 14.08 | 12.97 | | | | | 50 |
| NCS HC 93635 | SiAlFe | 1.90 | 0.015 | 27.36 | 0.18 | 0.072 | | 38.51 | | 26.23 | | | | | 50 |
| NCS HC 93636 | SiAlFe | 0.11 | 0.0071 | 26.11 | 1.70 | 0.021 | | 36.22 | | | | | | | 50 |
| NCS HC 93637 | Silicon Manganese Alloy | 1.80 | 0.023 | 17.54 | 65.70 | 0.023 | | | | | | | | | 100 |
| | | Sb | Nb | Ta | B | V | N | Ba | Mg | Sr | | | | | |
| NCS HC 93606 | Ferro Molybdenum | 0.036 | | | | | | | | | | | | | |
| NCS HC 93607 | Ferro Niobium | | 64.6 | 0.097 | | | | | | | | | | | |
| NCS HC 93623 | Ferroboration | | | | 18.69 | | | | | | | | | | |
| NCS HC 93628 | Ferro Vanadium | | | | | 50.24 | | | | | | | | | |
| NCS HC 93628a | Ferro Vanadium | | | | | 50.09 | | | | | | | | | |
| NCS HC 93629 | Ferro Vanadium | | | | | 80.90 | | | | | | | | | |
| NCS HC 93630 | Vanadium Nitride Alloy | | | | | 77.73 | 14.57 | | | | | | | | |
| NCS HC 93631 | Si-Ca-Ba-Al Alloy | | | | | | | 10.00 | 0.098 | | | | | | |
| NCS HC 93632 | Si-Ba Alloy | | | | | | | 27.54 | | | | | | | |
| NCS HC 93634 | Si-Ba-Ca Alloy | | | | | | | 14.14 | 0.051 | 0.063 | | | | | |
| | | Chemical Composition(%) | | | | | | | | | | | | | Unit Size (in g) |
| Number | Name | Si | Al | Fe | | | | | | | | | | | |
| NCS HC 93614 | SiAlFe | 33.75 | 31.91 | 27.84 | | | | | | | | | | | 50 |
| NCS HC 93615 | SiAlFe | 29.87 | 34.80 | 30.47 | | | | | | | | | | | 50 |
| | | Chemical Composition(%) | | | | | | | | | | | | | Unit Size (in g) |
| Number | Name | C | S | Si | Mn | P | Cr | Ni | Cu | Al | Fe | Ca | Ti | | |
| NCS HC 93616 | Ferrosilicon | 0.208 | 0.0033 | 73.61 | 0.237 | 0.023 | 0.022 | 0.0069 | 0.019 | 2.14 | 21.06 | 2.05 | 0.121 | 80 | |
| NCS HC 93617 | Ferrosilicon | 0.220 | 0.0039 | 76.34 | 0.237 | 0.025 | 0.027 | 0.0056 | 0.015 | 1.75 | 19.43 | 1.31 | 0.119 | 80 | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|---------------|---------------|-------------------------------|--------------------------------|--------------------------------|------------------|--------------------------------|--------|------------------|------------------|------------------|-------------------|--------------------------------|---------------------|--------|---------------------|
| | | TFe | SiO ₂ | Al ₂ O ₃ | MnO | FeO | P | S | Cu | K ₂ O | Na ₂ O | MgO | CaO | Pb | |
| NCS DC 11001 | Magnetite | 44.73 | 18.22 | 0.75 | 0.20 | 12.91 | 0.013 | 1.50 | | | | 4.18 | 7.14 | | 100 |
| NCS DC 11010 | Iron ore | 42.59 | 16.73 | 2.29 | 0.197 | 15.60 | 0.026 | 1.56 | 0.023 | 0.191 | 0.161 | 3.74 | 11.21 | 0.0023 | 70 |
| NCS DC 11012 | Iron ore | 64.89 | 3.51 | 1.18 | 0.119 | 25.63 | 0.0064 | 0.409 | 0.0080 | 0.154 | 0.064 | 1.72 | 1.36 | 0.0008 | 70 |
| NCS DC 11013 | Iron ore | 34.07 | 48.27 | 0.74 | 0.093 | 20.15 | 0.054 | 0.118 | 0.0031 | 0.165 | 0.065 | 2.86 | 0.99 | 0.028 | 70 |
| NCS DC 11015 | Iron ore | 69.58 | 2.67 | 0.31 | 0.061 | 29.37 | 0.0064 | 0.048 | 0.0021 | 0.035 | 0.017 | 0.26 | 0.19 | 0.0004 | 70 |
| NCS DC 11017 | Iron ore | 63.33 | 5.56 | 1.13 | 0.086 | 1.76 | 0.011 | 0.003 | 0.0045 | 0.115 | 0.07 | 1.3 | 1.05 | 0.0006 | 70 |
| NCS DC 11018 | Iron ore | 56.02 | 4.5 | 2.20 | 0.355 | 7.78 | 56.02 | 0.023 | 0.0044 | 0.038 | 0.057 | 2.87 | 9.89 | 0.0031 | 70 |
| | | Zn | Fe ₂ O ₃ | LOI | TiO ₂ | As | | | | | | | | | |
| NCS DC 11010 | Iron ore | 0.019 | | | 0.113 | 0.0026 | | | | | | | | | |
| NCS DC 11012 | Iron ore | 0.013 | | | 0.084 | 0.0006 | | | | | | | | | |
| NCS DC 11013 | Iron ore | 0.0045 | | | 0.043 | 0.0003 | | | | | | | | | |
| NCS DC 11015 | Iron ore | 0.0039 | | | | | | | | | | | | | |
| NCS DC 11017 | Iron ore | 0.0059 | | | | 0.0006 | | | | | | | | | |
| NCS DC 11018 | Iron ore | 0.065 | | | | 0.0014 | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | TFe | SiO ₂ | Al ₂ O ₃ | CaO | MgO | P | S | FeO | Cu | C | Fe ₂ O ₃ | | L.O.I | |
| NCS DC 11003a | Dolomite | | 0.098 | 0.083 | 31.49 | 21.06 | 0.0016 | 0.011 | | | | 0.024 | 46.71 | | 70 |
| NCS DC 11004a | Iron ore | 54.86 | 8.27 | 2.85 | 0.63 | 0.524 | 0.119 | 0.258 | 1.17 | 0.068 | 0.31 | | | | 60 |
| NCS DC 11005a | Iron ore | 63.34 | 3.36 | 0.52 | 0.12 | 0.146 | 0.016 | 0.107 | 0.07# | 0.034 | 0.119 | | | | 60 |
| NCS DC 11006a | Iron ore | 54.74 | 8.53 | 1.48 | 1.02 | 0.657 | 0.036 | 0.439 | 3.9 | 0.102 | 0.227 | | | | 60 |
| NCS DC 11007a | Iron ore | 52.24 | 10.2 | 6.84 | 0.561 | 0.606 | 0.346 | 0.094 | 4.21 | 0.015 | 0.549 | | | | 60 |
| NCS DC 11008a | Iron ore | 57.54 | 7.08 | 2.14 | 1.25 | 0.75 | 0.073 | 0.442 | 8.42 | 0.095 | 0.204 | | | | 60 |
| NCS DC 11009a | Iron ore | 61.96 | 4.92 | 0.914 | 0.375 | 0.364 | 0.027 | 0.212 | 15.13 | 0.063 | 0.128 | | | | 60 |
| | | Pb | Zn | Na ₂ O | K ₂ O | MnO | As | TiO ₂ | BaO | Co | Ti | Sr | | | |
| NCS DC 11003a | Dolomite | | | 0.017 | 0.0030 | 0.061 | | | | | 0.0043 | 0.021 | | | |
| NCS DC 11004a | Iron ore | 0.101 | 0.144 | 0.047 | 0.26 | 1.04 | 0.096 | 0.12 | 0.86* | 0.0054 | | | | | |
| NCS DC 11005a | Iron ore | 0.035 | 0.026 | 0.02 | 0.07 | 0.84 | 0.0044 | 0.034 | 0.62* | 0.0031 | | | | | |
| NCS DC 11006a | Iron ore | 0.182 | 0.3 | 0.048 | 0.214 | 1.31 | 0.215 | 0.154 | 1.08* | 0.0086 | | | | | |
| NCS DC 11007a | Iron ore | 0.034 | 0.066 | 0.093 | 0.61 | 0.194 | 0.051 | 0.237 | 0.028* | 0.0043 | | | | | |
| NCS DC 11008a | Iron ore | 0.192 | 0.362 | 0.042 | 0.24 | 0.623 | 0.291 | 0.199 | 0.42* | 0.011 | | | | | |
| NCS DC 11009a | Iron ore | 0.042 | 0.054 | 0.024 | 0.093 | 0.947 | 0.011 | 0.447 | 0.71* | 0.0061 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | TMn | MnO ₂ | TFe | SiO ₂ | Al ₂ O ₃ | CaO | MgO | TiO ₂ | K ₂ O | Na ₂ O | Cr | | FeO | |
| NCS DC 11019 | Manganese ore | 18.36 | 25.59 | 8.89 | 21.94 | 5.66 | 2.83 | 0.611 | 0.206 | 1.04 | 0.045 | 0.012 | | | 60 |
| NCS DC 11020 | Manganese ore | 22.31 | 30.34 | 9.66 | 28.11 | 7.69 | 2.36 | 1.72 | 0.27 | 1.11 | 0.056 | 0.026 | | | 60 |
| NCS DC 11021 | Manganese ore | 26.53 | 36.6 | 11.01 | 22.1 | 6.99 | 2.31 | 0.774 | 0.247 | 1.01 | 0.064 | 0.019 | | | 60 |
| NCS DC 11022 | Manganese ore | 29.48 | 41.76 | 10.22 | 19.84 | 6.49 | 1.82 | 0.65 | 0.224 | 0.89 | 0.062 | 0.018 | | | 60 |
| NCS DC 11023 | Manganese ore | 35.54 | 52.73 | 10.25 | 13.03 | 3.8 | 2.34 | 0.78 | 0.143 | 0.396 | 0.053 | 0.0053 | | | 60 |
| NCS DC 11024 | Sintered Ore | | | 55.37 | 5.64 | 2.19 | 10.76 | 2.14 | | 0.082 | 0.045 | | (8.20) | | 70 |
| NCS DC 11025 | Pellet Ore | | | 61.37 | 6.59 | 1.35 | 1.04 | 0.80 | | 0.111 | 0.105 | | (1.92) | | 70 |
| | | Ni | Cu | V | P | Pb | As | Zn | BaO | S | MnO | TiO ₂ | | | |
| NCS DC 11019 | Manganese ore | 0.049 | 0.014 | 0.014 | 0.202 | 0.08 | 0.031 | 0.118 | 0.43 | 0.114 | | | | | |
| NCS DC 11020 | Manganese ore | 0.089 | 0.021 | 0.02 | 0.171 | 0.12 | 0.034 | 0.1 | 0.54 | 0.109 | | | | | |
| NCS DC 11021 | Manganese ore | 0.073 | 0.021 | 0.02 | 0.163 | 0.124 | 0.052 | 0.164 | 0.8 | 0.084 | | | | | |
| NCS DC 11022 | Manganese ore | 0.072 | 0.018 | 0.02 | 0.15 | 0.107 | 0.062 | 0.143 | 1.04 | 0.082 | | | | | |
| NCS DC 11023 | Manganese ore | 0.023 | 0.011 | 0.016 | 0.105 | 0.058 | 0.112 | 0.066 | 1.62 | 0.052 | | | | | |
| | | | | | 0.056 | | | 0.0062 | | 0.017 | 0.36 | 0.125 | | | |
| | | | | | 0.093 | | | 0.012 | | 0.021 | 0.120 | 1.61 | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | | | |
|---------------|-------------------|-------------------------------|-------------------|--------------------------------|--------------------------------|--------|--------|--------|--------|------------------|---------------------|-------|-------|--------|---------------------|
| | | Zn | TFe | SiO ₂ | Al ₂ O ₃ | MnO | FeO | P | S | TiO ₂ | | | | | |
| NCS DC 13019c | Iron Concentrate | 0.0030 | 68.96 | 3.98 | 0.174 | 0.049 | 28.98 | 0.010 | 0.0277 | 0.0174 | | | | 100 | |
| NCS DC 13020a | Iron Concentrate | 0.0024 | 66.71 | 7.01 | 0.768 | 0.0392 | 28.68 | 0.0115 | 0.0179 | 0.0124 | | | | 100 | |
| NCS DC 13033 | Iron Ore | | 35.36 | 48.50 | 0.11 | 0.125 | 5.18 | 0.022 | 0.0064 | 0.007 | | | | 100 | |
| NCS DC 13034 | Iron Ore | | 58.70 | 14.47 | 0.54 | 0.061 | 26.09 | 0.584 | 0.047 | 0.014 | | | | 100 | |
| | | K ₂ O | Na ₂ O | MgO | CaO | Pb | | | | | | | | | |
| NCS DC 13019c | Iron Concentrate | 0.0068 | 0.0060 | 0.268 | 0.196 | 0.0052 | | | | | | | | | |
| NCS DC 13020a | Iron Concentrate | 0.0084 | 0.0035 | 0.381 | 0.185 | 0.0056 | | | | | | | | | |
| NCS DC 13033 | Iron Ore | | | 0.20 | 0.13 | | | | | | | | | | |
| NCS DC 13034 | Iron Ore | | | 0.30 | 1.77 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | TFe | SiO ₂ | Al ₂ O ₃ | MnO | FeO | P | S | Cu | K ₂ O | Na ₂ O | MgO | CaO | Ni | |
| NCS DC 14001a | Iron Ore | 64.88 | 3.48 | 1.59 | | (0.37) | 0.055 | 0.015 | | 0.085 | 0.012 | 0.044 | 0.080 | | 100 |
| NCS DC 14003d | Sintered Iron Ore | 51.69 | 7.39 | 1.79 | | 6.88 | 0.057 | 0.044 | 0.029 | 0.17 | 0.098 | 4.12 | 12.06 | | 100 |
| NCS DC 14004b | Pellet Iron Ore | 62.79 | 5.31 | 1.32 | | 0.72 | 0.016 | 0.012 | 0.071 | 0.25 | 0.112 | 1.58 | 1.16 | | 100 |
| NCS DC 14006a | Siderite | 43.66 | 3.99 | 0.60 | | 37.96 | 0.034 | 1.46 | 0.088 | 0.20 | 0.024 | 3.84 | 3.38 | 0.0060 | 100 |
| NCS DC 14007a | Hematite | 61.73 | 9.82 | 0.48 | | 1.51 | 0.024 | 0.036 | 0.061 | 0.056 | 0.0056 | 0.055 | 0.11 | 0.0023 | 100 |
| NCS DC 14010a | Iron Ore | 58.52 | 7.77 | 2.71 | | 19.03 | 0.019 | 0.092 | 0.048 | 0.272 | 0.057 | 1.31 | 1.82 | | 100 |
| NCS DC 14011a | Iron Ore | 49.86 | 9.79 | 2.46 | | 20.20 | 0.057 | 2.11 | 0.059 | 0.32 | 0.144 | 2.30 | 4.28 | | 100 |
| NCS DC 14012a | Iron Ore | 37.79 | 16.54 | 3.29 | | 18.53 | 0.078 | 0.60 | 0.089 | 0.72 | 0.54 | 3.62 | 7.63 | | 100 |
| NCS DC 14013a | Iron Ore | 55.56 | 8.10 | 1.98 | | 22.60 | 0.029 | 1.84 | 0.40 | 0.33 | 0.075 | 2.13 | 3.33 | | 100 |
| NCS DC 14014a | Limestone | | 0.22 | 0.093 | 0.005 | | 0.0011 | 0.043 | | 0.019 | 0.007 | 0.29 | 55.34 | | 50 |
| NCS DC 14017a | Limestone | | 1.13 | 0.51 | 0.014 | | 0.0013 | 0.201 | | 0.093 | 0.020 | 0.56 | 53.93 | | 50 |
| NCS DC 14019a | Dolomite | | 0.021 | 0.017 | 0.032 | | 0.0010 | 0.018 | | 0.0010 | 0.023 | 20.37 | 32.11 | | 70 |
| NCS DC 14020a | Dolomite | | 0.25 | 0.11 | 0.020 | | 0.0012 | 0.046 | | 0.019 | 0.015 | 15.38 | 37.59 | | 70 |
| NCS DC 14021a | Dolomite | | 0.048 | 0.025 | 0.020 | | 0.0012 | 0.009 | | 0.0011 | 0.013 | 17.88 | 35.02 | | 70 |
| NCS DC 14022 | Fluorspar | | 4.72 | | | | 0.0025 | 0.029 | | 0.019 | 0.005 | | | | 65 |
| NCS DC 14022a | Fluorspar | 0.166 | 3.06 | | | | 0.014 | 0.35 | | 0.026 | 0.006 | | | | 65 |
| NCS DC 14023 | Fluorspar | | 8.35 | | | | 0.0031 | 0.090 | | 0.026 | 0.005 | | | | 65 |
| NCS DC 14024 | Fluorspar | | 6.84 | | | | 0.0024 | 0.043 | | 0.029 | 0.006 | | | | 65 |
| NCS DC 14024a | Fluorspar | 0.22 | 5.44 | | | | 0.0014 | 0.009 | | 0.040 | 0.006 | | | | 65 |
| NCS DC 14025 | Fluorspar | | 14.15 | | | | 0.0013 | 0.045 | | 0.044 | 0.005 | | | | 100 |
| NCS DC 14033 | Hematite | 61.68 | 9.82 | 0.48 | | 1.43 | 0.024 | 0.036 | 0.061 | 0.055 | 0.006 | 0.054 | 0.11 | 0.0023 | 100 |
| NCS DC 14038 | Siderite | 43.66 | 3.99 | 0.60 | | 37.96 | 0.034 | 1.46 | 0.087 | 0.20 | 0.024 | 3.85 | 3.37 | 0.0058 | 100 |
| NCS DC 14043 | Hematite | 57.78 | 11.18 | 1.52 | | | 1.48 | 0.046 | 0.187 | 0.066 | 0.22 | 0.023 | 0.54 | 0.56 | 100 |

Section 4 Mineral & Geology(Powder)

| | | Chemical Composition(Percent) | | | | | | | | | | | | | |
|---------------|-----------------------|-------------------------------|--------------------------------|-------------------|--------------------------------|--------|------------------|-------------------|--------|--------------------------------|-------|------------------|-------------------|-----------|--------|
| | | Mn | Ti | L.O.I | Fe ₂ O ₃ | SrO | CaF ₂ | CaCO ₃ | Co | TiO ₂ | Pb | Zn | As | | |
| NCS DC 14001a | Iron Ore | 0.056 | 0.044 | | | | | | | | | | | | |
| NCS DC 14003d | Sintered Iron Ore | 0.369 | 0.084 | | | | | | | | | | | | |
| NCS DC 14004b | Pellet Iron Ore | 0.13 | | | | | | | | 0.113 | | 0.042 | | | |
| NCS DC 14006a | Siderite | 0.235 | 0.013 | | | | | | 0.016 | | | | | | |
| NCS DC 14007a | Hematite | 0.027 | 0.041 | | | | | | 0.0048 | | | | | | |
| NCS DC 14010a | Iron Ore | 0.63 | | | | | | | | 0.121 | 0.008 | 0.134 | | | |
| NCS DC 14011a | Iron Ore | 0.143 | | | | | | | | 0.150 | | 0.030 | 0.024 | | |
| NCS DC 14012a | Iron Ore | 0.15 | | | | | | | | 0.171 | | 0.023 | | | |
| NCS DC 14013a | Iron Ore | 0.31 | | | | | | | | 0.103 | 0.009 | 0.062 | 0.035 | | |
| NCS DC 14014a | Limestone | | | 43.16 | 0.085 | | | | | | | | | | |
| NCS DC 14017a | Limestone | | | 42.88 | 0.258 | | | | | | | | | | |
| NCS DC 14019a | Dolomite | | | 46.98 | 0.224 | | | | | | | | | | |
| NCS DC 14020a | Dolomite | | | 45.88 | 0.459 | | | | | | | | | | |
| NCS DC 14021a | Dolomite | | | 46.73 | 0.495 | | | | | | | | | | |
| NCS DC 14022 | Fluorspar | | | | 0.096 | | 94.91 | (0.02) | | | | | | | |
| NCS DC 14022a | Fluorspar | | | | | | 93.68 | 0.30 | | | | | | | |
| NCS DC 14023 | Fluorspar | | | | 0.124 | | 90.87 | (0.02) | | | | | | | |
| NCS DC 14024 | Fluorspar | | | | 0.124 | | 92.57 | (0.02) | | | | | | | |
| NCS DC 14024a | Fluorspar | | | | | | 93.28 | 0.62 | | | | | | | |
| NCS DC 14025 | Fluorspar | | | | 0.209 | | 85.21 | (0.02) | | | | | | | |
| NCS DC 14033 | Hematite | 0.026 | 0.048 | | | | | | | 0.0048 | | | | | |
| NCS DC 14038 | Siderite | 0.235 | 0.013 | | | | | | | 0.016 | 0.077 | | | | |
| NCS DC 14043 | Hematite | 0.104 | 0.070 | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size | |
| | | CaF ₂ | SiO ₂ | CaCO ₃ | S | P | K ₂ O | Na ₂ O | TFe | Al ₂ O ₃ | FeO | TiO ₂ | MgO | CaO | (in g) |
| NCS DC 14047 | Fluospor | 65.80 | 31.04 | 0.060 | 0.26 | 0.0027 | 0.093 | 0.009 | 0.49 | | | | | | 65 |
| NCS DC 14048 | Fluospor | 76.79 | 21.10 | 0.34 | 0.11 | 0.0021 | 0.081 | 0.007 | 0.40 | | | | | | 65 |
| NCS DC 14049 | Iron Ore | | 4.62 | | 0.020 | 0.037 | 0.33 | 0.027 | 63.86 | 2.04 | 0.25 | 0.12 | 0.056 | 0.082 | 100 |
| NCS DC 14050 | Limestone | | 7.97 | | 0.039 | 0.0033 | 0.021 | 0.015 | | 0.36 | | | 9.45 | 42.62 | 50 |
| | | Mn | Fe ₂ O ₃ | MnO | L.O.I | Ti | Sr | | | | | | | | |
| NCS DC 14049 | Iron Ore | 0.17 | | | | | | | | | | | | | |
| NCS DC 14050 | Limestone | | 0.260 | 0.015 | 38.80 | 0.0096 | 0.017 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size | |
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | P | TiO ₂ | S | K ₂ O | Na ₂ O | Cu | (in g) |
| NCS DC 14009a | Sintered Ore | 55.58 | 20.06 | 9.95 | 2.38 | 3.62 | 5.99 | 0.097 | 0.017 | 0.266 | 0.106 | 0.316 | 0.068 | 0.017 | 50 |
| NCS DC 14014b | Limestone | | | 0.073 | 0.079 | 55.12 | 0.73 | 0.0058 | 0.0013 | | 0.010 | 0.0030 | 0.0075 | | 50 |
| NCS DC 14015b | Limestone | | | 2.06 | 0.74 | 51.41 | 2.31 | 0.013 | 0.0021 | | 0.273 | 0.0062 | 0.0073 | | 50 |
| NCS DC 14017b | Limestone | | | 0.85 | 0.61 | 54.11 | 0.79 | 0.0074 | 0.0017 | | 0.182 | 0.0038 | 0.021 | | 50 |
| NCS DC 14018b | Dolomite | | | 0.77 | 0.23 | 31.96 | 19.92 | 0.031 | 0.0023 | | 0.010 | 0.030 | 0.033 | | 70 |
| NCS DC 14019b | Dolomite | | | 1.30 | 0.18 | 34.82 | 17.34 | 0.0072 | 0.0057 | | 0.009 | 0.027 | 0.019 | | 70 |
| NCS DC 14020b | Dolomite | | | 4.21 | 0.92 | 35.73 | 15.28 | 0.022 | 0.0032 | | 0.030 | 0.017 | 0.015 | | 70 |
| NCS DC 14028d | Magnetite Concentrate | 64.37 | 20.96 | 2.95 | 1.10 | 1.17 | 1.30 | | 0.013 | | 0.371 | 0.036 | 0.017 | | 100 |
| | | Zn | Fe ₂ O ₃ | L.O.I | Ti | Sr | Mn | | | | | | | | |
| NCS DC 14009a | Sintered Ore | 0.011 | | | | | | | | | | | | | |
| NCS DC 14014b | Limestone | | 0.341 | 43.53 | 0.0010 | 0.025 | | | | | | | | | |
| NCS DC 14015b | Limestone | | 0.838 | 41.79 | 0.0071 | 0.023 | | | | | | | | | |
| NCS DC 14017b | Limestone | | 0.319 | 42.79 | 0.0021 | 0.024 | | | | | | | | | |
| NCS DC 14018b | Dolomite | | 0.269 | 46.24 | 0.011 | 0.0081 | | | | | | | | | |
| NCS DC 14019b | Dolomite | | 0.447 | 45.37 | 0.085 | 0.021 | | | | | | | | | |
| NCS DC 14020b | Dolomite | | 0.533 | 42.69 | 0.025 | 0.026 | | | | | | | | | |
| NCS DC 14028d | Magnetite Concentrate | | | | 0.294 | | 0.147 | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| | | CaO | As | Zn | Pb | | | | | | | | | | | |
|---------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|------------------|-------------------------------|------------------|--------------------------------|--------------------------------|------------------|-------|------------------|------------------|------------------|------------------|----|
| NCS DC 18014 | Iron Ore | 0.15 | | | | | | | | | | | | | | |
| NCS DC 18015 | Iron Ore | 9.25 | | | | | | | | | | | | | | |
| NCS DC 18016 | Iron Ore | 11.18 | | | | | | | | | | | | | | |
| NCS DC 18017 | Sintering ore | 15.52 | 0.030 | 0.13 | 0.061 | | | | | | | | | | | |
| NCS DC 18018 | Sintering ore | 10.36 | | | | | | | | | | | | | | |
| NCS DC 18019 | Sintering ore | 10.50 | 0.021 | | | | | | | | | | | | | |
| NCS DC 18020 | Sintering ore | 18.30 | 0.051 | 0.223 | 0.208 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | | |
| NCS DC 19013 | Iron Ore | TFe | SiO ₂ | Al ₂ O ₃ | MnO | P | TiO ₂ | MgO | CaO | | | 100 | | | | |
| NCS DC 19013 | Iron Ore | 42.89 | 22.08 | 4.1 | 1.66 | 0.099 | 0.26 | 0.51 | 0.124 | | | 100 | | | | |
| Number | Name | SiO ₂ | Al ₂ O ₃ | CaO | MgO | V ₂ O ₅ | FeO | MnO | TFe | K ₂ O | | | Unit Size (in g) | | | |
| NCS DC 19003b | V-Ti Iron Concentrate | 1.4 | 3.36 | 0.055 | 1.34 | 0.78 | 26.53 | 0.43 | 59.51 | | | 100 | | | | |
| NCS DC 19004b | V-Ti Iron Concentrate | 3.21 | 4.08 | 0.84 | 3.13 | 0.56 | 32.36 | 0.37 | 53.65 | 0.011 | | | 100 | | | |
| NCS DC 19016 | V-Ti Pellet | 6.43 | 3.07 | 1.08 | 1.88 | 0.51 | 1.01 | 0.199 | 55.23 | 0.123 | | | 100 | | | |
| Number | Name | Cr ₂ O ₃ | P | S | Zn | Co | Ni | TiO ₂ | Na ₂ O | | | | Unit Size (in g) | | | |
| NCS DC 19003b | V-Ti Iron Concentrate | 0.042 | 0.0049 | 0.013 | 0.028 | 0.015 | 0.014 | 10.21 | | | | 100 | | | | |
| NCS DC 19004b | V-Ti Iron Concentrate | 0.027 | 0.0016 | 0.762 | 0.037 | 0.023 | 0.011 | 12.85 | 0.054 | | | | 100 | | | |
| NCS DC 19016 | V-Ti Pellet | 0.34 | 0.037 | 0.0087 | 0.033 | 0.01 | 0.021 | 7.69 | 0.173 | | | | 100 | | | |
| Number | Name | TFe | SiO ₂ | Al ₂ O ₃ | MnO | P | S | TiO ₂ | MgO | CaO | L.O.I | | | Unit Size (in g) | | |
| NCS DC 21001 | Serpentinite | 5.47 | 41.37 | 3.34 | 0.131 | 0.012 | 0.066 | 0.180 | 34.25 | 2.97 | 8.86 | | | 50 | | |
| Number | Name | TFe | SiO ₂ | Al ₂ O ₃ | P | S | MgO | CaO | Cr ₂ O ₃ | Ca | Al | Fe | Mn | Ti | Unit Size (in g) | |
| NCS DC 25002 | Chromite | 9.71 | 11.71 | 10.97 | 0.0072 | 0.0017 | 20.59 | 0.82 | 36.31 | | | | | | 100 | |
| NCS DC 25007 | Silicon used in Industry | | | | | | | | | | 0.34 | 0.24 | 0.39 | | | 50 |
| NCS DC 25008 | Manganese Ores | 9.43 | 9.51 | 6.81 | 0.091 | 29.30 | 0.077 | 0.071 | | | | | | 50 | | |
| | | B | | | | | | | | | | | | | | |
| NCS DC 25008 | Manganese Ores | 0.0018 | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| NCS DC 26701 | Manganese ore | TMn | TFe | SiO ₂ | P | CaO | MgO | Al ₂ O ₃ | MnO ₂ | Ti | Zn | Pb | Co | Cu | 50 | |
| NCS DC 26701 | Manganese ore | 44.95 | 10.5 | 5.41 | 0.033 | 7.53 | 1.05 | 0.37 | (32.31) | 0.01 | 0.013 | 0.013 | 0.008 | 0.009 | 50 | |
| NCS DC 26702 | Manganese ore | 58.8 | 1.45 | 5.63 | 0.009 | 0.37 | 0.17 | 0.74 | (62.07) | 0.025 | 0.219 | 0.018 | 0.0014 | 0.024 | 50 | |
| NCS DC 26703 | Manganese ore | 45.2 | 6.03 | 5.55 | 0.127 | 0.103 | 0.097 | 6.88 | (67.71) | 0.092 | 0.052 | (0.007) | 0.096 | 0.033 | 50 | |
| NCS DC 26704 | Manganese ore | 45.2 | 6.03 | 5.55 | 0.127 | 0.103 | 0.097 | 6.88 | (67.71) | 0.092 | 0.052 | (0.007) | 0.096 | 0.033 | 50 | |
| NCS DC 26705 | Ilmenite concentrate | 31.40 | | 1.98 | 0.045 | 0.16 | 0.84 | 0.75 | | | | | | 40 | | |
| NCS DC 26706 | Nickel Iron Ore | 47.72 | | 5.16 | 0.0027 | 0.13 | 2.34 | 4.65 | | | | | | 25 | | |
| Number | Name | Ni | C | S | TiO ₂ | FeO | MnO | V ₂ O ₅ | Cr ₂ O ₃ | Mn | Cr | | | | | |
| NCS DC 26701 | Manganese ore | (0.002) | 1.22 | 0.18 | | | | | | | | | | | | |
| NCS DC 26702 | Manganese ore | 0.012 | 0.085 | 0.017 | | | | | | | | | | | | |
| NCS DC 26703 | Manganese ore | 0.0024 | 0.034 | 0.003 | | | | | | | | | | | | |
| NCS DC 26704 | Manganese ore | 0.039 | 0.09 | 0.028 | | | | | | | | | | | | |
| NCS DC 26705 | Ilmenite concentrate | 0.039 | 0.090 | 0.028 | | | | | | | | | | | | |
| NCS DC 26706 | Nickel Iron Ore | 0.043 | | 0.004 | 51.35 | 23.81 | 0.90 | 0.22 | (0.07) | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|---------------|--------------|--------------------------------|------------------|--------------------------------|--------------------------------|--------------------------------|--------|--------|------------------|------------------|-------------------|-------------------|-------------------|--------|---------------------|
| | | TFe | SiO ₂ | Al ₂ O ₃ | MnO | FeO | P | S | TiO ₂ | K ₂ O | Na ₂ O | MgO | CaO | | |
| NCS DC 28002a | Iron ore | 60.37 | 7.40 | 3.54 | 0.236 | 21.03 | 0.043 | 0.016 | 0.751 | 0.090 | 0.102 | 1.23 | 1.49 | 50 | |
| NCS DC 28003a | Iron ore | 62.65 | 4.20 | 0.39 | 0.113 | 24.53 | 0.011 | 0.114 | 0.117 | 0.040 | 0.013 | 4.73 | 0.71 | 50 | |
| NCS DC 28003b | Iron ore | 63.07 | 3.38 | 0.64 | 1.08 | 23.93 | 0.016 | 0.024 | 0.224 | 0.025 | 0.016 | 4.82 | 0.71 | 50 | |
| NCS DC 28005a | Iron ore | 66.18 | 2.90 | 0.54 | 0.103 | 27.01 | 0.0067 | 0.059 | 0.077 | 0.054 | 0.031 | 2.64 | 0.74 | 50 | |
| NCS DC 28005b | Iron ore | 67.84 | 5.32 | 0.45 | 0.030 | 29.72 | 0.0025 | 0.106 | 0.097 | 0.055 | 0.018 | 0.202 | 0.155 | 50 | |
| NCS DC 28005c | Iron ore | 68.38 | 2.25 | 0.58 | 0.086 | 28.80 | 0.0035 | 0.034 | 0.057 | 0.050 | 0.026 | 1.15 | 0.78 | 50 | |
| NCS DC 28006 | Limonite | 40.24 | 8.40 | 0.65 | | | 0.041 | 0.087 | 0.031 | 0.20 | (0.006) | 1.17 | 11.95 | 100 | |
| NCS DC 28009 | Limestone | | 2.08 | 0.364 | 0.0053 | | 0.0026 | 0.115 | 0.0205 | 0.080 | 0.011 | 10.62 | 42.77 | 50 | |
| | | Fe ₂ O ₃ | Mn | SrO | L.O.I | As | Cu | Zn | Cr | | | | | | |
| NCS DC 28002a | Iron ore | | | | | 0.0012 | 0.0080 | 0.016 | 0.068 | | | | | | |
| NCS DC 28003a | Iron ore | | | | | | 0.0071 | 0.0085 | | | | | | | |
| NCS DC 28003b | Iron ore | | | | | | | 0.055 | | | | | | | |
| NCS DC 28005a | Iron ore | | | | | | 0.0050 | 0.0070 | | | | | | | |
| NCS DC 28005b | Iron ore | | | | | | | 0.0020 | 0.0075 | | | | | | |
| NCS DC 28005c | Iron ore | | | | | | 0.0037 | 0.0055 | | | | | | | |
| NCS DC 28006 | Limonite | | 1.2 | | | | | | | | | | | | |
| NCS DC 28009 | Limestone | 0.200 | | 0.027 | 42.57 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | SiO ₂ | CaO | MgO | Fe ₂ O ₃ | Al ₂ O ₃ | MnO | P | TiO ₂ | SrO | K ₂ O | Na ₂ O | S | L.O.I | |
| NCS DC 28012a | Dolomite | 1.48 | 30.94 | 20.92 | 0.26 | 0.23 | 0.011 | 0.014 | 0.008 | 0.007 | 0.085 | 0.012 | 0.003 | 45.58 | 50 |
| NCS DC 28013a | Dolomite | 2.65 | 31.12 | 19.1 | 0.504 | 0.73 | 0.011 | 0.0034 | 0.034 | 0.0064 | 0.13 | 0.034 | 0.007 | 45.49 | 50 |
| NCS DC 28014a | Dolomite | 2.97 | 31.46 | 18.6 | 0.472 | 0.81 | 0.012 | 0.0061 | 0.041 | 0.0058 | 0.29 | 0.021 | 0.019 | 44.94 | 50 |
| NCS DC 28015a | Dolomite | 4.89 | 33.6 | 15.5 | 0.641 | 1.4 | 0.0085 | 0.011 | 0.074 | 0.006 | 0.35 | 0.019 | 0.013 | 43.24 | 50 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | P | TiO ₂ | S | K ₂ O | Na ₂ O | Cu | |
| NCS DC 28020a | Pellet Ore | 63.07 | (0.04) | 5.22 | 1.47 | 1.34 | 0.96 | 0.303 | 0.028 | 0.258 | 0.0084 | 0.078 | 0.103 | 0.0089 | 50 |
| NCS DC 28020b | Pellet Ore | 61.81 | (0.18) | 6.88 | | 1.3 | 1 | 0.31 | 0.032 | 0.251 | 0.0055 | 0.066 | 0.099 | 0.0089 | 50 |
| NCS DC 28020c | Pellet Ore | 60.46 | 0.33 | 6.12 | 0.76 | 0.75 | 5.15 | 0.13 | 0.013 | 0.154 | 0.029 | 0.081 | 0.036 | 0.01 | 50 |
| NCS DC 28021a | Pellet Ore | 57.88 | 6.53 | 7.92 | 2.54 | 3.15 | 3.11 | 0.126 | 0.016 | 0.207 | 0.115 | 0.265 | | 0.018 | 50 |
| NCS DC 28023a | Sintered Ore | 53.1 | 7.49 | 6.49 | 2.76 | 11.78 | 2.69 | 0.74 | 0.059 | 0.144 | 0.042 | 0.079 | 0.049 | | 50 |
| NCS DC 28023b | Sintered Ore | 53.74 | 8.52 | 7.11 | 3.05 | 9.67 | 3.45 | 0.185 | 0.036 | 0.29 | 0.022 | 0.145 | 0.09 | 0.017 | 50 |
| | | Zn | V | As | Pb | Cr | | | | | | | | | |
| NCS DC 28020a | Pellet Ore | 0.012 | | | | | | | | | | | | | |
| NCS DC 28020b | Pellet Ore | 0.012 | 0.155 | | | | | | | | | | | | |
| NCS DC 28020c | Pellet Ore | 0.012 | | | | | | | | | | | | | |
| NCS DC 28021a | Pellet Ore | 0.039 | | 0.0012 | 0.0047 | | | | | | | | | | |
| NCS DC 28023a | Sintered Ore | | | | | | | | | | | | | | |
| NCS DC 28023b | Sintered Ore | 0.018 | | 0.02 | 0.012 | 0.021 | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | P | TiO ₂ | S | K ₂ O | Na ₂ O | Cu | |
| NCS DC 28046a | Sintered Ore | 55.49 | 7.93 | 4.85 | 1.84 | 11.66 | 2.83 | 0.289 | 0.045 | 0.109 | 0.04 | 0.045 | 0.034 | 0.0034 | 50 |
| | | Zn | | | | | | | | | | | | | |
| NCS DC 28046a | Sintered Ore | 0.0078 | | | | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|---------------|----------------------|-------------------------------|--------|------------------|--------------------------------|------------------|--------------------------------|-------|-------|------------------|------------------|------------------|-------------------|--------|---------------------|
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Ni | Cr | Co | TiO ₂ | Mn | P | S | |
| NCS DC 28064 | High Cr, Ni Iron ore | 51.48 | 0.25 | 2.30 | 5.65 | 0.014 | 0.70 | 0.72 | 1.80 | 0.10 | 0.15 | 0.70 | 0.0045 | 0.17 | 50 |
| NCS DC 28065 | High Cr, Ni Iron ore | 39.68 | 0.10 | 10.00 | 9.98 | 0.30 | 2.54 | 1.30 | 1.71 | 0.085 | 0.14 | 0.59 | 0.010 | 0.23 | 50 |
| NCS DC 28066 | High Cr, Ni Iron ore | 12.97 | 0.33 | 46.34 | 1.40 | 0.41 | 19.98 | 2.00 | 0.58 | 0.037 | 0.024 | 0.23 | 0.0017 | 0.012 | 50 |
| NCS DC 28067 | High Cr, Ni Iron ore | 51.36 | 0.26 | 3.11 | 4.16 | 0.022 | 1.05 | 0.94 | 2.00 | 0.098 | 0.091 | 0.80 | 0.0055 | 0.095 | 50 |
| NCS DC 28068 | High Cr, Ni Iron ore | 16.83 | 0.10 | 34.93 | 2.06 | 0.16 | 21.32 | 1.74 | 0.81 | 0.064 | 0.043 | 0.40 | 0.0018 | 0.025 | 50 |
| NCS DC 28069 | High Cr, Ni Iron ore | 34.18 | 0.11 | 18.28 | 2.39 | 0.12 | 12.12 | 1.50 | 1.48 | 0.13 | 0.030 | 0.78 | 0.0015 | 0.082 | 50 |
| NCS DC 28070 | High Cr, Ni Iron ore | 19.43 | 10.20 | 28.78 | 7.10 | 20.02 | 11.58 | 1.07 | 0.81 | 0.055 | 0.24 | 0.50 | 0.024 | 0.35 | 50 |
| NCS DC 28071 | High Cr, Ni Iron ore | 25.15 | 20.15 | 29.18 | 6.68 | 11.80 | 12.48 | 1.41 | 1.16 | 0.066 | 0.17 | 0.54 | 0.017 | 0.22 | 50 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | S | Ni | Ti | TFe | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Cr | Cu | Mn | Co | Zn | |
| NCS DC 28072 | Nickel ore | 2.51 | 5.71 | 0.15 | 23.73 | 21.1 | 3.91 | 6.47 | 1.14 | 0.015 | 0.27 | 0.037 | 0.042 | 4.65 | 50 |
| NCS DC 28073 | Nickel ore | 0.024 | 1.17 | 0.024 | 18.57 | 37.41 | 2.9 | 0.82 | 20.75 | 0.95 | 0.0049 | 0.327 | 0.042 | 0.019 | 50 |
| NCS DC 28074 | Nickel ore | 0.288 | 0.892 | 0.145 | 46.99 | 2.52 | 10.29 | 0.033 | 0.51 | 1.84 | 0.012 | 0.149 | 0.014 | 0.023 | 50 |
| NCS DC 28075 | Nickel ore | 0.014 | 1.7 | 0.039 | 14.92 | 38.77 | 2 | 0.385 | 21.05 | 0.8 | 0.0025 | 0.294 | 0.043 | 0.019 | 50 |
| NCS DC 28076 | Nickel ore | 0.016 | 1.86 | 0.015 | 15.2 | 34.7 | 1.04 | 0.1 | 25.7 | 0.92 | 0.0017 | 0.282 | 0.065 | 0.021 | 50 |
| NCS DC 28077 | Nickel ore | 0.016 | 1.97 | 0.017 | 14.84 | 36 | 1.03 | 0.14 | 25.49 | 0.823 | 0.0016 | 0.263 | 0.06 | 0.021 | 50 |
| NCS DC 28078 | Nickel ore | 0.034 | 2.18 | 0.027 | 14.89 | 39.2 | 1.59 | 0.46 | 21.28 | 0.76 | 0.0058 | 0.254 | 0.055 | 0.079 | 50 |
| NCS DC 28079 | Nickel ore | 1.41 | 3.98 | 0.098 | 20.74 | 27.48 | 3.55 | 4.54 | 8.67 | 0.364 | 0.169 | 0.147 | 0.041 | 2.85 | 50 |
| NCS DC 28080 | Nickel ore | 0.18 | 1.3 | 0.092 | 34.55 | 15.48 | 6.53 | 0.07 | 10.54 | 1.38 | 0.0071 | 0.192 | 0.033 | 0.022 | 50 |
| | | Pb | P | Cd | | | | | | | | | | | |
| NCS DC 28072 | Nickel ore | 0.04 | 1.61 | 0.047 | | | | | | | | | | | |
| NCS DC 28073 | Nickel ore | 0.0024 | <0.007 | <0.0015 | | | | | | | | | | | |
| NCS DC 28074 | Nickel ore | 0.0023 | 0.03 | <0.0020 | | | | | | | | | | | |
| NCS DC 28075 | Nickel ore | 0.0013 | 0.0043 | <0.0015 | | | | | | | | | | | |
| NCS DC 28076 | Nickel ore | 0.0016 | <0.007 | <0.0015 | | | | | | | | | | | |
| NCS DC 28077 | Nickel ore | 0.0015 | 0.0043 | <0.0015 | | | | | | | | | | | |
| NCS DC 28078 | Nickel ore | 0.002 | 0.029 | <0.0015 | | | | | | | | | | | |
| NCS DC 28079 | Nickel ore | 0.03 | 1.08 | 0.028 | | | | | | | | | | | |
| NCS DC 28080 | Nickel ore | 0.0019 | 0.02 | <0.0025 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | P | TiO ₂ | S | K ₂ O | Na ₂ O | As | |
| NCS DC 28081 | Iron ore | 57.41 | 1.89 | 7.31 | 5.11 | 0.34 | 0.142 | 0.228 | 0.054 | 0.23 | 0.018 | 0.15 | 0.045 | 0.0014 | 100 |
| NCS DC 28082 | Iron ore | 49.53 | 0.05 | 7.44 | 7.45 | 0.032 | 0.107 | 3.39 | 0.083 | 0.370 | 0.029 | | | | 100 |
| NCS DC 28082a | Iron ore | 48.00 | 0.05 | 12.74 | 3.44 | 0.15 | 0.268 | 3.40 | 0.076 | 0.146 | 0.111 | | | | 100 |
| NCS DC 28083 | Iron ore | 50.98 | 8.92 | 9.40 | 5.03 | | 1.05 | 0.306 | 0.963 | 0.125 | 0.112 | | | | 100 |
| | | Cu | Zn | Cr | C | Pb | | | | | | | | | |
| NCS DC 28081 | Iron ore | 0.0038 | 0.0027 | 0.032 | | | | | | | | | | | |
| NCS DC 28082 | Iron ore | | | | 0.071 | | | | | | | | | | |
| NCS DC 28082a | Iron ore | 0.49 | | 0.072 | 0.283 | | | | | | | | | | |
| NCS DC 28083 | Iron ore | | | | 0.89 | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
|--------------|------------------|-------------------------------|------------------|--------------------------------|--------|--------|--------------------------------|-------|------------------|------------------|--------|------------------|-------------------|---------------------|---------------------|-----|
| | | TFe | FeO | SiO ₂ | CaO | MgO | Al ₂ O ₃ | Ti | Mn | P | S | K ₂ O | Na ₂ O | Cu | | |
| NCS DC 28021 | Pellet | 59.95 | 4.20 | 7.89 | 1.75 | 1.82 | 2.16 | 0.084 | 0.113 | 0.019 | 0.048 | | | | 100 | |
| NCS DC 28024 | Iron Ore | 61.53 | 0.24 | 3.43 | 0.118 | 0.109 | 2.12 | 0.052 | 0.276 | 0.068 | 0.038 | 0.026 | 0.034 | 0.0014 | 50 | |
| NCS DC 28025 | Iron Ore | 62.11 | 0.58 | 2.92 | 0.021 | 0.101 | 2.06 | 0.051 | 0.65 | 0.067 | 0.013 | 0.023 | 0.013 | 0.0018 | 50 | |
| NCS DC 28026 | Iron Ore | 62.27 | 0.59 | 4.2 | 0.144 | 0.156 | 2.39 | 0.055 | 0.17 | 0.078 | 0.02 | 0.023 | 0.024 | 0.0015 | 50 | |
| NCS DC 28027 | Iron Ore | 66.34 | 0.07 | 1.02 | 0.02 | 0.063 | 1.42 | 0.057 | 0.48 | 0.034 | 0.0071 | 0.013 | 0.0055 | 0.0085 | 50 | |
| NCS DC 28028 | Iron Ore | 66.47 | 0.58 | 1.79 | 0.028 | 0.091 | 1.36 | 0.046 | 0.137 | 0.055 | 0.0066 | 0.014 | 0.005 | 0.0014 | 50 | |
| NCS DC 28029 | Iron Ore | 72.01 | 28.63 | 0.158 | 0.025 | 0.042 | 0.095 | 0.028 | 0.043 | 0.0013 | 0.0028 | 0.0068 | 0.0008 | 0.0007 | 70 | |
| NCS DC 28030 | Iron Ore | 60.82 | 0.21 | 3.45 | 0.035 | 0.112 | 2.27 | 0.056 | 0.298 | 0.073 | 0.041 | 0.022 | 0.026 | | 70 | |
| NCS DC 28031 | Iron Ore | 61.82 | 0.55 | 2.94 | 0.024 | 0.085 | 2.26 | 0.054 | 0.61 | 0.073 | 0.012 | 0.024 | 0.012 | | 70 | |
| NCS DC 28032 | Iron Ore | 68.29 | 0.24 | 0.85 | 0.074 | 0.025 | 0.74 | 0.050 | 0.096 | 0.028 | 0.0028 | 0.0063 | 0.015 | | 70 | |
| NCS DC 28033 | Iron Ore | 66.17 | 26.04 | 7.21 | 0.21 | 0.18 | 0.260 | 0.024 | 0.043 | 0.012 | 0.044 | 0.014 | 0.0015 | | 70 | |
| NCS DC 28034 | Iron Ore | 53.42 | 15.27 | 5.22 | 0.31 | 11.21 | 0.57 | 0.044 | 0.065 | 0.018 | 0.192 | 0.086 | 0.25 | | 70 | |
| NCS DC 28035 | Iron Ore | 65.66 | 0.54 | 1.92 | 0.056 | 0.102 | 1.64 | 0.048 | 0.135 | 0.060 | 0.022 | 0.018 | 0.007 | | 70 | |
| NCS DC 28036 | Iron Ore | 59.71 | 0.62 | 5.18 | 0.317 | 0.233 | 2.76 | 0.066 | 0.192 | 0.078 | 0.090 | 0.042 | 0.086 | | 70 | |
| NCS DC 28037 | Iron Ore | 66.54 | 0.21 | 0.962 | 0.031 | 0.054 | 1.43 | 0.051 | 0.482 | 0.034 | 0.0071 | 0.012 | 0.015 | | 70 | |
| NCS DC 28038 | Iron Ore | 55.19 | 6.23 | 6.79 | 9.19 | 2.22 | 1.83 | 0.123 | 0.222 | 0.057 | 0.028 | 0.070 | 0.057 | | 70 | |
| NCS DC 28039 | Iron Ore | 72.02 | 28.78 | 0.14 | 0.026 | 0.043 | 0.095 | 0.029 | 0.043 | 0.0016 | 0.0030 | 0.0064 | 0.0008 | | 70 | |
| NCS DC 28040 | Iron Ore | 58.04 | 3.11 | 5.06 | 4.41 | 1.17 | 2.04 | 0.084 | 0.269 | 0.063 | 0.038 | 0.048 | 0.039 | | 70 | |
| NCS DC 28041 | Manganese Ores | 0.85 | | 56.03 | 2.07 | 0.6 | 8.25 | | | 0.011 | 0.012 | 3.74 | 0.48 | | 70 | |
| NCS DC 28042 | Manganese Ores | 10.62 | | 24.73 | 6.2 | 3.14 | 2.8 | | | 0.074 | 0.044 | 0.83 | 0.049 | | 80 | |
| NCS DC 28043 | Manganese Ores | 10.68 | | 17.3 | 1.15 | 0.7 | 6.4 | | | 0.171 | 0.1 | 0.65 | 0.058 | | 80 | |
| NCS DC 28044 | Manganese Ores | 6.9 | | 17.7 | 3.3 | 1.29 | 2.08 | | | 0.105 | 0.021 | 0.49 | 0.076 | | 80 | |
| NCS DC 28045 | Manganese Ores | 2.75 | | 16 | 0.195 | 0.182 | 2.35 | | | 0.23 | 0.0086 | 1.48 | 0.034 | | 80 | |
| | | Co | As | Pb | Cr | Zn | B ₂ O ₃ | TMn | MnO ₂ | TiO ₂ | BaO | Ni | V | | | |
| NCS DC 28024 | Iron Ore | 0.0009 | 0.0011 | 0.0008 | 0.0054 | 0.002 | | | | | | | | | | |
| NCS DC 28025 | Iron Ore | 0.0015 | 0.0011 | 0.0008 | 0.0038 | 0.0026 | | | | | | | | | | |
| NCS DC 28026 | Iron Ore | 0.001 | 0.0013 | 0.0004 | 0.0027 | 0.0026 | | | | | | | | | | |
| NCS DC 28027 | Iron Ore | 0.0009 | 0.0004 | 0.0013 | 0.0015 | 0.0032 | | | | | | | | | | |
| NCS DC 28028 | Iron Ore | 0.0008 | 0.0012 | 0.0013 | 0.003 | 0.0044 | | | | | | | | | | |
| NCS DC 28029 | Iron Ore | 0.0008 | 0.00012 | 0.0002 | 0.0062 | 0.0026 | | | | | | | | | | |
| NCS DC 28034 | Iron Ore | | | | | | 3.62 | | | | | | | | | |
| NCS DC 28041 | Manganese Ores | | 0.013 | 0.0025 | | 0.015 | | 14.45 | 20.66 | 0.177 | 0.064 | | | | | |
| NCS DC 28042 | Manganese Ores | | 0.032 | 0.0066 | 0.0023 | 0.012 | | 22.18 | 18.35 | 0.123 | 0.164 | 0.0044 | 0.0044 | | | |
| NCS DC 28043 | Manganese Ores | | 0.089 | 0.11 | 0.013 | 0.235 | | 30.99 | 45.61 | 0.215 | 1.11 | 0.083 | 0.019 | | | |
| NCS DC 28044 | Manganese Ores | | 0.039 | 0.0083 | 0.0018 | 0.027 | | 36.31 | 45.01 | 0.085 | 0.41 | 0.01 | 0.0075 | | | |
| NCS DC 28045 | Manganese Ores | | 0.042 | 0.011 | 0.038 | 0.07 | | 44.97 | 67.67 | 0.105 | 0.058 | 0.079 | 0.018 | | | |
| Number | Name | Chemical composition(percent) | | | | | | | | | | | | Unit Size (in g) | | |
| | | TFe | SiO ₂ | Al ₂ O ₃ | Mn | Sb | S | Cu | MgO | As | Pb | Zn | Bi | | Ag | |
| NCS DC 35001 | Tin Concentrate | 21.33 | | | | 0.024 | 0.183 | | | 0.574 | 2.89 | 0.264 | 0.034 | 0.00255 | 100 | |
| NCS DC 35002 | Tin Concentrate | 9.53 | 0.930 | | | 0.016 | 0.090 | 0.043 | | 0.306 | 1.62 | 0.120 | 0.020 | | 100 | |
| NCS DC 35003 | Lead Concentrate | 10.68 | 0.348 | 0.142 | | | | 1.12 | 0.484 | 0.042 | 1.26 | 58.09 | 0.987 | 1.52 | 0.209 | 100 |
| NCS DC 35004 | Zinc Concentrate | 4.14 | 19.83 | | | 0.0017 | | | 0.135 | | 0.023 | 0.357 | 43.02 | | | 80 |
| NCS DC 35008 | Tin Ore | 22.62 | | | | 0.013 | | | 0.037 | | 0.084 | 2.07 | 0.51 | | 19.8(g/t) | 60 |
| NCS DC 35009 | Tin Ore | | 4.99 | | | | | | 1.09 | | 2.17 | 0.095 | 1.49 | 1.20 | | 60 |
| NCS DC 35011 | Sn Ore | | | | | | | | 0.077 | | 0.046 | | | | | 70 |
| NCS DC 35012 | Sn Ore | | | | | | | | 0.109 | | 0.097 | | | | | 70 |
| NCS DC 35014 | Tin Concentrate | | (1.10) | | | 0.019 | | 0.067 | (0.13) | 0.414 | 2.20 | 0.196 | 0.028 | | | 100 |
| NCS DC 35015 | Manganese Ore | 3.97 | | | | | | 0.006 | | 0.015 | 0.015 | 0.0036 | | | | 80 |

Section 4 Mineral & Geology(Powder)

| | WO ₃ | Sn | F | Cd | Fe | Ni | Co | MnO ₂ | TMn | | | | | | | |
|---------------------------------|-----------------|-------------------------------|------------------|-------------------|--------------------------------|--------------------------------|--------|-------------------------------|-------------------|---------|--------------------------------|-------------------|-------------------|------------------|----|------------------|
| NCS DC 35001 Tin Concentrate | | 45.80 | | | | | | | | | | | | | | |
| NCS DC 35002 Tin Concentrate | 0.182 | 62.49 | | | | | | | | | | | | | | |
| NCS DC 35003 Lead Concentrate | | 3.46 | | | | | | | | | | | | | | |
| NCS DC 35004 Zinc Concentrate | | 0.062 | (0.0082) | 0.042 | | | | | | | | | | | | |
| NCS DC 35008 Tin Ore | | 0.125 | | | | | | | | | | | | | | |
| NCS DC 35009 Tin Ore | | 0.930 | | | | | | | | | | | | | | |
| NCS DC 35014 Tin Concentrate | | | | | 14.77 | | | | | | | | | | | |
| NCS DC 35015 Manganese Ore | | | | | | 0.014 | 0.025 | 68.28 | 49.00 | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | |
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Mn | Ti | P | S | K ₂ O | Na ₂ O | | | |
| NCS DC 28046 Sintered Ore | | 56.14 | 9.17 | 5.54 | 2.07 | 10.35 | 2.21 | 0.227 | 0.076 | 0.064 | 0.032 | 0.125 | 0.048 | 70 | | |
| NCS DC 28047 Sintered Ore | | 50.04 | 8.07 | 7.6 | 2.11 | 13.72 | 2.08 | 0.39 | 0.067 | 0.028 | 0.125 | 0.091 | 0.53 | 70 | | |
| NCS DC 28048 Sintered Ore | | 54.16 | 8.52 | 6.04 | 2.23 | 10.93 | 3.05 | 0.21 | 0.075 | 0.068 | 0.052 | 0.076 | 0.19 | 70 | | |
| NCS DC 28049 Sintered Ore | | 52.16 | 8.06 | 6.92 | 2.17 | 13.05 | 1.63 | 0.44 | 0.067 | 0.024 | 0.096 | 0.082 | 0.38 | 70 | | |
| NCS DC 28050 Sintered Ore | | 53.26 | 9.53 | 6.24 | 2.24 | 11.31 | 2.7 | 0.286 | 0.082 | 0.049 | 0.075 | 0.084 | 0.44 | 70 | | |
| NCS DC 28051 Pellet Iron Ore | | 63.56 | 0.35 | 4.57 | 0.926 | 1.12 | 1.48 | 0.134 | 0.071 | 0.018 | 0.015 | 0.13 | 0.07 | 70 | | |
| NCS DC 28052 Pellet Iron Ore | | 64.53 | 0.28 | 5.65 | 0.77 | 0.3 | 0.32 | 0.075 | 0.122 | 0.025 | 0.0053 | 0.038 | 0.054 | 70 | | |
| NCS DC 28053 Pellet Iron Ore | | 61.68 | 0.24 | 10.32 | 0.84 | 0.33 | 0.38 | 0.042 | 0.063 | 0.017 | 0.02 | 0.071 | 0.046 | 70 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | |
| | | Cu | S | MgO | As | Zn | Pb | Ag(g/t) | Sb | Au(g/t) | Fe | Mn | Cd | Ni | | |
| NCS DC 28054 Copper Ore | | 6.78 | 0.082 | 12.51 | 0.209 | 0.456 | 0.106 | 126.1 | | 0.05 | 15.39 | 0.124 | 0.0021 | <0.005 | 50 | |
| NCS DC 28055 Copper Ore | | 12.79 | 1.54 | 0.18 | 4.68 | 0.64 | 0.037 | 85.9 | 0.25 | 0.04 | 3.22 | 0.11 | 0.0067 | 0.017 | 50 | |
| NCS DC 28056 Copper Ore | | 8.46 | 0.86 | 7.04 | 2.14 | 0.503 | 0.087 | 109.9 | 0.22 | 0.05 | 10.44 | 0.169 | 0.0064 | 0.011 | 50 | |
| NCS DC 28057 Copper Concentrate | | 10.71 | 25.05 | 4.01 | 0.034 | 0.052 | 0.019 | 12 | | 6.16 | 29.34 | 0.084 | <0.001 | 0.072 | 20 | |
| NCS DC 28058 Copper Concentrate | | 20.56 | 22.87 | 7.63 | 0.012 | 0.194 | 0.015 | 17.1 | | 4.68 | 24.7 | 0.013 | <0.001 | 0.093 | 20 | |
| NCS DC 28059 Copper Concentrate | | 16.6 | 23.92 | 5.81 | 0.02 | 0.131 | 0.017 | 14.8 | | 5.1 | 26.39 | 0.044 | <0.001 | 0.082 | 20 | |
| Number | Name | F | Bi | | | | | | | | | | | | | Unit Size (in g) |
| NCS DC 28054 Copper Ore | | 1.15 | 0.283 | | | | | | | | | | | | | |
| NCS DC 28055 Copper Ore | | 0.028 | 0.023 | | | | | | | | | | | | | |
| NCS DC 28056 Copper Ore | | 0.53 | 0.19 | | | | | | | | | | | | | |
| NCS DC 28057 Copper Concentrate | | 0.036 | | | | | | | | | | | | | | |
| NCS DC 28058 Copper Concentrate | | 0.056 | | | | | | | | | | | | | | |
| NCS DC 28059 Copper Concentrate | | 0.052 | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | |
| | | TMn | TFe | SiO ₂ | Al ₂ O ₃ | CaO | MgO | K ₂ O | Na ₂ O | S | P | MnO ₂ | | | | |
| NCS DC 28060 Manganese Ore | | 18.22 | 5.86 | 38.94 | 10.39 | 1.22 | 0.84 | 2.34 | 0.054 | 0.025 | 0.082 | 27.06 | 50 | | | |
| NCS DC 28061 Manganese Ore | | 22.93 | 6.71 | 31.42 | 9.88 | 1.11 | 0.94 | 1.95 | 0.053 | 0.23 | 0.073 | 33.45 | 50 | | | |
| NCS DC 28062 Manganese Ore | | 34.67 | 8.05 | 10.7 | 9.97 | 0.48 | 0.87 | 1.14 | 0.063 | 0.011 | 0.05 | 51.64 | 50 | | | |
| NCS DC 28063 Manganese Ore | | 27.45 | 8.1 | 20.96 | 10.05 | 0.99 | 1.16 | 1.57 | 0.064 | 0.6 | 0.059 | 39.38 | 50 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | |
| | | CaF ₂ | SiO ₂ | CaCO ₃ | Fe ₂ O ₃ | S | P | K ₂ O | Na ₂ O | MgO | Al ₂ O ₃ | Mn | | | | |
| NCS DC 28084 Fluorspar | | 46.59 | 28.89 | 9.08 | 0.52 | 0.071 | 0.0071 | 0.34 | 0.061 | 5.51 | 0.99 | 0.051 | 50 | | | |
| NCS DC 28085 Fluorspar | | 60.16 | 27.17 | 3.73 | 1.32 | 0.52 | 0.021 | 0.41 | 0.067 | 1.99 | 1.29 | 0.034 | 50 | | | |
| NCS DC 28086 Fluorspar | | | 19.27 | 2.06 | 0.87 | 0.28 | 0.023 | 0.38 | 0.054 | 0.73 | 1.07 | 0.027 | 50 | | | |
| NCS DC 28087 Fluorspar | | 83.12 | 13.74 | 1.06 | 0.36 | 0.05 | 0.018 | 0.28 | 0.031 | 0.14 | 0.69 | 0.0099 | 50 | | | |
| NCS DC 28088 Fluorspar | | 96.87 | 1.76 | 0.14 | 0.173 | 0.092 | 0.015 | 0.036 | 0.019 | 0.015 | 0.14 | 0.04 | 50 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | |
| | | SiO ₂ | CaO | MgO | Fe ₂ O ₃ | Al ₂ O ₃ | MnO | P ₂ O ₅ | TiO ₂ | SrO | K ₂ O | Na ₂ O | S | L.O.I | | |
| NCS DC 28089 Magnesite | | 4.13 | 1.52 | 43.45 | 1.74 | 1.14 | 0.095 | 0.036 | 0.041 | 0.0013 | 0.037 | 0.018 | 0.015 | 47.35 | 50 | |
| NCS DC 28089a Magnesite | | 4.95 | 1.26 | 43.44 | 1.66 | 1.46 | 0.083 | 0.037 | 0.048 | 0.0014 | 0.044 | 0.02 | 0.015 | 46.57 | 50 | |
| NCS DC 28090 Magnesite | | 0.32 | 0.53 | 46.4 | 0.65 | 0.1 | 0.016 | 0.013 | 0.006 | 0.0005 | 0.005 | 0.017 | 0.0027 | 51.58 | 50 | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(g/T) | | | | | | | | | | | | Unit Size (in g) | | |
|--------------|-------------------------------------|-------------------------------|------------------|------------------|--------------------------------|--------------------------------|--------|------------------|--------------------------------|-------------------------------|--------------------------------|-------------------|-------------------|-------------------------------|---------------------|---------------------|
| NCS DC 28101 | Gold ore | Au | Ag | | | | | | | | | | | 500 | | |
| NCS DC 28102 | Gold ore | 2.5 | 2.2 | | | | | | | | | | | 500 | | |
| NCS DC 28103 | Gold ore | 1.8 | 3.1 | | | | | | | | | | | 500 | | |
| NCS DC 28104 | Gold ore | 63.4 | 62.2 | | | | | | | | | | | 250 | | |
| NCS DC 28105 | Gold ore | 5 | 5.8 | | | | | | | | | | | 500 | | |
| NCS DC 28106 | Gold ore | 11 | 11 | | | | | | | | | | | 500 | | |
| NCS DC 28107 | Gold ore | 20 | 20.4 | | | | | | | | | | | 250 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| NCS DC 28108 | MAGNETIC IRON ORE | TFe | FeO | SiO ₂ | S | P | Ti | TiO ₂ | Al ₂ O ₃ | MgO | K ₂ O | Na ₂ O | Mn | Cu | 70 | |
| NCS DC 28109 | MAGNETIC IRON ORE | 46.93 | 19.95 | 14.75 | 0.637 | 0.039 | 0.067 | 0.112 | 2.05 | 5.54 | 0.33 | 0.22 | 0.058 | 0.119 | 70 | |
| NCS DC 28110 | MAGNETIC IRON ORE | 66.52 | 27.91 | 3.26 | 0.064 | 0.0062 | 0.037 | 0.061 | 0.62 | 1.96 | 0.091 | 0.032 | 0.07 | 0.01 | 70 | |
| NCS DC 28111 | MAGNETIC IRON ORE | 62.63 | 23.21 | 3.15 | 0.255 | 0.017 | 0.096 | 0.16 | 1.19 | 5.21 | 0.068 | 0.023 | 0.17 | 0.018 | 70 | |
| NCS DC 28112 | MAGNETIC IRON ORE | 50.94 | 20.67 | 13.83 | 0.43 | 0.033 | 0.065 | 0.108 | 1.42 | 3.95 | 0.204 | 0.14 | 0.098 | 0.305 | 70 | |
| NCS DC 28112 | MAGNETIC IRON ORE | 56.23 | 24.15 | 7.81 | 0.369 | 0.023 | 0.62 | 1.03 | 1.39 | 4.89 | 0.133 | 0.07 | 0.132 | 0.527 | 70 | |
| NCS DC 28113 | MAGNETIC IRON ORE | 64.42 | 27 | 3.56 | 0.381 | 0.011 | 0.315 | 0.522 | 0.9 | 3.28 | 0.099 | 0.034 | 0.109 | 0.047 | 70 | |
| NCS DC 28114 | MAGNETIC IRON ORE | 65.71 | 27.14 | 2.07 | 0.158 | 0.013 | 0.418 | 0.697 | 0.83 | 3.33 | 0.048 | 0.015 | 0.127 | 0.016 | 70 | |
| NCS DC 28115 | MAGNETIC IRON ORE | 68.29 | 28.25 | 2.08 | 0.041 | 0.0047 | 0.034 | 0.057 | 0.43 | 1.25 | 0.06 | 0.021 | 0.061 | 0.0065 | 70 | |
| NCS DC 28116 | LEAD ORE | 6.78 | | 7.92 | 19.26 | | | | 2.56 | 1.28 | | | 0.029 | 0.85 | 25 | |
| Number | Name | Zn | As | CaO | Pb | Ag | Cd | Sb | Bi | | | | | | | Unit Size (in g) |
| NCS DC 28108 | MAGNETIC IRON ORE | 0.0038 | | 7.12 | | | | | | | | | | | | |
| NCS DC 28109 | MAGNETIC IRON ORE | 0.0052 | | 1.1 | | | | | | | | | | | | |
| NCS DC 28110 | MAGNETIC IRON ORE | 0.01 | | 1.09 | | | | | | | | | | | | |
| NCS DC 28111 | MAGNETIC IRON ORE | 0.017 | 0.083 | 4.85 | | | | | | | | | | | | |
| NCS DC 28112 | MAGNETIC IRON ORE | 0.037 | 0.167 | 2.73 | | | | | | | | | | | | |
| NCS DC 28113 | MAGNETIC IRON ORE | 0.0096 | 0.013 | 1.06 | | | | | | | | | | | | |
| NCS DC 28114 | MAGNETIC IRON ORE | 0.008 | | 0.72 | | | | | | | | | | | | |
| NCS DC 28115 | MAGNETIC IRON ORE | 0.0037 | | 0.7 | | | | | | | | | | | | |
| NCS DC 28116 | LEAD ORE | 1.44 | 0.068 | 17.16 | 15.09 | 0.022 | 0.0097 | 0.0084 | 0.085 | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| NCS DC 28117 | Graphite | St,d | Ad | Vd | SiO ₂ | Fe ₂ O ₃ | CaO | MgO | Al ₂ O ₃ | TiO ₂ | MnO | K ₂ O | Na ₂ O | P ₂ O ₅ | 50 | |
| NCS DC 28118 | Graphite | 0.17 | 3.47 | 1.33 | 1.76 | 0.46 | 0.19 | 0.18 | 0.63 | 0.014 | 0.005 | 0.17 | 0.009 | 0.004 | 50 | |
| NCS DC 28118 | Graphite | 0.49 | 11.45 | 1.87 | 5 | 1.98 | 0.91 | 1 | 1.92 | 0.085 | 0.021 | 0.19 | 0.088 | 0.007 | 50 | |
| NCS DC 28119 | Graphite | 0.02 | 29 | 2.88 | 15.66 | 2.09 | 0.23 | 0.55 | 8.13 | 0.44 | 0.032 | 1.33 | 0.28 | 0.087 | 50 | |
| NCS DC 28120 | Graphite Ore | 1.06 | 95.62 | 2.22 | 52.73 | 5.34 | 11.81 | 8.79 | 10.93 | 0.39 | 0.048 | 2.39 | 1.5 | 0.083 | 50 | |
| NCS DC 28121 | Graphite Ore | 0.99 | 90.65 | 2.48 | 50.28 | 5 | 11.12 | 8.43 | 10.72 | 0.36 | 0.047 | 2.32 | 1.38 | 0.083 | 50 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| NCS DC 28122 | Vanadium-titanium-Magnetic Iron Ore | TFe | TiO ₂ | SiO ₂ | Al ₂ O ₃ | CaO | MgO | S | P | V ₂ O ₅ | Cr ₂ O ₃ | FeO | MnO | Ni | 70 | |
| NCS DC 28122 | Vanadium-titanium-Magnetic Iron Ore | 56.26 | 14.48 | 1.72 | 2.73 | 0.42 | 2.22 | 0.014 | 0.061 | 0.56 | 0.076 | 29.22 | 0.546 | 0.0058 | 70 | |
| NCS DC 28123 | Vanadium-titanium-Magnetic Iron Ore | 54.89 | 9.63 | 7.44 | 1.20 | 4.06 | 0.83 | 0.203 | 0.081 | 0.251 | 0.018 | 26.56 | 0.331 | 0.0041 | 70 | |
| NCS DC 28124 | Vanadium-titanium-Magnetic Iron Ore | 55.23 | 11.71 | 5.15 | 1.80 | 2.54 | 1.42 | 0.118 | 0.074 | 0.368 | 0.040 | 27.48 | 0.421 | 0.0044 | 70 | |
| NCS DC 28125 | Vanadium-titanium-Magnetic Iron Ore | 50.16 | 13.92 | 7.16 | 3.33 | 1.69 | 2.78 | 0.015 | 0.080 | 0.623 | 0.068 | 26.05 | 0.50 | 0.0063 | 70 | |
| NCS DC 28126 | Vanadium-titanium-Magnetic Iron Ore | 58.18 | 12.24 | 1.59 | 2.18 | 0.366 | 1.90 | 0.016 | 0.052 | 0.834 | 0.055 | 29.06 | 0.481 | 0.0053 | 70 | |
| NCS DC 28127 | Vanadium-titanium-Magnetic Iron Ore | 52.26 | 10.32 | 8.10 | 2.98 | 1.88 | 2.50 | 0.014 | 0.092 | 0.715 | 0.040 | 25.80 | 0.411 | 0.0058 | 70 | |
| Number | Name | Cu | Co | Zn | | | | | | | | | | | | Unit Size (in g) |
| NCS DC 28122 | Vanadium-titanium-Magnetic Iron Ore | 0.0048 | 0.010 | 0.061 | | | | | | | | | | | | |
| NCS DC 28123 | Vanadium-titanium-Magnetic Iron Ore | 0.0070 | 0.0066 | 0.0085 | | | | | | | | | | | | |
| NCS DC 28124 | Vanadium-titanium-Magnetic Iron Ore | 0.0061 | 0.010 | 0.028 | | | | | | | | | | | | |
| NCS DC 28125 | Vanadium-titanium-Magnetic Iron Ore | 0.0065 | 0.015 | 0.055 | | | | | | | | | | | | |
| NCS DC 28126 | Vanadium-titanium-Magnetic Iron Ore | 0.0042 | 0.015 | 0.050 | | | | | | | | | | | | |
| NCS DC 28127 | Vanadium-titanium-Magnetic Iron Ore | 0.0058 | 0.012 | 0.040 | | | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|--------------|--------------|--------------------------------|------------------|------------------|--------------------------------|-------|-------|--------|--------|-------------------------------|--------------------------------|-------|-------|------------------|---------------------|
| | | Cr ₂ O ₃ | TFe | SiO ₂ | Al ₂ O ₃ | CaO | MgO | S | P | Ti | V | Mn | Ni | K ₂ O | |
| NCS DC 28128 | Chromite Ore | 27.55 | 9.76 | 12.55 | 18.94 | 1.27 | 20.48 | 0.035 | 0.0029 | 0.145 | 0.077 | 0.114 | 0.169 | 0.043 | 50 |
| NCS DC 28129 | Chromite Ore | 33.00 | 12.90 | 12.19 | 13.94 | 1.00 | 17.27 | 0.021 | 0.0030 | 0.136 | 0.089 | 0.180 | 0.162 | 0.035 | 50 |
| NCS DC 28130 | Chromite Ore | 46.74 | 20.34 | 0.79 | 14.53 | 0.053 | 9.79 | 0.003 | 0.0027 | 0.373 | 0.215 | 0.156 | 0.092 | 0.014 | 50 |
| NCS DC 28131 | Chromite Ore | 45.10 | 19.66 | 2.93 | 13.70 | 0.18 | 10.37 | 0.0029 | 0.0033 | 0.344 | 0.207 | 0.150 | 0.094 | 0.015 | 50 |
| NCS DC 28132 | Chromite Ore | 36.50 | 14.83 | 7.70 | 16.22 | 0.69 | 15.32 | 0.022 | 0.0028 | 0.244 | 0.143 | 0.133 | 0.134 | 0.033 | 50 |
| NCS DC 28133 | Chromite Ore | 40.20 | 16.74 | 4.73 | 15.97 | 0.46 | 13.41 | 0.017 | 0.0037 | 0.294 | 0.162 | 0.142 | 0.121 | 0.023 | 50 |
| | | Co | Zn | | | | | | | | | | | | |
| NCS DC 28128 | Chromite Ore | 0.016 | 0.049 | | | | | | | | | | | | |
| NCS DC 28129 | Chromite Ore | 0.027 | 0.102 | | | | | | | | | | | | |
| NCS DC 28130 | Chromite Ore | 0.025 | 0.071 | | | | | | | | | | | | |
| NCS DC 28131 | Chromite Ore | 0.025 | 0.065 | | | | | | | | | | | | |
| NCS DC 28132 | Chromite Ore | 0.022 | 0.058 | | | | | | | | | | | | |
| NCS DC 28133 | Chromite Ore | 0.022 | 0.065 | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | TFe | TiO ₂ | SiO ₂ | Al ₂ O ₃ | CaO | MgO | S | P | V ₂ O ₅ | Cr ₂ O ₃ | FeO | MnO | Ni | |
| NCS DC 28134 | Titanium Ore | 14.85 | 7.11 | 38.43 | 8.67 | 12.39 | 6.33 | 0.196 | 0.883 | 0.062 | 0.0084 | 12.45 | 0.216 | 0.0037 | 50 |
| NCS DC 28135 | Titanium Ore | 15.07 | 6.14 | 42.61 | 8.82 | 9.87 | 6.78 | 0.021 | 0.232 | 0.092 | 0.0095 | 12.77 | 0.187 | 0.0098 | 50 |
| NCS DC 28136 | Titanium Ore | 26.50 | 27.23 | 14.41 | 2.31 | 9.49 | 2.34 | 4.77 | 1.07 | 0.066 | 0.0078 | 23.62 | 0.802 | 0.013 | 50 |
| NCS DC 28137 | Titanium Ore | 30.31 | 40.66 | 9.21 | 1.35 | 4.78 | 1.30 | 1.52 | 0.117 | 0.068 | 0.0064 | 33.33 | 1.20 | 0.0084 | 50 |
| NCS DC 28138 | Titanium Ore | 34.79 | 47.82 | 2.65 | 0.68 | 0.68 | 2.11 | 0.184 | 0.0076 | 0.095 | 0.014 | 39.14 | 0.652 | 0.0029 | 50 |
| NCS DC 28139 | Titanium Ore | 22.04 | 55.68 | 1.54 | 2.30 | 0.070 | 1.09 | 0.025 | 0.047 | 0.266 | 2.80 | 9.15 | 1.26 | 0.0007 | 50 |
| NCS DC 28140 | Titanium Ore | 33.02 | 45.73 | 4.85 | 0.95 | 2.23 | 1.68 | 0.74 | 0.048 | 0.203 | 0.012 | 36.68 | 0.882 | 0.0051 | 50 |
| NCS DC 28141 | Titanium Ore | 33.58 | 45.61 | 4.16 | 0.867 | 1.65 | 1.74 | 0.536 | 0.047 | 0.188 | 0.0067 | 37.51 | 0.799 | 0.0046 | 50 |
| NCS DC 28142 | Titanium Ore | 30.23 | 50.06 | 2.04 | 1.30 | 0.68 | 1.52 | 0.172 | 0.048 | 0.700 | 0.84 | 28.85 | 0.875 | 0.0021 | 50 |
| NCS DC 28143 | Titanium Ore | 29.29 | 35.60 | 10.41 | 1.65 | 6.25 | 1.55 | 2.76 | 0.476 | 0.505 | 0.0077 | 29.34 | 1.02 | 0.011 | 50 |
| | | Cu | Co | Zn | | | | | | | | | | | |
| NCS DC 28134 | Titanium Ore | 0.0082 | 0.0052 | 0.019 | | | | | | | | | | | |
| NCS DC 28135 | Titanium Ore | 0.016 | 0.0079 | 0.018 | | | | | | | | | | | |
| NCS DC 28136 | Titanium Ore | 0.038 | 0.015 | 0.015 | | | | | | | | | | | |
| NCS DC 28137 | Titanium Ore | 0.022 | 0.010 | 0.014 | | | | | | | | | | | |
| NCS DC 28138 | Titanium Ore | 0.0056 | 0.0087 | 0.016 | | | | | | | | | | | |
| NCS DC 28139 | Titanium Ore | 0.0093 | 0.0026 | 0.017 | | | | | | | | | | | |
| NCS DC 28140 | Titanium Ore | 0.013 | 0.051 | 0.016 | | | | | | | | | | | |
| NCS DC 28141 | Titanium Ore | 0.011 | 0.0098 | 0.015 | | | | | | | | | | | |
| NCS DC 28142 | Titanium Ore | 0.0073 | 0.011 | 0.017 | | | | | | | | | | | |
| NCS DC 28143 | Titanium Ore | 0.027 | 0.013 | 0.016 | | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
|---------------|-----------------------------------|-------------------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|--------|--------|------------------|------------------|------------------|--------|---------------------|-------|---------------------|
| | | SiO ₂ | CaO | MgO | Fe ₂ O ₃ | Al ₂ O ₃ | MnO | P | S | L.O.I | TiO ₂ | SrO | | | |
| NCS DC 28201 | Dolomite | 6.75 | 30.62 | 20.53 | 0.085 | 0.0048 | 0.0072 | 0.0012 | 0.0019 | 41.00 | | | | 50 | |
| NCS DC 28202 | Dolomite | 2.12 | 30.79 | 20.73 | 0.275 | 0.203 | 0.026 | 0.0013 | 0.016 | 45.22 | | | | 50 | |
| NCS DC 28203 | Dolomite | 1.45 | 34.74 | 17.16 | 0.404 | 0.286 | 0.012 | 0.016 | 0.028 | 45.58 | | | | 50 | |
| NCS DC 28204 | Limestone | 0.83 | 50.72 | 3.96 | 0.208 | 0.18 | 0.012 | 0.0076 | 0.016 | 43.70 | 0.006 | 0.046 | | 50 | |
| NCS DC 28205 | Limestone | 2.17 | 52.42 | 1.92 | 0.197 | 0.39 | 0.0054 | 0.0019 | 0.012 | 42.53 | 0.0093 | 0.023 | | 50 | |
| NCS DC 28206 | Limestone | 4.64 | 41.66 | 11.31 | 0.112 | 0.16 | 0.005 | 0.0032 | 0.0093 | 41.70 | 0.0056 | 0.015 | | 50 | |
| NCS DC 28207 | Dolomite | 1.26 | 30.33 | 20.88 | 0.44 | 0.27 | 0.013 | 0.018 | 0.033 | 46.11 | | | | 50 | |
| NCS DC 28208 | Dolomite | 0.99 | 30.8 | 20.79 | 0.32 | 0.23 | 0.019 | 0.0013 | 0.022 | 46.2 | | | | 50 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | TMn | MnO ₂ | TFe | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | TiO ₂ | Cu | Zn | Ni | S | |
| NCS DC 28209 | Manganese | 27.76 | 21 | 12 | 17.54 | 1.77 | 5.44 | 4.08 | 0.085 | 0.0066 | 0.0071 | 0.0025 | 0.0067 | 0.069 | 50 |
| NCS DC 28210 | Manganese | 44.76 | 66.46 | 5.72 | 4.62 | 7.28 | 0.24 | 0.257 | 0.34 | 0.062 | 0.088 | 0.057 | 0.014 | 0.099 | 50 |
| NCS DC 28211 | Manganese | 32.7 | 32.32 | 10.47 | 14.4 | 3.3 | 4.21 | 3.04 | 0.16 | 0.02 | 0.027 | 0.016 | 0.009 | 0.087 | 50 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | TiO ₂ | S | P | | | | |
| NCS DC 28212 | Iron Ore | 56.25 | 26.9 | 8.86 | 2.53 | 8.04 | 1.96 | 0.289 | 0.208 | 0.197 | 0.032 | | | | 100 |
| NCS DC 28213 | Iron Ore | 50.92 | 19.9 | 13.68 | 3.28 | 6.9 | 3.4 | 0.943 | 0.241 | 0.13 | 0.05 | | | | 100 |
| NCS DC 28214 | Iron Ore | 65.97 | 27 | 5.02 | 0.7 | 0.43 | 0.45 | 0.094 | 0.541 | 0.291 | 0.013 | | | | 100 |
| NCS DC 28215 | Iron Ore | 63.93 | 26.9 | 5.9 | 1.09 | 2.06 | 0.79 | 0.136 | 0.444 | 0.282 | 0.017 | | | | 100 |
| NCS DC 28216 | Iron Ore | 62.01 | 26.9 | 6.74 | 1.46 | 3.65 | 1.1 | 0.176 | 0.388 | 0.258 | 0.02 | | | | 100 |
| NCS DC 28217 | Iron Ore | 64.82 | 24.5 | 4.91 | 1.3 | 0.85 | 0.31 | 0.088 | 0.949 | 0.011 | 0.053 | | | | 100 |
| NCS DC 28218 | Iron Ore | 64.81 | 25.4 | 5.04 | 0.8 | 0.65 | 1.78 | 0.084 | 0.477 | 0.035 | 0.026 | | | | 100 |
| NCS DC 28219 | Iron Ore | 68.55 | 23 | 3.21 | 0.54 | 0.21 | 0.2 | 0.052 | 0.116 | 0.027 | 0.0054 | | | | 100 |
| NCS DC 28220 | Iron Ore | 69.05 | 23.8 | 2.45 | 0.5 | 0.2 | 0.17 | 0.079 | 0.313 | 0.011 | 0.01 | | | | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | TiO ₂ | P | S | | | | |
| NCS DC 28221 | Iron Ore | 67.84 | 28.8 | 2.34 | 0.6 | 0.63 | 1.4 | 0.07 | 0.0061 | 0.0046 | 0.041 | | | | 100 |
| NCS DC 28222 | Iron Ore | 66.64 | 0.11 | 27.9 | 2.96 | 0.76 | 0.86 | 1.62 | 0.091 | 0.07 | 0.0051 | | | | 100 |
| NCS DC 28223 | Iron Ore | 66.31 | 24.4 | 4.17 | 1.04 | 0.64 | 0.26 | 0.085 | 0.709 | 0.039 | 0.011 | | | | 100 |
| NCS DC 28224 | Iron Ore | 63.2 | 1.4 | 6.55 | 1.02 | 0.86 | 0.5 | 0.083 | 0.319 | 0.02 | 0.015 | | | | 100 |
| NCS DC 28225 | Iron Ore | 54.96 | 10.7 | 5.89 | 2.93 | 11.49 | 0.98 | 0.171 | 0.152 | 0.05 | 0.032 | | | | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | CaF ₂ | CaCO ₃ | SiO ₂ | TFe | Mn | S | P | | | | | | | |
| NCS DC 28226 | Fluorite | 77.33 | 0.20 | 18.04 | 0.31 | 0.014 | 0.068 | | | | | | | | 50 |
| NCS DC 28227 | Fluorite | 78.75 | 0.33 | 19.36 | 0.28 | 0.012 | 0.028 | | | | | | | | 50 |
| NCS DC 28228 | Fluorite | 94.81 | 0.99 | 2.76 | 0.26 | 0.010 | 0.107 | 0.076 | | | | | | | 50 |
| NCS DC 28229 | Fluorite | 85.56 | 0.58 | 10.62 | 0.28 | 0.013 | 0.079 | 0.045 | | | | | | | 50 |
| NCS DC 28230 | Fluorite | 90.72 | 0.87 | 7.68 | 0.25 | 0.012 | 0.084 | 0.063 | | | | | | | 50 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | TiO ₂ | P | S | Cu | C | | |
| NCS DC 28231 | Sintering Ore | 56.53 | 22.9 | 5.57 | 1.90 | 11.46 | 1.75 | 0.202 | 0.103 | 0.027 | 0.063 | | | | 100 |
| NCS DC 28232 | Iron Ore | 67.42 | 27.40 | 1.80 | 0.78 | 0.61 | 2.43 | 0.132 | 0.069 | 0.0065 | 0.318 | | | | 100 |
| NCS DC 28233 | Iron Ore | 53.35 | 17.20 | 9.42 | 0.70 | 2.13 | 8.83 | 0.203 | 0.052 | 0.012 | 0.083 | | | | 100 |
| NCS DC 28234a | Iron Ore | 45.17 | 15.10 | 15.55 | 1.33 | 4.74 | 9.82 | 0.167 | 0.090 | 0.023 | 0.104 | | | | 100 |
| NCS DC 28234b | Iron Ore | 48.87 | 15.9 | 12.85 | 1.12 | 3.75 | 8.88 | 0.185 | 0.083 | 0.022 | 0.095 | 0.015 | 0.544 | | 100 |
| NCS DC 28234c | Iron Ore | 49.64 | 21.1 | 11.54 | 1.87 | 5.85 | 5.81 | 0.112 | 0.105 | 0.040 | 0.504 | 0.156 | 0.798 | | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | TFe | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Cr | Ni | Mn | Ti | Co | S | | | |
| NCS DC 28235 | High Chromium - Nickel - Iron ore | 38.38 | 15.21 | 2.89 | 0.20 | 8.16 | 1.50 | 1.36 | 0.67 | 0.042 | 0.114 | 0.012 | | | 50 |
| NCS DC 28236 | High Chromium - Nickel - Iron ore | 49.05 | 3.60 | 6.53 | 0.51 | 0.64 | 1.66 | 1.02 | 0.51 | 0.075 | 0.069 | 0.112 | | | 50 |

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| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) |
|---------------|------------|-------------------------------|-------|------------------|--------------------------------|-------|------|-------|------------------|-------|--------|---------------------|
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | TiO ₂ | P | S | |
| NCS DC 28237 | Sinter Ore | 55.24 | 13.80 | 6.45 | 2.80 | 10.80 | 1.22 | 0.205 | 0.157 | 0.048 | 0.068 | 100 |
| NCS DC 28238 | Sinter Ore | 51.72 | 16.36 | 10.74 | 3.56 | 9.07 | 2.95 | 0.650 | 0.229 | 0.053 | 0.084 | 100 |
| NCS DC 28239a | Pellet Ore | 62.14 | 0.77 | 6.32 | 1.36 | 1.09 | 2.13 | 0.082 | 0.267 | 0.020 | 0.010 | 100 |
| NCS DC 28239b | Pellet Ore | 63.78 | 0.77 | 5.29 | 0.98 | 0.85 | 1.59 | 0.065 | 0.18 | 0.016 | 0.0086 | 100 |
| NCS DC 28240a | Pellet Ore | 66.18 | 0.78 | 3.81 | 0.43 | 0.51 | 0.79 | 0.040 | 0.048 | 0.010 | 0.0066 | 100 |
| NCS DC 28240b | Pellet Ore | 64.58 | 0.78 | 4.79 | 0.80 | 0.73 | 1.33 | 0.057 | 0.136 | 0.014 | 0.0080 | 100 |

| Number | Name | Chemical Composition | | | | | | | | Unit Size (in g) | |
|--------------|------------|----------------------|----------|-------|-------|-------|-------|-------|----------|---------------------|-------|
| | | Au(mg/g) | Ag(mg/g) | Cu(%) | Pb(%) | Zn(%) | As(%) | Sb(%) | Hg(mg/g) | | Cd(%) |
| NCS DC 29101 | Gold ore | 0.64 | | | | | | | | | 500 |
| NCS DC 29102 | Gold ore | 4.3 | 37.4 | 0.3 | 1.61 | 0.22 | | | | | 500 |
| NCS DC 29103 | Gold ore | 20 | 18 | 0.12 | 0.61 | 0.1 | | | | | 500 |
| NCS DC 29104 | Silver ore | | 50.3 | 0.19 | *83.8 | *84.9 | 0.027 | 0.012 | (3.85) | | 50 |
| NCS DC 29105 | Silver ore | | 138.1 | 0.5 | 0.02 | *67.6 | 0.073 | 0.032 | (10.1) | | 50 |
| NCS DC 29106 | Silver ore | | 199 | 0.68 | 0.01 | 0.011 | 0.078 | 0.05 | (18) | | 50 |
| NCS DC 29107 | Copper ore | | 6.1 | 0.29 | *34.5 | 0.01 | *41.4 | *23.4 | (0.15) | | 50 |
| NCS DC 29108 | Copper ore | | 14.9 | 0.9 | *80 | 0.02 | *76.6 | *11.7 | (0.028) | | 50 |
| NCS DC 29109 | Copper ore | | 59.9 | 3.84 | 0.024 | 0.083 | 0.046 | *71 | (0.043) | *5.68 | 50 |
| NCS DC 29110 | Copper ore | | 120 | 8.53 | 0.027 | 0.19 | 0.02 | *35.3 | (0.039) | *13.5 | 50 |
| NCS DC 29111 | Pb-Zn ore | | 12.9 | 0.02 | 0.48 | 4.94 | *90 | *9.0 | (12.6) | 0.019 | 50 |
| NCS DC 29112 | Pb-Zn ore | | 362 | 0.1 | 2.93 | 0.51 | 0.082 | 0.011 | (0.233) | | 50 |
| NCS DC 29113 | Pb-Zn ore | | 103 | 0.075 | 2.19 | 1.54 | 0.04 | *38.3 | (0.074) | | 50 |
| NCS DC 29114 | Pb-Zn ore | | 367.9 | 0.071 | 22.96 | 16.22 | 0.138 | 0.044 | (270) | 0.066 | 50 |
| NCS DC 29115 | Pb-Zn ore | | 5.3 | 0.021 | 1.25 | 30.19 | *95 | *20.5 | (84.8) | 0.119 | 50 |

| Number | Name | Chemical Composition | | | | | | | | Unit Size (in g) |
|--------------|----------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|
| | | Pt(x10 ⁻⁶) | Pd(x10 ⁻⁶) | Ru(x10 ⁻⁹) | Rh(x10 ⁻⁹) | Ir(x10 ⁻⁹) | Os(x10 ⁻⁹) | Cu(x10 ⁻²) | Ni(x10 ⁻²) | |
| NCS DC 29116 | Platinum Group | 2.43 | 1.68 | 1.5 | 1.9 | 1.6 | 1.9 | 3.58 | 1.78 | 500 |
| NCS DC 29117 | Platinum Group | 10.61 | 0.6 | 4.2 | 3.6 | 4.4 | 3.7 | 3.01 | 1.76 | 500 |
| NCS DC 29118 | Platinum Group | 0.9 | 0.7 | 3.5 | 3.2 | 3.2 | 3 | 3.25 | 1.76 | 500 |
| NCS DC 29119 | Platinum Group | 4.44 | 1.33 | 0.71 | 1.4 | 1.9 | 1.6 | 0.62 | 0.053 | 500 |
| NCS DC 29120 | Platinum Group | 0.38 | 0.4 | 7.8 | 18 | 23.6 | 8.2 | 0.11 | 0.22 | 500 |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
|---------------|-------------------|-------------------------------|--------------------------------|--------------------------------|------------------------------------|------------------------------------|------------------|---------------------|-------------------|------------------|-------------------------------|---------------------|-------------------|-------------------|---------------------|--|
| | | TFe | SiO ₂ | Al ₂ O ₃ | Mn | P | S | Cu | TiO ₂ | K ₂ O | Na ₂ O | MgO | CaO | Zn | | |
| NCS DC 47004 | Manganese Ore | 1.22 | 16.16 | 2.20 | 45.39 | 0.054 | 0.007 | 0.013 | 0.063 | 1.00 | 0.044 | 0.64 | 1.06 | 0.027 | 100 | |
| NCS DC 47005 | Manganese Ore | 2.24 | 22.24 | 3.00 | 36.99 | 0.081 | 0.013 | 0.014 | 0.10 | 0.46 | 0.048 | 1.44 | 3.60 | 0.029 | 100 | |
| NCS DC 47007 | Manganese Ore | 20.99 | 10.46 | 8.97 | 25.00 | 0.275 | 0.032 | 0.028 | 0.54 | 0.72 | 0.030 | 0.10 | 0.051 | 0.048 | 100 | |
| NCS DC 47008 | Manganese Ore | 1.40 | 14.07 | 1.68 | 22.54 | 0.043 | 0.21 | 0.009 | 0.10 | 0.46 | 0.024 | 3.50 | 14.73 | 0.018 | 100 | |
| NCS DC 47009 | Manganese Ore | 2.07 | 15.82 | 2.49 | 15.74 | 0.061 | 0.27 | 0.014 | 0.15 | 0.70 | 0.040 | 3.82 | 19.78 | 0.020 | 100 | |
| | | Ni | BaO | MnO ₂ | Mn(Co ₃ ²⁺) | Mn(Si ₃ ²⁺) | | | | | | | | | | |
| NCS DC 47004 | Manganese Ore | 0.019 | 0.68 | 67.25 | | (0.028) | | | | | | | | | | |
| NCS DC 47005 | Manganese Ore | 0.019 | 0.47 | 54.38 | | (0.019) | | | | | | | | | | |
| NCS DC 47007 | Manganese Ore | 0.073 | 0.23 | 36.93 | | (0.004) | | | | | | | | | | |
| NCS DC 47008 | Manganese Ore | 0.041 | 0.13 | | 22.46 | (0.015) | | | | | | | | | | |
| NCS DC 47009 | Manganese Ore | 0.050 | 0.15 | | 15.69 | (0.012) | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (in g) | | | | | | | | |
| | | TFe | SiFe | SFe | MFe | OFe | CFe | | | | | | | | | |
| NCS DC 47010 | State Of Iron Ore | 44.67 | (1.3) | 0.9 | 10.0 | (16.5) | 15.6 | 100 | | | | | | | | |
| NCS DC 47011 | State Of Iron Ore | 52.96 | (0.8) | 0.7 | 46.9 | (2.6) | 2.0 | 100 | | | | | | | | |
| NCS DC 47012 | State Of Iron Ore | 43.73 | (0.7) | 6.4 | 30.0 | (2.2) | 4.5 | 100 | | | | | | | | |
| NCS DC 47013 | State Of Iron Ore | 48.76 | (2.9) | (0.04) | 0.8 | (44.7) | 0.3 | 100 | | | | | | | | |
| NCS DC 47014 | State Of Iron Ore | 26.90 | (4.8) | (0.08) | 18.5 | (2.8) | 0.8 | 100 | | | | | | | | |
| NCS DC 47015 | State Of Iron Ore | 35.85 | (1.3) | (0.03) | 33.8 | (0.3) | 0.3 | 100 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | | |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | TiO ₂ | CaO | MgO | K ₂ O | Na ₂ O | CaF ₂ | L.O.I | | | | | |
| NCS DC 62001 | Iron Ore | 33.06 | 5.16 | 48.86 | 0.24 | 2.56 | 1.00 | 2.51 | 0.17 | | 5.45 | | | 20 | | |
| NCS DC 62002 | Limestone | 2.86 | 0.56 | 0.45 | 0.02 | 50.94 | 2.69 | 0.11 | 0.14 | | 41.99 | | | 20 | | |
| NCS DC 62003 | Fluorite | 23.52 | 2.50 | 0.63 | | 0.50 | 0.03 | 1.21 | 0.32 | 67.22 | 0.62 | | | 20 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | TiO ₂ | CaO | MgO | K ₂ O | Na ₂ O | MnO | P ₂ O ₅ | SO ₃ | Cl | fSiO ₂ | | |
| NCS DC 60109a | Limestone | 4.05 | 0.94 | 0.58 | 0.052 | 50.09 | 1.79 | 0.42 | 0.027 | 0.014 | 0.033 | 0.054 | 0.0062 | 2.02 | 50 | |
| NCS DC 60110a | Limestone | 2.25 | 0.6 | 0.38 | 0.03 | 47.07 | 5.81 | 0.2 | 0.016 | 0.012 | 0.037 | 0.032 | 0.0054 | 1.21 | 50 | |
| | | L.O.I | CO ₂ | | | | | | | | | | | | | |
| NCS DC 60109a | Limestone | 41.53 | (41.32) | | | | | | | | | | | | | |
| NCS DC 60110a | Limestone | 43.22 | (43.02) | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | CaO | MgO | K ₂ O | Na ₂ O | TiO ₂ | MnO | P ₂ O ₅ | SO ₃ | H ₂ O* | L.O.I | | |
| NCS DC 60122a | Kaolin | 43.41 | 34.77 | 1.5 | 0.038 | 0.069 | 0.78 | 0.045 | 0.25 | 0.002 | 0.21 | 5.51 | 13.24 | 17.31 | 50 | |
| NCS DC 60123a | Kaolin | 45.3 | 37.7 | 0.35 | 0.064 | 0.021 | 0.042 | 0.045 | 0.06 | 0.0018 | 0.16 | 0.76 | 15.26 | 14.81 | 50 | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|---------------|--------------------|--------------------------------|------------------|--------------------------------|---------------------|-----------------|-------------------------------|---------|-----------------|------------------|--------------------------------|-------------------|-------|-------|---------------------|
| | | Fe ₂ O ₃ | SiO ₂ | Al ₂ O ₃ | MnO | FeO | P ₂ O ₅ | S | SO ₃ | TiO ₂ | K ₂ O | Na ₂ O | MgO | CaO | |
| NCS DC 60102 | Clay | 10.55 | 49.98 | 26.27 | 0.052 | (0.080) | 0.14 | | 0.049 | 0.70 | 0.79 | 0.060 | 0.46 | 0.13 | 50 |
| NCS DC 60104 | Clay | 0.33 | 53.67 | 31.32 | 0.020 | (0.052) | 0.053 | | 0.023 | 0.030 | 1.15 | 2.55 | 0.083 | 1.80 | 50 |
| NCS DC 60105 | Clay | 4.64 | 66.64 | 13.28 | 0.088 | (0.80) | 0.106 | | 0.027 | 0.66 | 2.50 | 1.81 | 1.84 | 3.23 | 60 |
| NCS DC 60106 | Shale | 5.67 | 69.53 | 14.82 | 0.024 | (0.40) | 0.043 | | 0.028 | 0.68 | 3.76 | 0.20 | 0.67 | 0.22 | 60 |
| NCS DC 60107a | Limestone | 0.11 | 1.09 | 0.24 | 0.0067 | | 0.0081 | | 0.018 | 0.010 | 0.084 | 0.017 | 0.81 | 54.03 | 50 |
| NCS DC 60108a | Limestone | 0.17 | 2.09 | 0.33 | 0.0089 | | 0.0061 | | 0.016 | 0.015 | 0.17 | 0.017 | 2.25 | 51.61 | 50 |
| NCS DC 60112 | Gypsum | 0.16 | 1.68 | 0.34 | | | | | 51.91 | 0.016 | 0.094 | 0.065 | 1.74 | 39.24 | 50 |
| NCS DC 60113 | Gypsum | 0.63 | 7.21 | 1.92 | | | | | 32.55 | 0.10 | 0.38 | 0.021 | 4.92 | 28.50 | 50 |
| NCS DC 60114 | Gypsum | 0.38 | 4.16 | 1.14 | | | | | 37.64 | 0.058 | 0.23 | 0.014 | 3.19 | 30.28 | 50 |
| NCS DC 60115 | Gypsum | 0.11 | 0.63 | 0.14 | | | | | 40.72 | 0.010 | 0.026 | 0.014 | 2.47 | 32.30 | 60 |
| NCS DC 60116 | Siliceous Sand Ore | 0.093 | 98.51 | 0.84 | (0.0016) | | (0.0041) | | | 0.020 | 0.061 | 0.021 | 0.066 | 0.077 | 60 |
| NCS DC 60117 | Siliceous Sand Ore | 0.21 | 95.74 | 2.36 | (0.0033) | | (0.0076) | | | 0.036 | 0.67 | 0.25 | 0.098 | 0.17 | 60 |
| NCS DC 60118 | Siliceous Sand Ore | 0.48 | 89.59 | 5.48 | (0.010) | | (0.014) | | | 0.102 | 2.07 | 1.09 | 0.16 | 0.34 | 60 |
| NCS DC 60119 | Graphite Ore | 6.73 | 49.84 | 12.93 | 0.084 | | 0.13 | 1.18 | | 0.57 | 2.54 | 1.60 | 6.10 | 9.37 | 60 |
| NCS DC 60120 | Graphite Ore | 6.99 | 49.34 | 13.03 | 0.054 | | 0.14 | 2.59 | | 0.64 | 2.17 | 1.56 | 5.35 | 5.34 | 50 |
| NCS DC 60121 | Graphite Ore | 1.48 | 10.34 | 5.60 | 0.022 | | 0.16 | 0.14 | | 0.55 | 0.99 | 0.23 | 0.50 | 0.74 | 50 |
| NCS DC 60122 | Kaolin | 0.50 | 54.55 | 31.41 | 0.0032 | (0.026) | 0.099 | | 0.53 | 0.69 | 0.34 | 0.015 | 0.12 | 0.052 | 50 |
| NCS DC 60123 | Kaolin | 0.72 | 44.55 | 38.62 | 0.0054 | (0.33) | 0.21 | | 0.12 | 0.39 | 0.049 | 0.069 | 0.068 | 0.16 | 50 |
| NCS DC 60124 | Siliceous Lime | 0.10 | 50.50 | 0.39 | 0.096 | 0.28 | 0.052 | (0.010) | | 0.022 | 0.14 | 0.052 | 0.95 | 40.39 | 50 |
| NCS DC 60125 | Nephelinite | 1.37 | 60.64 | 20.05 | 0.050 | 0.28 | 0.020 | (0.011) | | 0.12 | 5.06 | 8.97 | 0.13 | 0.52 | 50 |
| NCS DC 60126 | Nephelinite | 0.33 | 39.42 | 29.67 | 0.031 | 1.24 | 0.072 | | (0.064) | 0.14 | 4.72 | 12.59 | 0.92 | 5.98 | 50 |
| NCS DC 60127 | Pyrophyllite | 1.94 | 66.84 | 23.58 | 0.0037 | | 0.20 | | 0.61 | 0.70 | 0.38 | 0.34 | 0.087 | 0.17 | 50 |
| NCS DC 60128 | Pyrophyllite | 0.22 | 70.34 | 22.20 | 0.0040 | | 0.11 | | 0.17 | 0.18 | 0.028 | 0.043 | 0.041 | 0.066 | 50 |
| NCS DC 60129 | Brucite | 0.49 | 2.69 | 0.053 | 0.036 | | 0.12 | | | | 0.0041 | 0.0066 | 61.43 | 2.51 | 50 |
| NCS DC 60130 | Brucite | 0.40 | 4.47 | 0.067 | 0.033 | | 0.12 | | | | 0.0066 | 0.013 | 56.21 | 6.18 | 50 |
| NCS DC 60131 | Talcum | 0.29 | 62.03 | 0.082 | 0.0015 | | 0.14 | | | 0.0052 | 0.009 | 0.022 | 31.89 | 0.38 | 50 |
| NCS DC 60132 | Talcum | 2.64 | 47.71 | 7.62 | 0.021 | | 0.11 | | | 0.52 | 0.026 | 0.049 | 29.50 | 2.39 | 50 |
| | | Ash | Vdatile | Co | fsio ₂ * | CO ₂ | H ₂ O* | Cl | L.O.I | SrO | Cr ₂ O ₃ | A.U.M* | | | |
| NCS DC 60102 | Clay | | | | | (0.041) | (9.64) | 0.0041 | 10.62 | | | | | | |
| NCS DC 60104 | Clay | | | | | (0.051) | (8.64) | 0.0029 | 8.81 | | | | | | |
| NCS DC 60105 | Clay | | | | | 1.65 | (3.38) | 0.011 | 5.10 | | | | | | |
| NCS DC 60106 | Shale | | | | | 0.13 | (3.71) | 0.014 | 4.17 | | | | | | |
| NCS DC 60107a | Limestone | | | | 0.67 | (43.12) | | 0.0028 | 43.12 | | | | | | |
| NCS DC 60108a | Limestone | | | | 1.38 | (42.59) | | 0.0066 | 42.84 | | | | | | |
| NCS DC 60112 | Gypsum | | | | | (4.02) | 0.39 | 0.033 | 4.55 | (0.27) | | | | | |
| NCS DC 60113 | Gypsum | | | | | (8.63) | 14.27 | 0.019 | (23.55) | (0.071) | | | | | |
| NCS DC 60114 | Gypsum | | | | | (5.80) | 16.62 | 0.013 | (22.88) | (0.077) | | | | | |
| NCS DC 60115 | Gypsum | | | | | (5.44) | 17.95 | 0.0032 | 23.60 | (0.096) | | | | | |
| NCS DC 60116 | Siliceous Sand Ore | | | | | | | | 0.24 | | 0.00034 | | | | |
| NCS DC 60117 | Siliceous Sand Ore | | | | | | | | 0.35 | | 0.00054 | | | | |
| NCS DC 60118 | Siliceous Sand Ore | | | | | | | | 0.53 | | 0.0012 | | | | |

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| | | Ash | Volatile | Co | fsio ₂ * | CO ₂ | H ₂ O* | Cl | L.O.I | SrO | Cr ₂ O ₃ | A.U.M* | | |
|--------------|----------------|-------|----------|-------|---------------------|-----------------|-------------------|----|-------|-----|--------------------------------|---------|--|--|
| NCS DC 60119 | Graphite Ore | | | 2.91 | | 3.60 | 2.60 | | | | | | | |
| NCS DC 60120 | Graphite Ore | | | 9.91 | | 0.67 | 2.80 | | | | | | | |
| NCS DC 60121 | Graphite Ore | 20.78 | 2.72 | 76.50 | | 0.28 | 1.98 | | | | | | | |
| NCS DC 60122 | Kaolin | | | | | (0.026) | 11.72 | | 11.94 | | | | | |
| NCS DC 60123 | Kaolin | | | | | (0.06) | 14.77 | | 15.00 | | | | | |
| NCS DC 60124 | Siliceous Lime | | | | | | 2.34 | | 6.93 | | | | | |
| NCS DC 60125 | Nephelinite | | | | | | 1.78 | | | | | | | |
| NCS DC 60126 | Nephelinite | | | | 2.97 | | | | | | | | | |
| NCS DC 60127 | Pyrophyllite | | | | | | 4.15 | | 5.48 | | | | | |
| NCS DC 60128 | Pyrophyllite | | | | | | 5.17 | | 6.34 | | | | | |
| NCS DC 60129 | Brucite | | | | | 8.08 | (25.24) | | | | | | | |
| NCS DC 60130 | Brucite | | | | | 9.95 | (23.22) | | | | | | | |
| NCS DC 60131 | Talcum | | | | | 0.34 | 4.73 | | 5.14 | | | (92.78) | | |
| NCS DC 60132 | Talcum | | | | | 2.17 | 7.34 | | 9.40 | | | (83.13) | | |

*fsio₂ is free SiO₂ ; A. U. M is acid-unsolvable material.

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|--------------|----------------------|--------------------------------|------------------|--------------------------------|-----------------|------------------|------------------|-------------------|-------|-------|-------|-------------------------------|------|----|---------------------|
| | | Fe ₂ O ₃ | SiO ₂ | Al ₂ O ₃ | SO ₃ | TiO ₂ | K ₂ O | Na ₂ O | MgO | CaO | L.O.I | B ₂ O ₃ | F | | |
| NCS DC 61101 | Soff Clay | 0.86 | 55.90 | 28.57 | | 1.21 | 1.54 | 1.74 | 0.30 | 0.70 | 8.72 | | | 50 | |
| NCS DC 61102 | Potassium Feldspar | 0.19 | 66.26 | 18.63 | | 0.048 | 9.60 | 3.69 | 0.054 | 0.76 | 0.86 | | | 50 | |
| NCS DC 61103 | Na-Ca-Si Glass | 0.18 | 71.25 | 2.56 | 0.17 | 0.057 | 1.10 | 13.77 | 3.98 | 6.37 | 0.44 | | | 50 | |
| NCS DC 61104 | Boron Silicate Glass | 0.34 | 53.98 | 14.50 | | 0.19 | 0.59 | 0.096 | 4.40 | 16.54 | 0.26 | 8.87 | 0.54 | 50 | |
| NCS DC 61105 | Alumine | 1.18 | 8.17 | 85.07 | | 3.76 | 0.44 | 0.080 | 0.21 | 0.24 | 0.29 | | | 50 | |
| NCS DC 61106 | Albite Cement | 0.10 | 67.96 | 19.62 | | 0.054 | 0.098 | 11.26 | 0.015 | 0.48 | 0.36 | | | 50 | |

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | |
|---------------|-----------------------|-------------------------------|--------------------------------|--------------------------------|------------------|-------|------|-----------------|------------------|-------------------|------|-------|---------------------|----|
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | TiO ₂ | CaO | MgO | SO ₃ | K ₂ O | Na ₂ O | I.R | L.O.I | | |
| NCS DC 62101b | Portland | 20.88 | 4.48 | 2.64 | 0.32 | 62.76 | 2.05 | 2.98 | 0.66 | 0.11 | 0.75 | 3.00 | | 20 |
| NCS DC 62102a | Cement | 21.19 | 5.31 | 3.17 | 0.32 | 58.67 | 2.91 | 2.33 | 0.91 | 0.14 | | 4.50 | | 20 |
| NCS DC 62103a | Cement Clinker | 21.91 | 4.80 | 4.12 | 0.24 | 64.42 | 1.81 | 0.39 | 1.07 | 0.14 | 0.16 | 0.80 | | 20 |
| NCS DC 62104a | Cement Black Raw Meal | 14.26 | 3.70 | 2.45 | 0.24 | 38.70 | 1.61 | 0.39 | 0.70 | 0.28 | | 37.40 | | 20 |
| NCS DC 62105a | Cement raw meal | 11.77 | 3.27 | 2.09 | 0.19 | 43.94 | 1.58 | 0.10 | 0.59 | 0.10 | | 36.18 | | 20 |

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Adhered Crystallized Indissoluble | | | Unit Size (in g) |
|--------------|--------|-------------------------------|------------------|--------------------------------|--------------------------------|------------------|-------|------|-----------------|------------------|-------------------|-----------------------------------|-------|----------|---------------------|
| | | L.O.I | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | TiO ₂ | CaO | MgO | SO ₃ | K ₂ O | Na ₂ O | water | water | material | |
| NCS DC 62106 | Gypsum | 24.48 | 6.37 | 1.87 | 0.57 | 0.10 | 29.32 | 6.26 | 30.36 | 0.38 | 0.08 | micro | 11.56 | 9.01 | 20 |

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|---------------|--|-------------------------------|--------------------------------|--------------------------------|------------------|-------|-------|------------------|-------------------|-------|-----------------|------|------|----|---------------------|
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | TiO ₂ | CaO | MgO | K ₂ O | Na ₂ O | L.O.I | SO ₃ | S | I.R | | |
| NCS DC 62107 | Alumina | 4.97 | 83.90 | 3.91 | 4.19 | 0.99 | 0.46 | 0.38 | 0.11 | 0.44 | | | | 20 | |
| NCS DC 62108b | Clay | 65.00 | 15.48 | 6.16 | 0.77 | 1.47 | 1.60 | 2.40 | 1.10 | 5.55 | 0.06 | | | 20 | |
| NCS DC 62109 | Portland pozzolanic cement | 32.67 | 6.52 | 3.54 | 0.16 | 47.57 | 1.86 | 1.43 | 0.85 | 2.44 | 2.59 | | | 20 | |
| NCS DC 62110 | Portland blast-furnace slag cement | 23.48 | 6.26 | 2.39 | 0.43 | 57.4 | 3.31 | 0.59 | 0.17 | 3.68 | 2.02 | | | 20 | |
| NCS DC 62111 | Portland flay ash cement | 24.31 | 8.93 | 4.9 | 0.33 | 46.52 | 1.9 | 0.61 | 0.32 | 9.09 | 2.47 | | | 20 | |
| NCS DC 62112 | Aluminate cement | 7.95 | 51.15 | 1.91 | 2.03 | 34.56 | 0.63 | 0.13 | 0.04 | 0.68 | | 0.1 | | 20 | |
| NCS DC 62113 | Granulated blast-furnace slag for cement | 34.93 | 12.23 | 1.26 | 1.06 | 35.62 | 10.66 | 0.54 | 0.42 | 1.05 | 1.17 | 0.61 | | 20 | |
| NCS DC 62114 | Pozzolana in cement industry | 57.53 | 24.2 | 5.1 | 1.07 | 2.83 | 1.24 | 3.05 | 1.42 | 2.99 | 0.08 | | | 20 | |
| NCS DC 62115 | fly ash cement industry | 48.93 | 36.62 | 4.37 | 1.46 | 4.42 | 0.84 | 0.57 | 0.17 | 1.76 | 0.35 | | | 20 | |
| NCS DC 62116 | Composite portland cement | 16.34 | 4.01 | 2.22 | 0.22 | 57.86 | 2.28 | 0.55 | 0.11 | 13.86 | 2.3 | | | 20 | |
| NCS DC 62117 | white portland cement | 20.49 | 4.61 | 0.26 | 0.12 | 65.71 | 0.14 | 0.05 | 0.05 | 6.43 | 1.9 | | | 20 | |
| NCS DC 62118 | moderate heat portland cement | 21.73 | 4.75 | 4.12 | 0.23 | 60.99 | 4.37 | 0.43 | 0.12 | 0.81 | 2.27 | | 1.18 | 20 | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | | |
|-----------------|--|---------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------|-------|---------------------|------------------|-------------------|--------|---------------------|---------------------|-------|--|---------------------|
| | | P | S | D | D1 | R5 | Cl- | | | | | | | | | |
| NCS DC 62119 | Contet of mixed materials of ordinary portland cement | 4.5 | 5.8 | 1.2 | 0.98 | | | | | | | | | | 20 | |
| NCS DC 62120 | Contlet of mixed materials of portland blast-furnace slag cement | 0.5 | 18.5 | 7 | 3.5 | 97.5 | | | | | | | | | 20 | |
| NCS DC 62121 | Chloride content of cement raw meal | | | | | | | 0.029 | | | | | | | 20 | |
| NCS DC 62122 | Chloride content of cement | | | | | | | 0.012 | | | | | | | 20 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | TiO ₂ | CaO | MgO | SO ₃ | K ₂ O | Na ₂ O | L.O.I | F | CaF ₂ | | | |
| NCS DC 62123 | Sulphoaluminate cement clinker | 8.56 | 32.6 | 2.21 | 1.51 | 43.4 | 1.37 | 9.55 | 0.22 | 0.09 | 0.41 | | | | 20 | |
| NCS DC 62124 | Sulphoaluminate cement raw meal | 5.09 | 22.29 | 1.34 | 1.07 | 33.05 | 1.21 | 7.07 | 0.14 | 0.06 | 28.21 | | | | 20 | |
| NCS DC 62125a | Cement contain F | | | | | | | | | | | 0.18 | (0.37) | | 20 | |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (in g) | | | | | | | | |
| | | Loss | TCaCO ₃ | CaO | Fe ₂ O ₃ | F | | | | | | | | | | |
| NCS DC 62126 | Black raw meal CaCO ₃ titrimetric value | 37.46 | 70.9 | 38.89 | 2.74 | 0.15 | | 20 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | | | | | | | | | | | |
| | | Remain after through 80 ymsieve | Blaine | Density | | | | | | | | | | | | |
| NCS DC 62127 | Portland Cement Fineness and Blaine Std | | 2.03% | 354.7m ² /kg | 3.16g/cm ³ | 200 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | | |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | TiO ₂ | CaO | MgO | SO ₃ | K ₂ O | Na ₂ O | L.O.I | | | | | |
| NCS DC 62128C1 | Series of Cement for XRF Analysis | 25.49 | 6.96 | 3.31 | 0.43 | 51.18 | 3.94 | 3.24 | 1.07 | 0.42 | 3.61 | | | | 20 | |
| NCS DC 62128C2 | Series of Cement for XRF Analysis | 24.1 | 6.93 | 3.2 | 0.42 | 53.59 | 3.7 | 3.18 | 1.06 | 0.4 | 3.25 | | | | 20 | |
| NCS DC 62128C3 | Series of Cement for XRF Analysis | 23.78 | 6.56 | 3.19 | 0.41 | 54.14 | 3.47 | 3.13 | 1 | 0.39 | 3.82 | | | | 20 | |
| NCS DC 62128C4 | Series of Cement for XRF Analysis | 23.3 | 6.33 | 3.05 | 0.4 | 55.5 | 3.28 | 2.92 | 0.94 | 0.34 | 3.58 | | | | 20 | |
| NCS DC 62128C5 | Series of Cement for XRF Analysis | 23.13 | 6.1 | 3 | 0.39 | 57.08 | 3.13 | 2.82 | 0.89 | 0.29 | 3.05 | | | | 20 | |
| NCS DC 62128C6 | Series of Cement for XRF Analysis | 22.8 | 5.82 | 2.91 | 0.38 | 58.14 | 2.93 | 2.66 | 0.85 | 0.26 | 2.97 | | | | 20 | |
| NCS DC 62128C7 | Series of Cement for XRF Analysis | 22.56 | 5.55 | 2.83 | 0.37 | 59.44 | 2.66 | 2.44 | 0.79 | 0.23 | 2.86 | | | | 20 | |
| NCS DC 62128C8 | Series of Cement for XRF Analysis | 22.27 | 5.32 | 2.74 | 0.36 | 60.63 | 2.47 | 2.37 | 0.75 | 0.19 | 2.8 | | | | 20 | |
| NCS DC 62128C9 | Series of Cement for XRF Analysis | 22.02 | 5.09 | 2.69 | 0.34 | 61.5 | 2.26 | 2.16 | 0.68 | 0.17 | 2.87 | | | | 20 | |
| NCS DC 62128C10 | Series of Cement for XRF Analysis | 21.81 | 4.78 | 2.58 | 0.33 | 62.65 | 2.07 | 2.05 | 0.62 | 0.13 | 2.84 | | | | 20 | |
| NCS DC 62128C11 | Series of Cement for XRF Analysis | 21.45 | 4.46 | 2.49 | 0.32 | 64.01 | 1.85 | 1.83 | 0.57 | 0.1 | 2.65 | | | | 20 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | TFe (Fe ₂ O ₃) | Unit Size (in g) |
| | | SiO ₂ | Al ₂ O ₃ | Mg | CaO | TiO ₂ | MnO | Na ₂ O | K ₂ O | S | Li | Rb | Ba | | | |
| NCS DC 70001 | Copper Ore | 9.27 | 1.73 | 3.91 | 9.61 | 0.079 | 0.60 | 0.044 | 0.071 | 0.72 | | | | 55.58 | 50 | |
| NCS DC 70002 | Copper Ore | 53.26 | 15.18 | 1.30 | 4.95 | 0.50 | 0.12 | 3.21 | 2.71 | 0.14 | | | (0.08) | 12.25 | 50 | |
| NCS DC 70003 | Lead Ore | 43.63 | 12.88 | 1.62 | 19.51 | 0.53 | 1.40 | 1.61 | 1.42 | 0.86 | | | | 4.37 | 50 | |
| NCS DC 70004 | Lead Ore | 30.51 | 8.95 | 2.06 | 34.56 | 0.44 | 1.53 | 0.066 | 0.82 | 0.38 | | | | 3.79 | 50 | |
| NCS DC 70005 | Zinc Ore | 82.95 | 2.80 | 0.082 | 1.91 | 0.017 | 0.026 | 0.56 | 0.99 | 2.87 | | | | 3.50 | 50 | |
| NCS DC 70006 | Molybdenum Ore | 34.10 | 3.46 | 0.86 | 31.44 | 0.13 | 1.40 | 0.075 | 0.046 | 1.64 | | | | 21.34 | 50 | |
| NCS DC 70007 | Molybdenum Ore | 46.67 | 7.27 | 1.83 | 23.03 | 0.36 | 1.49 | 0.77 | 0.82 | 0.48 | | | | 14.66 | 50 | |
| NCS DC 70008 | Tungsten Ore | 13.27 | 8.24 | 1.45 | 37.73 | 0.079 | 0.97 | 0.16 | 1.94 | 3.12 | (0.02) | (0.08) | | 7.79 | 50 | |
| NCS DC 70009 | Tungsten Ore | 71.27 | 11.15 | 0.14 | 4.17 | 0.044 | 0.090 | 0.12 | 1.58 | 1.90 | (0.03) | (0.05) | | 5.60 | 50 | |

Section 4 Mineral & Geology(Powder)

| | | Cu | Pb | Zn | As | Sn | W | Mo | F | | | | | | | |
|--------------|----------------|----------------------------|------|-------|------|------|-------|-------|-------|------|-------|-------|----------------|--------|------|--|
| NCS DC 70001 | Copper Ore | 1.15 | | 0.059 | | | | | 0.079 | | | | | | | |
| NCS DC 70002 | Copper Ore | 0.19 | | 0.013 | | | | | 0.080 | | | | | | | |
| NCS DC 70003 | Lead Ore | 0.20 | 4.17 | 0.062 | | | | | 0.27 | | | | | | | |
| NCS DC 70004 | Lead Ore | 0.035 | 0.61 | 0.092 | | | | | 0.23 | | | | | | | |
| NCS DC 70005 | Zinc Ore | 0.71 | 0.25 | 2.75 | | | | | 1.20 | | | | | | | |
| NCS DC 70006 | Molybdenum Ore | | | | | | 0.36 | 1.51 | 4.08 | | | | | | | |
| NCS DC 70007 | Molybdenum Ore | | | 0.012 | | | 0.10 | 0.11 | 1.33 | | | | | | | |
| NCS DC 70008 | Tungsten Ore | 0.079 | 0.26 | 0.29 | 0.18 | 0.14 | 0.015 | | 9.91 | | | | | | | |
| NCS DC 70009 | Tungsten Ore | 0.096 | | 0.103 | | 0.17 | 0.22 | 0.098 | 4.84 | | | | | | | |
| Number | | Chemical Composition(µg/g) | | | | | | | | | | | | | | |
| Name | Ag | As | Cu | Ga | Ge | Li | Pb | Sc | Zn | Cd | Sb | Ce | Dy | Eu | | |
| NCS DC 70001 | Copper Ore | 3.9 | 4.2 | | 22.6 | 0.89 | (9) | 9.1 | 1.8 | | 0.42 | 0.36 | 13.2 | 1.1 | 0.28 | |
| NCS DC 70002 | Copper Ore | 0.70 | 1.5 | | 22.6 | 0.93 | (15) | 13.0 | 5.4 | | 0.14 | 0.23 | 72.6 | 2.4 | 1.3 | |
| NCS DC 70003 | Lead Ore | 14.7 | 85.1 | | 16.7 | 0.90 | (19) | | 7.5 | | 3.2 | 39.3 | 78.3 | 3.0 | 1.2 | |
| NCS DC 70004 | Lead Ore | 5.6 | 43.2 | | 11.7 | 0.93 | (18) | | 8.1 | | 2.6 | 12.0 | 66.8 | 3.1 | 0.82 | |
| NCS DC 70005 | Zinc Ore | 13.5 | 12.4 | | 8.0 | 1.4 | (86) | | 0.33 | | 29.3 | 1.1 | 2.3 | 0.47 | 0.06 | |
| NCS DC 70006 | Molybdenum Ore | 0.09 | 1.6 | 93.6 | 25.1 | 19.0 | (3.2) | 18.7 | 3.4 | 65.5 | 0.12 | 1.2 | 20.8 | 1.8 | 0.59 | |
| NCS DC 70007 | Molybdenum Ore | 0.12 | 1.0 | 48.6 | 23.1 | 12.4 | (13) | 26.1 | 8.4 | | 0.09 | 0.26 | 60.3 | 5.8 | 1.5 | |
| NCS DC 70008 | Tungsten Ore | 8.3 | | | 17.8 | 2.5 | | | 1.8 | | 26.1 | 5.1 | 10.0 | 0.46 | 0.15 | |
| NCS DC 70009 | Tungsten Ore | 1.8 | 69.9 | | 16.5 | 11.2 | | 81.2 | 5.4 | | 0.94 | 3.1 | 60.3 | 20.7 | 0.17 | |
| | | Chemical Composition(µg/g) | | | | | | | | | | | | | | |
| | Gd | Ho | La | Lu | Nd | Sm | Tb | Tm | Yb | Er | Pr | Y | Co | | | |
| NCS DC 70001 | Copper Ore | 1.1 | 0.26 | 7.5 | 0.16 | 4.7 | 1.0 | 0.21 | 0.11 | 0.89 | 0.78 | 1.4 | 7.3 | 76.0 | | |
| NCS DC 70002 | Copper Ore | 3.6 | 0.48 | 40.3 | 0.20 | 29.4 | 5.1 | 0.48 | 0.18 | 1.2 | 1.3 | 8.1 | 11.8 | 16.9 | | |
| NCS DC 70003 | Lead Ore | 3.7 | 0.61 | 40.5 | 0.24 | 28.2 | 5.1 | 0.58 | 0.23 | 1.5 | 1.5 | 8.1 | 15.4 | 14.7 | | |
| NCS DC 70004 | Lead Ore | 3.6 | 0.65 | 31.2 | 0.25 | 23.4 | 4.6 | 0.60 | 0.26 | 1.7 | 1.6 | 6.2 | 16.2 | 15.7 | | |
| NCS DC 70005 | Zinc Ore | 0.31 | 0.13 | 1.3 | 0.08 | 0.92 | 0.36 | 0.10 | 0.05 | 0.42 | 0.28 | 0.30 | 4.5 | 8.7 | | |
| NCS DC 70006 | Molybdenum Ore | 1.9 | 0.36 | 7.1 | 0.16 | 11.3 | 2.1 | 0.34 | 0.14 | 1.0 | 1.0 | 3.0 | 11.4 | 11.8 | | |
| NCS DC 70007 | Molybdenum Ore | 5.8 | 1.2 | 37.4 | 0.41 | 29.8 | 6.4 | 0.98 | 0.44 | 2.8 | 3.2 | 7.4 | 34.2 | 13.5 | | |
| NCS DC 70008 | Tungsten Ore | 0.64 | 0.11 | 5.0 | 0.06 | 4.0 | 0.79 | 0.15 | 0.04 | 0.28 | 0.23 | 1.1 | 2.8 | 2.7 | | |
| NCS DC 70009 | Tungsten Ore | 14.8 | 4.5 | 23.7 | 2.4 | 32.9 | 12.5 | 3.3 | 2.2 | 14.9 | 13.1 | 7.9 | 128 | 3.7 | | |
| | | Chemical Composition(µg/g) | | | | | | | | | | | | | | |
| | Ni | Bi | Sn | W | Mo | In | Se | Te | Ti | Th | Cr | Rb | R _E | | | |
| NCS DC 70001 | Copper Ore | 9.6 | 1.5 | 11.1 | 4.1 | 1.4 | 1.4 | 5.1 | 0.62 | 0.06 | 0.90 | (7) | | | | |
| NCS DC 70002 | Copper Ore | 5.6 | 0.43 | 3.8 | 3.9 | 2.4 | 0.25 | 0.89 | 0.13 | 0.36 | 8.8 | (10) | (94) | | | |
| NCS DC 70003 | Lead Ore | 27.7 | 15.6 | 3.0 | 17.6 | 1.6 | 0.12 | 1.7 | 3.9 | 0.43 | 10.2 | (29) | (55) | | | |
| NCS DC 70004 | Lead Ore | 34.5 | 12.5 | 2.9 | 30.6 | 1.3 | 0.09 | 0.81 | 1.2 | 1.0 | 10.5 | (41) | (74) | | | |
| NCS DC 70005 | Zinc Ore | 5.5 | 56.4 | 6.1 | 3.4 | 2.8 | 0.23 | 2.3 | 0.17 | 0.49 | (1.1) | (62) | (73) | | | |
| NCS DC 70006 | Molybdenum Ore | 17.8 | 2.2 | 86.7 | | | 2.9 | 2.1 | 0.40 | 0.06 | 2.3 | (24) | | (0.35) | | |
| NCS DC 70007 | Molybdenum Ore | 20.9 | 1.0 | 33.2 | | | 1.3 | 0.27 | 0.14 | 0.21 | 9.7 | (35) | | (0.12) | | |
| NCS DC 70008 | Tungsten Ore | 4.1 | 110 | | | 4.2 | 8.7 | 0.39 | 0.66 | 5.0 | 2.2 | (6.5) | | (0.12) | | |
| NCS DC 70009 | Tungsten Ore | 2.8 | 680 | | | | 1.3 | 0.96 | 2.9 | 1.8 | 28.3 | (30) | | (0.08) | | |
| | | Chemical Composition(µg/g) | | | | | | | | | | | | | | |
| | Cs | | | | | | | | | | | | | | | |
| NCS DC 70002 | Copper Ore | (10) | | | | | | | | | | | | | | |
| NCS DC 70003 | Lead Ore | (6) | | | | | | | | | | | | | | |
| NCS DC 70004 | Lead Ore | (2.3) | | | | | | | | | | | | | | |
| NCS DC 70008 | Tungsten Ore | (36) | | | | | | | | | | | | | | |
| NCS DC 70009 | Tungsten Ore | (41) | | | | | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
|----------------------------|--------------|-------------------------------|---------|---------------------------------|-------------------|-------------------|-------|--------------------|----------------------------------|-------------------------------------|-------------------|-------|--------------------|-------------------|---------------------|
| | | Sb | S | Cu | Pb | Ag | As | Ga | Li | Cd | Ce | Dy | Eu | Ni | |
| NCS DC 70013 | Antimony Ore | 1.81 | 1.02 | 0.012 | 0.037 | | | | | | | | | | 50 |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
| | | Ag | As | Cu | Ga | Li | Cd | Ce | Dy | Eu | Bi | Ni | Co | Sn | |
| NCS DC 70013 | Antimony Ore | 7.3 | 25.3 | 51.3 | 9.1 | 22.8 | 2.6 | 59.7 | 3.7 | 0.88 | (0.26) | 3.2 | 2.2 | 3.0 | |
| | | Nb | | | | | | | | | | | | | |
| | | 5.4 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
| | | Ag | As | Ba | Be | Bi | Br | Cd | Cl | Co | Cr | Cs | Cu | F | |
| NCS DC 70301 | Rock | 0.020 | 0.50 | 9.7 | 0.08 | 0.015 | (0.2) | 0.10 | 34 | 0.45 | 4.8 | 0.07 | 2.2 | 76 | 50 |
| NCS DC 70302 | Rock | 0.021 | 0.29 | 11.6 | 0.12 | 0.020 | (0.3) | 0.09 | 34 | 0.5 | 5.6 | 0.09 | 2.2 | 91 | 50 |
| NCS DC 70303 | Rock | 0.016 | 0.78 | 8.0 | 0.09 | 0.011 | 0.4 | 0.59 | 50 | (0.5) | 3.8 | 0.13 | 2.2 | 60 | 50 |
| NCS DC 70304 | Rock | (0.013) | 0.17 | 4.9 | 0.06 | 0.016 | (0.2) | 0.05 | 28 | 2.6 | 54 | 0.10 | 2.1 | 71 | 50 |
| NCS DC 70305 | Rock | (0.016) | 0.96 | 0.52% | 0.08 | 0.025 | 6.1 | 0.02 | 343 | 0.52 | 3.4 | 0.13 | 2.8 | 459 | 50 |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
| | | Ga | Ge | Hf | Hg | Li | Mn | Mo | Nb | Ni | P | Pb | Rb | Sc | |
| NCS DC 70301 | Rock | 0.3 | 0.11 | 1.4 | 0.004 | 2.9 | 70 | 0.35 | 0.3 | 5.8 | 35 | 2.9 | 1.2 | 0.40 | |
| NCS DC 70302 | Rock | 0.33 | 0.12 | 2.1 | 0.015 | 3.1 | 70 | 0.26 | 0.46 | 4.3 | 62 | 3.9 | 1.6 | 0.5 | |
| NCS DC 70303 | Rock | 0.3 | 0.10 | 12.4 | 0.007 | 2.7 | 232 | 0.18 | 0.34 | (4.1) | 99 | 1.4 | 0.6 | 0.50 | |
| NCS DC 70304 | Rock | 0.3 | 0.12 | 0.10 | 0.003 | (3.0) | 31 | 0.14 | 0.3 | 50.5 | 22 | 1.7 | 1.6 | 0.40 | |
| NCS DC 70305 | Rock | 0.31 | 0.12 | 0.13 | 0.006 | 3.1 | 93 | 0.19 | 0.4 | 2.9 | 155 | 2.9 | 2.6 | 0.40 | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
| | | Sb | Se | Sr | Ta | Te | Tn | Ti | Tl | U | V | W | Zn | Zr | |
| NCS DC 70301 | Rock | 0.08 | 0.014 | 227 | (0.06) | 0.008 | 0.25 | 66 | 0.022 | 0.59 | 4.8 | 0.17 | 8.1 | 53.7 | |
| NCS DC 70302 | Rock | 0.09 | 0.015 | 191 | 0.05 | 0.008 | 0.25 | 132 | 0.023 | 0.39 | 5.0 | 0.18 | 9.5 | 76.8 | |
| NCS DC 70303 | Rock | 0.15 | 0.007 | 87 | 0.04 | 0.009 | 0.54 | 42 | 0.04 | 0.66 | 4.0 | 0.13 | 6.4 | 443 | |
| NCS DC 70304 | Rock | 0.03 | (0.016) | 173 | 0.03 | 0.009 | 0.24 | 42 | (0.02) | 0.17 | 3.6 | 0.13 | 3.3 | 6.3 | |
| NCS DC 70305 | Rock | 0.06 | 0.013 | 158 | 0.06 | 0.008 | 0.45 | 78 | 0.04 | 0.70 | 5.1 | 0.17 | 3.6 | 4.9 | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
| | | B | I | In | Sn | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | |
| NCS DC 70301 | Rock | (1.9) | (0.5) | (0.03) | (0.7) | 0.9 | 1.4 | 0.22 | 0.66 | 0.15 | 0.037 | 0.13 | 0.022 | 0.12 | |
| NCS DC 70302 | Rock | (2.2) | (0.3) | (0.02) | (0.6) | 1.2 | 1.9 | 0.24 | 0.86 | 0.19 | 0.052 | 0.16 | 0.031 | 0.15 | |
| NCS DC 70303 | Rock | (1.3) | (0.5) | (0.03) | (0.7) | 2.6 | 2.2 | 0.49 | 1.80 | 0.38 | 0.078 | 0.39 | 0.085 | 0.51 | |
| NCS DC 70304 | Rock | (1.47) | (0.3) | (0.02) | (0.5) | 0.78 | 1.3 | 0.15 | 0.61 | 0.11 | 0.025 | 0.10 | 0.020 | 0.09 | |
| NCS DC 70305 | Rock | (6.4) | (0.2) | (0.02) | (0.7) | 1.3 | 2.5 | 0.28 | 1.10 | 0.26 | 0.14 | 0.22 | 0.032 | 0.17 | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
| | | Ho | Er | Tm | Yb | Lu | Y | SiO ₂ * | Al ₂ O ₂ * | Fe ₂ O ₃ (T)* | MgO* | CaO* | Na ₂ O* | K ₂ O* | |
| NCS DC 70301 | Rock | 0.034 | 0.09 | 0.018 | 0.11 | 0.019 | 1.2 | 0.55 | 0.17 | 0.193 | 6.76 | 47.89 | 0.022 | 0.043 | |
| NCS DC 70302 | Rock | 0.034 | 0.12 | 0.020 | 0.13 | 0.022 | 1.4 | 0.72 | 0.22 | 0.205 | 11.62 | 41.95 | 0.029 | 0.052 | |
| NCS DC 70303 | Rock | 0.13 | 0.50 | 0.092 | 0.68 | 0.13 | 6.1 | 0.30 | 0.15 | 0.070 | 0.24 | 55.49 | 0.014 | 0.012 | |
| NCS DC 70304 | Rock | 0.022 | 0.06 | 0.021 | 0.063 | 0.010 | 0.7 | 1.08 | 0.18 | 0.222 | 1.42 | 54.08 | 0.015 | 0.043 | |
| NCS DC 70305 | Rock | 0.034 | 0.10 | 0.017 | 0.10 | 0.015 | 1.1 | 1.15 | 0.29 | 0.17 | 20.14 | 30.93 | 0.036 | 0.16 | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
| | | TiO ₂ * | MnO* | P ₂ O ₅ * | SO ₃ * | H ₂ O* | FeO* | CO ₂ * | LOI* | C(org)* | H ₂ O* | | | | |
| NCS DC 70301 | Rock | 0.011 | 0.009 | 0.008 | 0.017 | 0.37 | 0.15 | 44.39 | 43.92 | (0.03) | (0.20) | | | | |
| NCS DC 70302 | Rock | 0.022 | 0.009 | 0.014 | 0.013 | 0.31 | 0.16 | 44.89 | 44.75 | (0.03) | (0.20) | | | | |
| NCS DC 70303 | Rock | 0.007 | 0.030 | 0.023 | 0.011 | 0.23 | 0.007 | 43.10 | 43.30 | | (0.06) | | | | |
| NCS DC 70304 | Rock | 0.007 | 0.004 | 0.005 | 0.014 | 0.14 | 0.09 | 43.13 | 42.64 | (0.01) | (0.05) | | | | |
| NCS DC 70305 | Rock | 0.013 | 0.012 | 0.035 | 0.33 | 0.39 | 0.07 | 45.58 | 45.73 | (0.07) | (0.07) | | | | |
| Value with * is in percent | | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
| | | Ag | As | Ba | Be | Bi | Br | Cd | Cl | Co | Cr | Cs | Cu | F | |
| NCS DC 70306 | Rock | 0.019 | 3.7 | 1.33% | 0.3 | 0.058 | (0.5) | 0.04 | 77 | 1.9 | 8.1 | 0.75 | 8.3 | 835 | 50 |
| NCS DC 70307 | Rock | 0.029 | 1.3 | 18.8 | 0.15 | 0.022 | 0.4 | 0.39 | 60 | 0.34 | 10.3 | 0.14 | 2.9 | 92 | 50 |
| NCS DC 70308 | Rock | 0.035 | 5.5 | 10.6 | 0.15 | 0.012 | 0.9 | 0.39 | 123 | 0.5 | 9.7 | 0.10 | 2.9 | 179 | 50 |
| NCS DC 70309 | Rock | 0.045 | 2.2 | 101 | 0.56 | 0.050 | 0.5 | 0.15 | 96 | 7.0 | 34.0 | 1.98 | 18.7 | 454 | 50 |

Section 4 Mineral & Geology(Powder)

| | | Ga | Ge | Hf | Hg | Li | Mn | Mo | Nb | Ni | P | Pb | Rb | Sc | |
|----------------------------|------|----------------------------|--------|---------------------------------|-------------------|-------------------|-------|--------------------|----------------------------------|-------------------------------------|-------------------|-------|--------------------|---------------------|----|
| NCS DC 70306 | Rock | 1.6 | 0.16 | 0.3 | (0.005) | 5.1 | 689 | 0.60 | 1.0 | 6.6 | 527 | 5.6 | 10.6 | 1.1 | |
| NCS DC 70307 | Rock | 0.4 | (0.07) | 88 | 0.017 | 3.3 | 95 | 0.35 | 0.9 | 4.8 | 40 | 4.0 | 1.2 | 1.9 | |
| NCS DC 70308 | Rock | 0.4 | 0.11 | 3.1 | 0.031 | 3.0 | 209 | 0.80 | 0.4 | 5.6 | 40 | 7.8 | 1.1 | 0.5 | |
| NCS DC 70309 | Rock | 3.7 | 0.28 | 1.2 | 0.026 | 11.8 | 318 | 0.60 | 6.5 | 19.2 | 410 | 5.9 | 19.2 | 3.5 | |
| | | Sb | Se | Sr | Ta | Te | Th | Ti | Tl | U | V | W | Zn | Zr | |
| NCS DC 70306 | Rock | 0.09 | 0.018 | 477 | 0.11 | 0.014 | 1.3 | 288 | 0.07 | 0.94 | 8.8 | 0.19 | 13.7 | 9.2 | |
| NCS DC 70307 | Rock | 0.17 | 0.087 | 278 | 0.11 | 0.012 | 2.6 | 174 | 0.03 | 3.4 | 6.2 | 0.18 | 8.6 | 0.28% | |
| NCS DC 70308 | Rock | 0.59 | 0.10 | 85 | 0.030 | 0.016 | 0.29 | 54 | 0.02 | 1.13 | 7.5 | 0.13 | 35.7 | 113 | |
| NCS DC 70309 | Rock | 0.27 | 0.24 | 688 | 0.45 | 0.023 | 1.9 | 0.258% | (0.06) | 1.04 | 38.5 | 0.25 | 24.5 | 47.0 | |
| | | B | I | In | Sn | La | Ce | Pr | Nd | Sm | Eu | Gd | Tb | Dy | |
| NCS DC 70306 | Rock | (3.7) | (0.7) | (0.03) | (0.6) | 4.1 | 8.1 | 0.94 | 3.42 | 0.74 | 0.30 | 0.69 | 0.11 | 0.52 | |
| NCS DC 70307 | Rock | (3.1) | (0.5) | (0.03) | (0.5) | 3.5 | 6.3 | 0.74 | 2.66 | 0.51 | 0.078 | 0.56 | 0.13 | 1.01 | |
| NCS DC 70308 | Rock | (2.3) | (0.2) | (0.02) | (0.9) | 0.9 | 1.5 | 0.21 | 0.89 | 0.21 | 0.049 | 0.19 | 0.035 | 0.20 | |
| NCS DC 70309 | Rock | (14.8) | (0.3) | (0.05) | (1.1) | 12.5 | 26.0 | 2.84 | 11.0 | 2.11 | 0.53 | 1.81 | 0.29 | 1.39 | |
| | | Ho | Er | Tm | Yb | Lu | Y | SiO ₂ * | Al ₂ O ₃ * | Fe ₂ O ₃ (T)* | MgO* | CaO* | Na ₂ O* | K ₂ O* | |
| NCS DC 70306 | Rock | 0.11 | 0.31 | 0.052 | 0.3 | 0.047 | 3.1 | 6.27 | 1.13 | 0.73 | 1.45 | 48.16 | 0.05 | 0.40 | |
| NCS DC 70307 | Rock | 0.27 | 1.20 | 0.27 | 2.62 | 0.53 | 8.9 | 1.28 | 0.29 | 0.155 | 0.75 | 53.83 | 0.020 | 0.035 | |
| NCS DC 70308 | Rock | 0.046 | 0.15 | 0.030 | 0.19 | 0.035 | 1.8 | 1.17 | 0.18 | 0.448 | 14.96 | 38.08 | 0.030 | 0.026 | |
| NCS DC 70309 | Rock | 0.25 | 0.75 | 0.099 | 0.60 | 0.091 | 8.0 | 11.07 | 3.03 | 1.77 | 1.36 | 43.76 | 0.17 | 0.88 | |
| | | TiO ₂ * | MnO* | P ₂ O ₅ * | SO ₃ * | h ₂ O* | FeO* | CO ₂ * | LOI* | C(org)* | H ₂ O* | | | | |
| NCS DC 70306 | Rock | 0.048 | 0.089 | 0.121 | 0.98 | 0.52 | 0.49 | 38.69 | 39.07 | (0.17) | (0.15) | | | | |
| NCS DC 70307 | Rock | 0.029 | 0.011 | 0.009 | 0.058 | 0.39 | 0.06 | 42.58 | 42.75 | (0.12) | (0.14) | | | | |
| NCS DC 70308 | Rock | 0.009 | 0.027 | 0.009 | 0.041 | 0.42 | 0.05 | 45.62 | 44.61 | (0.04) | (0.17) | | | | |
| NCS DC 70309 | Rock | 0.430 | 0.041 | 0.094 | 1.18 | 0.97 | 0.79 | 35.52 | 36.57 | (0.76) | (0.37) | | | | |
| Value with * is in percent | | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | Unit Size (in g) | |
| | | Ag | As | Au* | B | Ba | Be | Bi | Br | Cd | Cl | Co | Cr | | Cs |
| NCS DC 70311 | Rock | 6.73 | 512 | 32.6 | 43.3 | 297 | 2.32 | 89.8 | 2.5 | 3.76 | 87 | 45.2 | 41.3 | 14.5 | 60 |
| NCS DC 70312 | Rock | 5 | 18.9 | 1.2 | 59.0 | 404 | 2.52 | 0.46 | 1.2 | 0.18 | 114 | 16.7 | 68.2 | 10.4 | 60 |
| NCS DC 70313 | Rock | 9 | 22.0 | 1.4 | 77.0 | 508 | 2.34 | 0.50 | 1.0 | 0.54 | 63 | 17.9 | 93.8 | 11.9 | 60 |
| NCS DC 70314 | Rock | 0.06 | 19.0 | 0.9 | 58.9 | 341 | 2.13 | 0.34 | 1.4 | 0.15 | 120 | 7.9 | 36.2 | 8.0 | 60 |
| NCS DC 70315 | Rock | 0.10 | 22.5 | 1.6 | 59.5 | 384 | 2.13 | 0.46 | 1.5 | 0.33 | 96.7 | 9.2 | 37.5 | 7.9 | 60 |
| | | Cu | F | Ga | Ge | Hf | Hg | Li | Mn | Mo | Nb | Ni | P | Pb | |
| NCS DC 70311 | Rock | 0.50% | 632 | 12.4 | 1.32 | 4.0 | 0.07 | 32.7 | 0.137% | 15.5 | 8.6 | 46.2 | 804 | 731 | |
| NCS DC 70312 | Rock | 27.3 | 659 | 19.0 | 1.44 | 6.0 | 0.022 | 48.5 | 987 | 0.75 | 14.6 | 35.0 | 561 | 30.9 | |
| NCS DC 70313 | Rock | 27.1 | 622 | 17.8 | 1.34 | 6.5 | 0.033 | 53.9 | 876 | 0.60 | 15.9 | 51.9 | 613 | 61.9 | |
| NCS DC 70314 | Rock | 13.3 | 444 | 13.6 | 1.30 | 6.5 | 0.074 | 40.1 | 517 | 0.70 | 15.2 | 17.2 | 441 | 23.0 | |
| NCS DC 70315 | Rock | 16.6 | 539 | 14.1 | 1.09 | 6.0 | 0.026 | 27.9 | 567 | 0.83 | 15.6 | 20.1 | 501 | 31.7 | |
| | | Rb | Sc | Sb | Se | Sn | Sr | Ta | Te | Tn | Tl(%) | Tl | U | V | |
| NCS DC 70311 | Rock | 90.0 | 8.7 | 13.8 | 2.8 | 16.6 | 324 | 0.8 | 0.86 | 8.6 | 0.248 | 2.3 | 6.1 | 80.3 | |
| NCS DC 70312 | Rock | 119 | 11.8 | 1.44 | 0.10 | 2.8 | 83.8 | 1.2 | 0.045 | 12.9 | 0.375 | 0.60 | 2.8 | 102 | |
| NCS DC 70313 | Rock | 115 | 12.0 | 1.91 | 0.16 | 14.9 | 59.3 | 1.2 | 0.5 | 12.1 | 0.439 | 0.64 | 2.6 | 101 | |
| NCS DC 70314 | Rock | 104 | 6.96 | 1.08 | 0.11 | 3.1 | 117.5 | 1.3 | (0.03) | 12.7 | 0.276 | 0.59 | 2.9 | 56.1 | |
| NCS DC 70315 | Rock | 104 | 7.9 | 0.82 | 0.12 | 3.3 | 132 | 1.3 | (0.03) | 12.3 | 0.290 | 0.62 | 2.5 | 57.4 | |

Section 4 Mineral & Geology(Powder)

| | W | Zn | Zr | I | In | Pd* | Pt* | S | La | Ce | Pr | Nd | Sm | | |
|----------------------------|------|----------------------------|--------------------|-------------------|-------------------|-------|---------------------------------|-------|--------|------|--------------------|----------------------------------|-------------------------------------|-----------|--------|
| NCS DC 70311 Rock | 38.7 | 797 | 132 | (1.7) | (0.6) | (0.4) | (0.3) | (510) | 26.6 | 55.6 | 6.01 | 23.2 | 4.85 | | |
| NCS DC 70312 Rock | 1.9 | 82.3 | 210 | (0.6) | (0.06) | (0.5) | (0.4) | (98) | 39.0 | 76.1 | 8.42 | 31 | 5.95 | | |
| NCS DC 70313 Rock | 2.6 | 176 | 222 | (0.8) | (0.06) | (0.6) | (0.4) | (123) | 38.8 | 74 | 8.33 | 31.1 | 5.99 | | |
| NCS DC 70314 Rock | 2.4 | 51.8 | 220 | (0.7) | (0.04) | (0.5) | (0.4) | (135) | 37.9 | 70.6 | 7.86 | 29 | 5.55 | | |
| NCS DC 70315 Rock | 2.4 | 91.1 | 206 | (0.5) | (0.05) | (0.4) | (0.3) | (177) | 37.0 | 71.3 | 8.10 | 29.3 | 5.61 | | |
| | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yo | Lu | Y | SiO ₂ * | Al ₂ O ₃ * | Fe ₂ O ₃ (T)* | | |
| NCS DC 70311 Rock | 1.17 | 4.88 | 0.77 | 4.40 | 0.86 | 2.64 | 0.39 | 2.43 | 0.35 | 24.3 | 38.05 | 9.67 | 10.34 | | |
| NCS DC 70312 Rock | 1.20 | 5.35 | 0.83 | 4.71 | 0.94 | 2.79 | 0.43 | 2.69 | 0.41 | 24.6 | 63.07 | 14.18 | 5.84 | | |
| NCS DC 70313 Rock | 1.21 | 5.40 | 0.83 | 4.73 | 0.95 | 2.81 | 0.43 | 2.73 | 0.41 | 24.4 | 69.70 | 13.19 | 5.85 | | |
| NCS DC 70314 Rock | 0.96 | 4.88 | 0.75 | 4.24 | 0.86 | 2.56 | 0.39 | 2.53 | 0.38 | 23.3 | 76.43 | 10.6 | 3.29 | | |
| NCS DC 70315 Rock | 1.04 | 5.15 | 0.78 | 4.40 | 0.87 | 2.60 | 0.40 | 2.55 | 0.38 | 23.7 | 66.50 | 10.17 | 3.7 | | |
| | MgO* | CaO* | Na ₂ O* | K ₂ O* | TO ₂ * | MnO* | P ₂ O ₅ * | | | | | | | | |
| NCS DC 70311 Rock | 1.94 | 16.4 | 0.59 | 1.39 | 0.416 | 0.174 | 0.182 | | | | | | | | |
| NCS DC 70312 Rock | 1.55 | 3.69 | 1.11 | 2.51 | 0.650 | 0.127 | 0.13 | | | | | | | | |
| NCS DC 70313 Rock | 1.58 | 0.39 | 1.23 | 2.56 | 0.725 | 0.113 | 0.14 | | | | | | | | |
| NCS DC 70314 Rock | 0.72 | 1.27 | 1.47 | 2.30 | 0.469 | 0.067 | 0.101 | | | | | | | | |
| NCS DC 70315 Rock | 1.14 | 6.50 | 1.17 | 2.26 | 0.491 | 0.074 | 0.115 | | | | | | | | |
| Value with * is in percent | | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | Unit Size | |
| | | Ag | As | Au* | B | Ba | Be | Bi | Br | Cd | Cl | Co | Cr | Cs | (in g) |
| NCS DC 70316 Rock | | 0.07 | 13.7 | 1.8 | 56.1 | 476 | 2.43 | 0.30 | 1.9 | 0.10 | 56.7 | 14.7 | 139 | 13.7 | 60 |
| NCS DC 70317 Rock | | 0.32 | 37.3 | 6.2 | 30.0 | 369 | 2.67 | 1.22 | 0.9 | 0.57 | 69.1 | 9.8 | 39.8 | 17.2 | 60 |
| NCS DC 70318 Rock | | 0.06 | 18.0 | 1.4 | 30.6 | 437 | 3.32 | 0.49 | 0.9 | 0.10 | 207 | 6.7 | 47.6 | 20.2 | 60 |
| NCS DC 70319 Rock | | 0.21 | 19.6 | 1.2 | 66.2 | 470 | 2.31 | 0.80 | 1.4 | 0.19 | 244 | 7.6 | 22.6 | 15.0 | 60 |
| NCS DC 70320 Rock | | 0.14 | 12.3 | 1.1 | 41.5 | 483 | 2.56 | 0.70 | 1.1 | 0.17 | 152 | 7.3 | 24.4 | 13.0 | 60 |
| | | Cu | F | Ga | Ge | Hf | Hg | Li | Mn | Mo | Nb | Ni | P | Pb | |
| NCS DC 70316 Rock | | 23.1 | 440 | 18.5 | 1.22 | 8.8 | 0.043 | 41.9 | 668 | 0.83 | 15.3 | 75.3 | 571 | 24.0 | |
| NCS DC 70317 Rock | | 247 | 424 | 14.4 | 1.19 | 5.7 | 0.034 | 29.7 | 614 | 6.6 | 12.0 | 20.8 | 389 | 127 | |
| NCS DC 70318 Rock | | 16.2 | 456 | 16.3 | 1.33 | 6.7 | 0.030 | 36.6 | 422 | 0.59 | 14.7 | 16.9 | 420 | 35.8 | |
| NCS DC 70319 Rock | | 151 | 459 | 15.8 | 1.13 | 9.5 | 0.028 | 26.1 | 527 | 7.0 | 16.1 | 9.5 | 484 | 46.8 | |
| NCS DC 70320 Rock | | 49.0 | 505 | 16.9 | 1.12 | 5.5 | 0.012 | 25.6 | 451 | 2.7 | 10.5 | 11.1 | 564 | 45.4 | |
| | | Pb | Sc | Sb | Se | Sn | Sr | Ta | Te | Th | Ti(%) | Tl | U | V | |
| NCS DC 70316 Rock | | 117 | 11.7 | 1.10 | 0.16 | 3.2 | 113 | 1.3 | 0.05 | 15.5 | 0.451 | 0.67 | 2.5 | 87.7 | |
| NCS DC 70317 Rock | | 141 | 6.5 | 4.44 | 0.19 | 3.3 | 185 | 1.1 | 0.21 | 17.5 | 0.217 | 0.96 | 3.4 | 45.7 | |
| NCS DC 70318 Rock | | 180 | 7.3 | 0.84 | 0.05 | 3.8 | 165 | 1.8 | (0.03) | 25.1 | 0.253 | 1.0 | 4.8 | 52.5 | |
| NCS DC 70319 Rock | | 154 | 6.2 | 2.70 | 0.18 | 2.7 | 256 | 1.8 | 0.10 | 25.5 | 0.344 | 1.1 | 4.8 | 74.7 | |
| NCS DC 70320 Rock | | 136 | 6.0 | 1.27 | 0.11 | 2.0 | 404 | 1.2 | 0.07 | 16.7 | 0.274 | 0.91 | 3.6 | 59.4 | |
| | W | Zn | Zr | I | In | Pd* | Pt* | S | La | Ce | Pr | Nd | Sm | | |
| NCS DC 70316 Rock | 2.3 | 80.9 | 299 | (0.7) | (0.06) | (0.6) | (0.4) | (157) | 48.2 | 93.4 | 10.9 | 41.9 | 8.11 | | |
| NCS DC 70317 Rock | 9.2 | 116 | 188 | (0.4) | (0.07) | (0.3) | (0.4) | (117) | 37.9 | 72.0 | 7.89 | 29.0 | 5.39 | | |
| NCS DC 70318 Rock | 4.1 | 54.1 | 225 | (0.3) | (0.04) | (0.4) | (0.3) | (48) | 47.8 | 89.6 | 9.78 | 35.8 | 6.62 | | |
| NCS DC 70319 Rock | 9.3 | 62.9 | 299 | (0.3) | (0.04) | (0.3) | (0.3) | (400) | 42.6 | 78.1 | 8.57 | 30.6 | 5.42 | | |
| NCS DC 70320 Rock | 4.2 | 61.1 | 184 | (0.3) | (0.04) | (0.3) | (0.3) | (183) | 32.5 | 60.5 | 6.94 | 25.7 | 4.49 | | |
| | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yo | Lu | Y | SiO ₂ * | Al ₂ O ₃ * | Fe ₂ O ₃ (T)* | | |
| NCS DC 70316 Rock | 1.58 | 7.11 | 1.08 | 6.10 | 1.20 | 3.54 | 0.54 | 3.47 | 0.52 | 32.7 | 68.50 | 14.42 | 4.81 | | |
| NCS DC 70317 Rock | 0.96 | 4.90 | 0.76 | 4.24 | 0.83 | 2.47 | 0.38 | 2.46 | 0.36 | 23.0 | 64.22 | 10.84 | 3.07 | | |
| NCS DC 70318 Rock | 1.07 | 5.83 | 0.91 | 4.92 | 0.97 | 2.90 | 0.46 | 2.83 | 0.44 | 26.5 | 73.37 | 12.73 | 3.19 | | |
| NCS DC 70319 Rock | 0.97 | 4.57 | 0.70 | 3.91 | 0.79 | 2.39 | 0.38 | 2.55 | 0.39 | 21.6 | 71.23 | 13.22 | 4.11 | | |
| NCS DC 70320 Rock | 0.96 | 3.74 | 0.54 | 2.94 | 0.58 | 1.64 | 0.25 | 1.63 | 0.25 | 15.3 | 70.36 | 13.95 | 3.20 | | |

Section 4 Mineral & Geology(Powder)

| | MgO* | CaO* | Na ₂ O* | K ₂ O* | TiO ₂ * | MnO* | P ₂ O ₅ * | | | | | | | | |
|----------------------------|------|--------------------------------|--------------------------------|--------------------------------|--------------------|--------------------|---------------------------------|---------------------------------|-------------------------------|-------|-------------------|--------------------|----------------------------------|-------------------------------------|----|
| NCS DC 70316 Rock | 1.74 | 0.53 | 1.66 | 2.66 | 0.753 | 0.087 | 0.134 | | | | | | | | |
| NCS DC 70317 Rock | 0.87 | 8.19 | 1.74 | 2.86 | 0.366 | 0.079 | 0.090 | | | | | | | | |
| NCS DC 70318 Rock | 1.07 | 1.32 | 2.09 | 3.56 | 0.422 | 0.055 | 0.097 | | | | | | | | |
| NCS DC 70319 Rock | 0.70 | 1.40 | 2.72 | 3.65 | 0.589 | 0.069 | 0.111 | | | | | | | | |
| NCS DC 70320 Rock | 0.93 | 2.40 | 3.26 | 3.18 | 0.461 | 0.059 | 0.129 | | | | | | | | |
| Value with * is in percent | | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | Unit Size (in g) | |
| NCS DC 70321 Rock | | Ag | As | Au* | B | Ba | Be | Bi | Br | Cd | Cl | Co | Cr | Cs | 60 |
| NCS DC 70322 Rock | | 0.06 | 14.3 | 0.4 | 19.7 | 875 | 3.60 | 0.33 | 0.8 | 0.07 | 82 | 4.4 | 16.5 | 16.2 | 60 |
| NCS DC 70323 Rock | | 0.08 | 28.8 | 0.7 | 28.1 | 711 | 2.48 | 0.29 | 0.7 | 0.12 | 93 | 6.0 | 17.7 | 48.1 | 60 |
| NCS DC 70324 Rock | | 0.10 | 54.6 | 2.9 | 134 | 475 | 3.88 | 0.48 | 1.3 | 0.08 | 71 | 13.2 | 59.0 | 42.5 | 60 |
| NCS DC 70321 Rock | | 0.07 | 24.9 | 1.4 | 143 | 472 | 5.62 | 0.45 | 0.9 | 0.08 | 63 | 10.3 | 55.2 | 16.6 | 60 |
| NCS DC 70322 Rock | | Ou | F | Ga | Ge | Hf | Hg | Li | Mn | Mo | Nb | Ni | P | Pb | |
| NCS DC 70323 Rock | | 10.8 | 452 | 16.5 | 1.02 | 6.1 | 0.008 | 25.7 | 258 | 0.60 | 10.1 | 8.8 | 459 | 48.9 | |
| NCS DC 70324 Rock | | 10.7 | 415 | 15.5 | 1.18 | 6.9 | 0.017 | 26.7 | 430 | 0.65 | 10.9 | 8.5 | 455 | 36.3 | |
| NCS DC 70321 Rock | | 44.0 | 555 | 17.1 | 1.66 | 6.3 | 0.066 | 69.8 | 608 | 0.66 | 15.5 | 37.2 | 542 | 27.7 | |
| NCS DC 70322 Rock | | 27.7 | 457 | 17.6 | 1.63 | 7.4 | 0.053 | 66.8 | 392 | 0.65 | 17.2 | 27.8 | 625 | 32.1 | |
| NCS DC 70323 Rock | | Pb | Sc | Sb | Se | Sn | Sr | Ta | Te | Tn | Ti(%) | Tl | U | V | |
| NCS DC 70324 Rock | | 229 | 3.9 | 0.67 | 0.04 | 2.1 | 340 | 1.0 | (0.03) | 317 | 0.170 | 1.42 | 5.1 | 31.5 | |
| NCS DC 70321 Rock | | 170 | 5.5 | 2.34 | 0.05 | 2.0 | 250 | 1.1 | (0.04) | 19.9 | 0.249 | 1.26 | 3.5 | 50.6 | |
| NCS DC 70322 Rock | | 110 | 10.5 | 10.4 | 0.39 | 4.6 | 327 | 1.2 | 0.15 | 15.6 | 0.339 | 0.66 | 2.1 | 85.0 | |
| NCS DC 70323 Rock | | 131 | 9.3 | 1.55 | 0.33 | 6.4 | 157 | 1.4 | 0.07 | 14.9 | 0.364 | 0.69 | 2.3 | 77.3 | |
| NCS DC 70324 Rock | | W | Zn | Zr | I | In | Pd* | Pt* | S | La | Ce | Pr | Nd | Sm | |
| NCS DC 70321 Rock | | 2.5 | 39.7 | 210 | (0.23) | (0.03) | (0.3) | (0.2) | (57) | 63.2 | 109 | 11.2 | 37 | 5.69 | |
| NCS DC 70322 Rock | | 3.1 | 50.8 | 243 | (0.22) | (0.042) | (0.3) | (0.4) | (59) | 41.6 | 77.6 | 8.61 | 30.2 | 5.26 | |
| NCS DC 70323 Rock | | 6.5 | 77.1 | 210 | (0.5) | (0.07) | (0.8) | (0.6) | (528) | 42.6 | 90.1 | 10.1 | 36.3 | 7.19 | |
| NCS DC 70324 Rock | | 2.6 | 76.4 | 247 | (0.5) | (0.06) | (7) | (0.4) | (160) | 40.0 | 84.4 | 9.42 | 34.8 | 6.69 | |
| NCS DC 70321 Rock | | Eu | Gd | Tb | Dy | Ho | Er | Tm | Yb | La | Y | SiO ₂ * | Al ₂ O ₃ * | Fe ₂ O ₃ (T)* | |
| NCS DC 70322 Rock | | 0.98 | 4.40 | 0.59 | 2.95 | 0.58 | 1.62 | 0.25 | 1.54 | 0.24 | 15.5 | 73.59 | 13.41 | 1.71 | |
| NCS DC 70323 Rock | | 1.05 | 4.43 | 0.64 | 3.49 | 0.69 | 1.99 | 0.32 | 1.96 | 0.30 | 18.6 | 73.67 | 12.57 | 2.85 | |
| NCS DC 70324 Rock | | 1.40 | 6.58 | 1.01 | 5.56 | 1.06 | 2.98 | 0.44 | 2.67 | 0.38 | 29.5 | 60.95 | 11.89 | 5.47 | |
| NCS DC 70321 Rock | | 1.29 | 6.05 | 0.93 | 5.10 | 0.99 | 2.75 | 0.41 | 2.57 | 0.37 | 25.9 | 70.16 | 12.79 | 4.82 | |
| NCS DC 70322 Rock | | MgO* | CaO* | Na ₂ O* | K ₂ O* | TiO ₂ * | MnO* | P ₂ O ₅ * | | | | | | | |
| NCS DC 70323 Rock | | 0.49 | 1.53 | 2.69 | 4.33 | 0.290 | 0.034 | 0.105 | | | | | | | |
| NCS DC 70324 Rock | | 0.62 | 1.38 | 2.50 | 3.87 | 0.421 | 0.056 | 0.104 | | | | | | | |
| NCS DC 70321 Rock | | 0.78 | 7.77 | 1.09 | 2.01 | 0.558 | 0.078 | 0.124 | | | | | | | |
| NCS DC 70322 Rock | | 0.62 | 2.29 | 1.48 | 2.67 | 0.616 | 0.051 | 0.142 | | | | | | | |
| Value with * is in percent | | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition (Percent) | | | | | | | | | | | | Unit Size (in g) | |
| NCS DC 71301 Rock | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | FeO | MgO | CaO | TiO ₂ | P ₂ O ₃ | MnO | Na ₂ O | K ₂ O | H ₂ O | CO ₂ | 70 |
| NCS DC 71302 Rock | | 54.48 | 17.72 | 6.04 | 1.23 | 0.65 | 1.39 | 0.48 | 0.018 | 0.12 | 7.16 | 7.48 | 2.38 | 0.26 | 70 |
| NCS DC 71303 Rock | | 63.06 | 16.1 | 4.51 | 0.19 | 0.84 | 2.47 | 0.8 | 0.36 | 0.089 | 3.06 | 5.17 | 1.79 | 1.03 | 70 |
| NCS DC 71304 Rock | | 59.68 | 16.56 | 2.64 | 3.08 | 2.81 | 4.72 | 0.77 | 0.34 | 0.094 | 4.05 | 3.50 | 0.88 | 0.15 | 70 |
| NCS DC 71305 Rock | | 35.69 | 14.14 | 9.90 | 13.36 | 5.25 | 9.86 | 7.69 | 0.028 | 0.193 | 2.11 | 0.15 | 1.09 | 0.12 | 70 |
| NCS DC 71306 Rock | | 72.78 | 12.96 | 1.14 | 1.86 | 0.16 | 0.59 | 0.30 | 0.045 | 0.14 | 2.57 | 5.43 | 1.18 | 0.52 | 70 |
| NCS DC 71301 Rock | | 0.62 | 0.10 | 0.04 | 0.15 | 21.8 | 30.02 | 0.015 | 0.006 | 0.010 | (0.003) | 0.038 | (0.34) | 46.77 | 70 |
| NCS DC 71302 Rock | | S | Cl | F | Q(T) | | | | | | | | | | |
| NCS DC 71303 Rock | | 0.011 | 0.059 | 0.048 | (0.093) | | | | | | | | | | |
| NCS DC 71304 Rock | | 0.023 | 0.016 | 0.112 | (0.29) | | | | | | | | | | |
| NCS DC 71305 Rock | | 0.011 | 0.023 | 0.084 | (0.057) | | | | | | | | | | |
| NCS DC 71306 Rock | | 0.37 | 0.006 | 0.006 | (0.039) | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| | | S | Cl | F | C(T) | | | | | | | | | | | Unit Size |
|--------------|-----------------|--------------------------------|----------|--------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|-----------|-----------|
| NCS DC 71305 | Rock | 0.009 | (0.002) | 0.13 | (0.15) | | | | | | | | | | | |
| NCS DC 71306 | Rock | | 0.012 | 0.014 | (12.88) | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size | |
| | | Ta | Te | Th | Tl | U | Ag | As | W | B | Ba | Cu | Zr | Ga | (in g) | |
| NCS DC 71301 | Rock | 1.96 | 0.012 | 79.3 | 0.76 | 14.6 | (0.033) | 6.27 | 1.24 | 31.8 | 251 | 11.8 | 0.154* | 35.8 | | |
| NCS DC 71302 | Rock | 1.42 | (0.007) | 16.7 | 1.02 | 3.04 | 0.17 | 5.96 | 1.62 | 10.8 | 1053 | 9.1 | 335 | 19.8 | | |
| NCS DC 71303 | Rock | 0.62 | 0.011 | 10.9 | 0.39 | 1.40 | 0.066 | 0.4 | 0.19 | 3.92 | 0.190* | 8.8 | 224 | 20.8 | | |
| NCS DC 71304 | Rock | (0.56) | 0.010 | (0.28) | 0.07 | (0.086) | 0.05 | (0.21) | (0.10) | 1.84 | 86.2 | 28.3 | 29 | 23.7 | | |
| NCS DC 71305 | Rock | 2.41 | (0.0009) | (27.1) | 0.83 | 4.83 | 0.08 | 0.7 | 1.10 | 3.5 | 506 | 10.9 | 403 | 20.5 | | |
| NCS DC 71306 | Rock | (0.18) | (0.012) | 0.11 | (0.070) | 0.16 | 0.04 | 0.23 | 0.11 | 20.5 | 44.3 | 30.2 | 3.0 | (0.21) | | |
| | | Ge | Hg | Li | Pb | Sc | Sr | Zn | Br | Cd | Sb | Ce | Dy | Eu | V | |
| NCS DC 71301 | Rock | 0.95 | 0.005 | 32.9 | 196 | 2.22 | 0.016* | 112 | 1.21 | 0.07 | 0.15 | 242 | 4.70 | 2.35 | 179 | |
| NCS DC 71302 | Rock | 1.11 | 0.014 | 17.5 | 97.7 | 7.52 | 318 | 164 | (0.55) | 0.61 | 1.34 | 117 | 5.32 | 1.96 | 64.3 | |
| NCS DC 71303 | Rock | 1.00 | 0.035 | 16.2 | 19.8 | 10.3 | 1198 | 85.4 | (0.34) | 0.08 | 0.06 | 112 | 3.20 | 1.91 | 104 | |
| NCS DC 71304 | Rock | 1.06 | (0.005) | 1.94 | (5.16) | 22.5 | 612 | 118 | (0.32) | 0.09 | (0.04) | 4.2 | 1.11 | 0.74 | 768 | |
| NCS DC 71305 | Rock | 1.17 | 0.005 | 12.7 | 33.3 | 5.15 | 43.0 | 86.3 | (0.25) | 0.14 | 0.38 | 163 | 8.19 | 1.18 | 3.8 | |
| NCS DC 71306 | Rock | 0.15 | (0.004) | 2.30 | (4.44) | 0.098 | 27.0 | 11.7 | 0.84 | 0.07 | (0.04) | 3.58 | 0.19 | 0.05 | (21) | |
| | | Gd | Ho | La | Lu | Nd | Sm | Tb | Tm | Yb | Er | Pr | Y | Be | | |
| NCS DC 71301 | Rock | 7.0 | 0.96 | 14.9 | 0.43 | 65.1 | 9.7 | 1.02 | 0.46 | 2.56 | 2.48 | 22.5 | 24.7 | 17.2 | | |
| NCS DC 71302 | Rock | 6.54 | 1.10 | 62.5 | 0.49 | 47.2 | 8.63 | 0.99 | 0.5 | 3.15 | 2.93 | 13.2 | 28.0 | 3.64 | | |
| NCS DC 71303 | Rock | 5.09 | 0.60 | 60.5 | 0.24 | 48.1 | 7.74 | 0.68 | 0.26 | 1.56 | 1.57 | 13.2 | 15.5 | 2.11 | | |
| NCS DC 71304 | Rock | 1.31 | 0.20 | 1.71 | 0.06 | 4.10 | 1.22 | 0.20 | 0.09 | 0.36 | 0.47 | 0.84 | 4.9 | (0.98) | | |
| NCS DC 71305 | Rock | 9.47 | 1.64 | 82.7 | 0.67 | 64.5 | 11.7 | 1.51 | 0.73 | 4.51 | 4.31 | 18.4 | 42.5 | 4.09 | | |
| NCS DC 71306 | Rock | 0.18 | 0.04 | 1.34 | 0.019 | 1.39 | 0.25 | 0.05 | (0.040) | 0.09 | 0.09 | (0.44) | (1.40) | (0.22) | | |
| | | Bi | Co | Cr | Cs | Hf | I | In | Mo | Nb | Ni | Pb | Se | Sn | | |
| NCS DC 71301 | Rock | 0.37 | 4.59 | 3.6 | 2.05 | 34.0 | 0.14 | 0.15 | 0.26 | 66.9 | 1.75 | 130 | 0.05 | 6.50 | | |
| NCS DC 71302 | Rock | 0.09 | 7.9 | 7.7 | 7.16 | 7.5 | 0.07 | 0.11 | 0.95 | 20.8 | 12.6 | 183 | 0.03 | 3.12 | | |
| NCS DC 71303 | Rock | 0.05 | 15.6 | 37.6 | 0.97 | 5.2 | (0.078) | 0.08 | 0.47 | 10.6 | 24.4 | 70.1 | 0.03 | 1.44 | | |
| NCS DC 71304 | Rock | 0.04 | 93.0 | 14.5 | (0.17) | 0.65 | 0.08 | 0.12 | (0.94) | 9.3 | 69 | (4.79) | 0.26 | 0.89 | | |
| NCS DC 71305 | Rock | 0.06 | 2.40 | 7.3 | 3.34 | 10.8 | (0.093) | 0.09 | 2.46 | 34.3 | 64.5 | 213 | 0.040 | 3.35 | | |
| NCS DC 71306 | Rock | 0.03 | 3.88 | 2.6 | 0.07 | (0.10) | 0.23 | (0.066) | (0.024) | (2.77) | 241 | (1.42) | 0.08 | 0.53 | | |
| Number | Name | Chemical Composition (Percent) | | | | | | | | | | | | | Unit Size | |
| | | Ag | Cd | Cu | Fe | S | Sb | Sn | Zn | Pb | | | | | | (in g) |
| NCS DC 71307 | Sulfied Mineral | | | | 46.08 | 52.72 | | | | | | | | | | 10 |
| NCS DC 71309 | Sulfied Mineral | 0.97 | | | | 13.30 | 0.43 | 0.11 | | 84.26 | | | | | | 10 |
| NCS DC 71310 | Sulfied Mineral | | 0.15 | 0.10 | 2.14 | 32.33 | | | 62.51 | 0.099 | | | | | | 10 |
| | | Chemical Composition (µg/g) | | | | | | | | | | | | | | |
| | | Ag | As | Bi | Cd | Co | Ga | Ge | In | Sb | Se | Sn | Te | | | |
| NCS DC 71307 | Sulfied Mineral | 0.59 | (14.4) | 2.9 | 0.71 | (3.9) | 0.44 | (0.2) | | 1.1 | 5.8 | (2.7) | 0.95 | | | |
| NCS DC 71309 | Sulfied Mineral | | 5.3 | 1.4 | 16.5 | (0.4) | (0.3) | 1.47 | 0.29 | | | | (0.07) | | | |
| NCS DC 71310 | Sulfied Mineral | 5.0 | (3.3) | 6.1 | | 491 | 251 | 6.0 | 21.0 | 249 | (3.0) | (0.2) | (0.3) | | | |
| | | Zn | Ti | Mn | Ni | Pb | Cu | Fe | | | | | | | | |
| NCS DC 71307 | Sulfied Mineral | 219 | | 28.9 | 34.0 | (23.4) | 431 | | | | | | | | | |
| NCS DC 71309 | Sulfied Mineral | 533 | 0.65 | | | | 62.4 | 127 | | | | | | | | |
| NCS DC 71310 | Sulfied Mineral | | | 169 | 43.2 | | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) |
|--------------|---------------------------|--------------------------------|--------------------------------|------------------|--------------------------------|---------------------------------|-------------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|------------------|-------|---------------------|
| | | Al ₂ O ₃ | CaO | FeO | K ₂ O | Na ₂ O | MgO | Mn | P ₂ O ₅ | SiO ₂ | Fe ₂ O ₃ | TiO ₂ | LOI | |
| NCS DC 71311 | Rock | 13.21 | 7.83 | 7.24 | 1.49 | 3.17 | 5.08 | 0.16 | 0.55 | 49.88 | 13.40 | 2.94 | 2.30 | 70 |
| NCS DC 71312 | Rock | 3.73 | 12.64 | 3.71 | 0.49 | (0.10) | 17.56 | 0.09 | 0.30 | 35.88 | 6.53 | 0.71 | 20.73 | 70 |
| NCS DC 71313 | Rock | 13.19 | (0.10) | (0.04) | 6.22 | 1.6 | 0.13 | 0.013 | 0.18 | 76.40 | 0.24 | 0.61 | 1.27 | 70 |
| | | CO ₂ | Cl | F | H ₂ O* | SO ₃ | Ba | | | | | | | |
| NCS DC 71311 | Rock | (0.11) | (0.04) | (0.07) | (2.44) | 0.44 | | | | | | | | |
| NCS DC 71312 | Rock | (16.78) | (0.04) | (0.11) | (4.47) | 0.68 | 0.177 | | | | | | | |
| NCS DC 71313 | Rock | (0.05) | | (0.03) | (1.02) | 0.07 | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | |
| | | Ag | As | B | Ba | Be | Bi | Cd | Ce | Co | Cr | Cs | Cu | |
| NCS DC 71311 | Rock | 0.33 | 5.1 | 17.0 | 614 | 1.5 | 0.39 | 0.39 | 78.1 | 37.5 | 109 | 1.7 | 82.6 | |
| NCS DC 71312 | Rock | (0.06) | 3.5 | (31.8) | | 1.3 | (0.10) | 0.46 | 12.7 | 40.0 | 776 | 5.2 | 26.2 | |
| NCS DC 71313 | Rock | (0.09) | 3.1 | (1.9) | 728 | 1.3 | (0.07) | 0.15 | (5.0) | (1.5) | 4.8 | 1.8 | 4.2 | |
| | | Dy | Er | Eu | Ga | Gd | Ge | Hf | Hg | Ho | La | Li | Lu | |
| NCS DC 71311 | Rock | 5.5 | 2.6 | 3.5 | 21.2 | 7.2 | 1.5 | 9.2 | 0.017 | 1.2 | 38.1 | 20.8 | 0.34 | |
| NCS DC 71312 | Rock | 2.6 | 1.2 | 1.6 | 7.1 | 4.7 | 0.89 | 4.9 | 0.010 | 0.49 | 69.8 | 75.7 | 0.16 | |
| NCS DC 71313 | Rock | 0.20 | 0.12 | (0.16) | 13.5 | 0.22 | 1.48 | (0.80) | (0.008) | (0.04) | (3.3) | 14.4 | 0.03 | |
| | | Mo | Nb | Nd | Ni | Pb | Pr | Rb | Sb | Sc | Se | Sm | Sn | |
| NCS DC 71311 | Rock | 1.4 | 25.3 | 42.8 | 55.3 | 33.0 | 10.6 | 47.4 | 2.3 | 27.1 | (0.19) | 8.6 | 2.0 | |
| NCS DC 71312 | Rock | 1.4 | 56.8 | 49.0 | 542 | 20.7 | 13.8 | 28.4 | (0.22) | 10.9 | 0.10 | 6.5 | 1.7 | |
| NCS DC 71313 | Rock | 0.29 | 14.6 | 1.51 | (1.6) | 34.6 | 0.48 | 155 | 0.64 | (2.85) | (0.015) | (0.24) | 3.5 | |
| | | Sr | Ta | Tb | Th | Tm | U | V | W | Y | Yb | Zn | Zr | |
| NCS DC 71311 | Rock | 470 | 1.8 | 1.1 | 4.9 | 0.36 | 1.2 | 268 | 1.4 | 24.5 | 2.2 | 160 | 352 | |
| NCS DC 71312 | Rock | 262 | 3.9 | 0.54 | 10.8 | 0.17 | 2.2 | 89.4 | 2.4 | 11.6 | 1.1 | 190 | 175 | |
| NCS DC 71313 | Rock | 45.5 | 1.3 | (0.04) | 0.66 | (0.02) | (0.75) | (44.5) | 3.2 | 1.6 | 0.21 | 20.3 | 22.6 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | |
| | | No ₂ O ₃ | K ₂ O | SiO ₂ | ZnO | PbO | B ₂ O ₃ | Al ₂ O ₃ | MgO | TiO ₂ | Fe ₂ O ₃ | CaO | | |
| NCS DC 71401 | Zinc Oxide for EPMA | | | (0.04) | 99.80 | | | (0.10) | | | | | | |
| NCS DC 71402 | Potassium Niobat for EPMA | 74.10 | 25.89 | | | | | | | | | | | |
| NCS DC 71403 | Lead Glass for EPMA | | 3.12 | 32.70 | | 64.4 | | | | | | | | |
| NCS DC 71404 | Boron Glass for EPMA | | | 37.11 | | | (11.21) | 35.24 | 10.28 | (0.42) | (0.44) | (0.77) | | |
| NCS DC 71405 | Kyanite for EPMA | | | 37.06 | | | | 62.70 | | | | | | |
| NCS DC 71406 | Pyrite for EPMA | | | | | | | | | | | | | |
| NCS DC 71407 | Olivine for EPMA | | | 40.73 | | | | 50.05 | | | (0.04) | | | |
| NCS DC 71408 | Feldspar for EPMA | | 4.51 | 65.97 | | | | 19.88 | (0.02) | | 0.89 | | | |
| NCS DC 71409 | Chromite for EPMA | | | (0.15) | | | | (7.36) | 12.38 | | | | | |
| NCS DC 71410 | Quartz for EPMA | | | 99.98 | | | | | | | | | | |
| NCS DC 71411 | Garnet for EPMA | | | 36.31 | | | | 20.05 | 0.08 | | 10.21 | | | |
| | | Na ₂ O | Cr ₂ O ₃ | MnO | Fe ₂ O ₃ | TFe ₂ O ₃ | FeO | Fe | S | P ₂ O ₅ | | | | |
| NCS DC 71404 | Boron Glass for EPMA | (1.27) | | | | | | | | (0.025) | | | | |
| NCS DC 71405 | Kyanite for EPMA | | | | | | | | | | | | | |
| NCS DC 71406 | Pyrite for EPMA | | | | | | | 53.19 | | | | | | |
| NCS DC 71407 | Olivine for EPMA | | | (0.17) | | | 8.67 | | | | | | | |
| NCS DC 71408 | Feldspar for EPMA | 7.08 | | | | | | | | | | | | |
| NCS DC 71409 | Chromite for EPMA | | 64.34 | (0.10) | (1.68) | | 14.04 | | | | | | | |
| NCS DC 71410 | Quartz for EPMA | | | | | | (0.02) | | | | | | | |
| NCS DC 71411 | Garnet for EPMA | | | 29.71 | | (15.25) | 13.4 | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) |
|--------------|----------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| | | Pb | S | Zn | Hg | BaO | SO ₃ | PbO | CO ₂ | WO ₃ | CaO | Nb ₂ O ₃ | |
| NCS DC 71412 | Galena for EPMA | 86.35 | 13.44 | | | | | | | | | | |
| NCS DC 71413 | Sphalerite for EPMA | | 32.76 | 66.33 | | | | | | | | | |
| NCS DC 71414 | Cinnabar for EPMA | | 13.63 | | 86.00 | | | | | | | | |
| NCS DC 71415 | Barite for EPMA | | | | | 65.56 | 34.28 | | | | | | |
| NCS DC 71416 | Cerussite for EPMA | | | | | | | 83.36 | (16.82) | | | | |
| NCS DC 71417 | Scheelite for EPMA | | | | | | | | | 80.45 | 19.39 | | |
| NCS DC 71418 | Manganocolumbite for EPMA | | | | | | | | | | | 54.74 | 25.92 |
| | | FeO | MnO | | | | | | | | | | |
| NCS DC 71418 | Manganocolumbite for EPMA | 6.65 | 12.47 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | |
| | | Cd | Te | Se | Ga | As | Zn | In | Sb | P | | | |
| NCS DC 71419 | Cadmium Telluride for EPMA | 46.87 | 53.39 | | | | | | | | | | |
| NCS DC 71420 | Cadmium Selenide for EPMA | 58.48 | | 40.88 | | | | | | | | | |
| NCS DC 71421 | Cadmium Arsenide for EPMA | | | | 48.07 | 51.95 | | | | | | | |
| NCS DC 71422 | Zinc Selenide for EPMA | | | 54.44 | | | 45.38 | | | | | | |
| NCS DC 71423 | Indium Antimonide for EPMA | | | | | | | 48.59 | 51.45 | | | | |
| NCS DC 71424 | Indium Phosphide for EPMA | | | | | | | 78.51 | | 21.12 | | | |
| NCS DC 71425 | Indium Arsenide for EPMA | | | | | 39.60 | | 60.97 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | |
| | | P ₂ O ₅ | Sc ₂ O ₃ | La ₂ O ₃ | Ce ₂ O ₃ | Pr ₂ O ₃ | Nd ₂ O ₃ | Sm ₂ O ₃ | Gd ₂ O ₃ | Ho ₂ O ₃ | Yb ₂ O ₃ | | Lu ₂ O ₃ |
| NCS DC 71426 | Sc P 5014 for EPMA | 85.6 | 16.42 | | | | | | | | | | |
| NCS DC 71427 | La P 5014 for EPMA | 67.70 | | 31.25 | | | | | | | | | |
| NCS DC 71428 | Ce P 5014 for EPMA | 68.32 | | | 31.7 | | | | | | | | |
| NCS DC 71429 | Pr P 5014 for EPMA | 68.67 | | | | 31.83 | | | | | | | |
| NCS DC 71430 | Nd P 5014 for EPMA | 68.12 | | | | | 32.2 | | | | | | |
| NCS DC 71431 | Sm P 5014 for EPMA | 68.87 | | | | | | 32.07 | | | | | |
| NCS DC 71432 | Gd P 5014 for EPMA | 66.6 | | | | | | | 33.71 | | | | |
| NCS DC 71433 | Ho P 5014 for EPMA | 65.37 | | | | | | | | 34.52 | | | |
| NCS DC 71434 | Yb P 5014 for EPMA | 64.1 | | | | | | | | | 35.88 | | |
| NCS DC 71435 | Lu P 5014 for EPMA | 63.44 | | | | | | | | | | 36.08 | |

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| Number | Name | Chemical Composition (Percent) | | | | | | | | | | | | Unit Size (in g) |
|--------------|----------|--------------------------------|------------------|--------------------------------|--------------------------------|--------|-------|-------------------|-------------------|-------------------------------|-------------------------------|-----------------|---------------------|---------------------|
| | | TFe | SiO ₂ | Al ₂ O ₃ | FeO | MgO | CaO | Na ₂ O | K ₂ O | H ₂ O ⁺ | S | P | Ti | |
| NCS DC 73001 | Iron ore | 20.17 | 60.86 | 3.57 | (7.49) | 1.68 | 2.84 | 0.28 | 0.53 | (1.18) | 0.051 | 0.045 | 0.085 | 50 |
| NCS DC 73002 | Iron ore | 30.34 | 43.68 | 3.43 | 5.8 | 1.44 | 2.17 | 0.18 | 0.85 | (2.08) | 0.066 | 0.094 | 0.091 | 50 |
| NCS DC 73003 | Iron ore | 40.51 | 33.93 | 2.27 | (14.5) | 2.22 | 2.00 | 0.16 | 0.27 | (1.37) | 0.95 | 0.032 | 0.067 | 50 |
| NCS DC 73004 | Iron ore | 49.50 | 16.30 | 2.58 | 7.66 | 0.98 | 0.91 | 0.035 | 0.92 | (2.1) | 0.065 | 0.138 | 0.083 | 50 |
| NCS DC 73005 | Iron ore | 56.60 | 11.48 | 0.99 | 20.05 | 3.62 | 1.36 | 0.058 | 0.071 | (1.63) | 2.44 | 0.017 | 0.043 | 50 |
| NCS DC 73006 | Iron ore | 61.46 | 6.65 | 1.68 | (0.35) | 0.77 | 0.52 | 0.081 | 0.098 | (0.046) | 0.0067 | 0.019 | 1.12 | 50 |
| NCS DC 73007 | Iron ore | 62.51 | 10.93 | 1.02 | 21.54 | 0.28 | 0.18 | 0.016 | 0.038 | (0.41) | 0.0058 | 0.11 | 0.059 | 50 |
| NCS DC 73009 | Iron ore | 66.87 | 5.05 | 0.99 | 23.14 | 0.22 | 0.14 | 0.012 | 0.030 | (0.44) | 0.0055 | (0.011) | 0.059 | 50 |
| | | Mn | Cu | | | | | | | | | | | |
| NCS DC 73001 | Iron ore | 0.168 | 0.0028 | | | | | | | | | | | |
| NCS DC 73002 | Iron ore | 0.200 | 0.0023 | | | | | | | | | | | |
| NCS DC 73003 | Iron ore | 0.122 | 0.028 | | | | | | | | | | | |
| NCS DC 73004 | Iron ore | 0.198 | 0.0014 | | | | | | | | | | | |
| NCS DC 73005 | Iron ore | 0.076 | 0.068 | | | | | | | | | | | |
| NCS DC 73006 | Iron ore | 0.072 | 0.0028 | | | | | | | | | | | |
| NCS DC 73007 | Iron ore | 0.061 | (0.0015) | | | | | | | | | | | |
| NCS DC 73009 | Iron ore | 0.071 | 0.0015 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | |
| | | Cr ₂ O ₃ | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | FeO | MgO | CaO | Na ₂ O | K ₂ O | H ₂ O ⁺ | CO ₂ | | |
| NCS DC 73010 | Chromite | 17.59 | 20.30 | 11.86 | 10.52 | (8.68) | 28.12 | 0.44 | (0.13) | 0.046 | (10.7) | (0.6) | 50 | |
| NCS DC 73011 | Chromite | 34.44 | 12.24 | 11.37 | 11.81 | (8.5) | 23.32 | 0.32 | 0.073 | 0.026 | (6.4) | (0.46) | 50 | |
| NCS DC 73012 | Chromite | 46.56 | 5.06 | 11.60 | 15.34 | (12.0) | 17.92 | 0.46 | 0.018 | (0.010) | 2.5 | (1.2) | 50 | |
| NCS DC 73013 | Chromite | 57.80 | 1.10 | 10.53 | 13.70 | (8.3) | 16.45 | (0.13) | (0.016) | (0.004) | (0.59) | (0.14) | 50 | |
| | | S | Ni | Co | P | Ti | Mn | V | | | | | | |
| NCS DC 73010 | Chromite | 0.037 | 0.188 | 0.0124 | 0.0031 | 0.085 | 0.088 | 0.043 | | | | | | |
| NCS DC 73011 | Chromite | 0.024 | 0.175 | 0.14 | 0.0020 | 0.100 | 0.090 | 0.044 | | | | | | |
| NCS DC 73012 | Chromite | 0.076 | 0.134 | 0.016 | (0.0013) | 0.070 | 0.135 | 0.064 | | | | | | |
| NCS DC 73013 | Chromite | (0.005) | 0.16 | 0.016 | (0.0012) | 0.122 | 0.097 | 0.048 | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(µg/g) | | | | | | | | | Unit Size (in g) |
|--------------|-----------------|----------------------------|-----------|--------------|------------|--------------|-----------|-------------|-------------|--------------|---------------------|
| | | Ag | As | B | Ba | Be | Bi | Br | Cd | Ce | |
| NCS DC 73014 | Stream Sediment | 0.14±0.01 | 14.3±0.9 | 53±7 | 455±9 | 2.2±0.1 | 0.51±0.03 | 0.8±0.2 | 0.34±0.02 | 47±2 | 70 |
| NCS DC 73015 | Stream Sediment | 0.050±0.007 | 3.6±0.4 | 48±6 | 600±20 | 3.6±0.4 | 0.48±0.03 | 0.61±0.13 | 0.093±0.009 | 24±2 | 70 |
| NCS DC 73016 | Stream Sediment | 0.74±0.14 | 43±4 | 62±6 | 623±18 | 2.9±0.3 | 1.25±0.04 | 3.7±0.5 | 4.3±0.5 | 63±2 | 70 |
| NCS DC 73017 | Stream Sediment | 0.044±0.014 | 4.4±0.3 | 5.5±1.2 | 1054±17 | 1.6±0.1 | 0.33±0.04 | 1.0±0.2 | 0.095±0.010 | 32±2 | 70 |
| NCS DC 73018 | Stream Sediment | 0.092±0.005 | 3.0±0.4 | 14±3 | 567±11 | 1.9±0.1 | 0.22±0.01 | 1.0±0.2 | 0.12±0.01 | 90±4 | 70 |
| NCS DC 73019 | Stream Sediment | 0.082±0.008 | 51±3 | 28±2 | 360±8 | 1.3±0.2 | 0.17±0.02 | 1.1±0.4 | 0.22±0.01 | 39±2 | 70 |
| NCS DC 73020 | Stream Sediment | 0.14±0.01 | 19.2±1.9 | 35±6 | 727±15 | 1.5±0.1 | 0.20±0.01 | (0.9) | 0.76±0.03 | 44±2 | 70 |
| NCS DC 73021 | Stream Sediment | 0.068±0.010 | 10.5±0.6 | 46±10 | 584±14 | 1.5±0.1 | 0.25±0.02 | 1.3±0.2 | 0.165±0.010 | 47±1 | 70 |
| NCS DC 73022 | Stream Sediment | 2.1±0.3 | 304±20 | 70±8 | 590±10 | 2.4±0.1 | 13.1±0.6 | 1.4±0.2 | 4.8±0.5 | 79±2 | 70 |
| | | Chemical Composition(µg/g) | | | | | | | | | |
| | | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | |
| NCS DC 73014 | Stream Sediment | 53±5 | 10.2±0.4 | 61±4 | 5.8±0.3 | 132±5 | 4.1±0.3 | 2.5±0.2 | 1.20±0.06 | 550±21 | |
| NCS DC 73015 | Stream Sediment | 33±3 | 4.4±0.2 | 21±33 | 7.2 ± 0.2 | 7.2±0.52 | 1.7±0.1 | 0.93±0.09 | 0.62±0.03 | 279±8 | |
| NCS DC 73016 | Stream Sediment | 133±9 | 9.4±0.2 | 5±2 | 6.0±0.3 | 6.5±1.0 | 4.7±0.3 | 3.0±0.3 | 0.98±0.04 | 460±37 | |
| NCS DC 73017 | Stream Sediment | (30) | 12.5±0.9 | 8.4±1.2 | 1.5±0.2 | 3.9±0.6 | 1.3±0.1 | 0.8±0.1 | 0.54±0.05 | 131±20 | |
| NCS DC 73018 | Stream Sediment | 62±5 | 19.5±0.6 | 79±3 | 4.6 ± 0.3 | 43±1 | 6.5±0.3 | 3.7±0.2 | 1.4±0.1 | 664±22 | |
| NCS DC 73019 | Stream Sediment | 38±6 | 29±2 | 220±16 | 2.9±0.2 | 45±1 | 3.4±0.2 | 2.0±0.2 | 1.12±0.04 | 390±21 | |
| NCS DC 73020 | Stream Sediment | 0.28±0.02* | 8.8±0.4 | 32±4 | 2.2±0.6 | 296±10 | 4.5±0.2 | 2.7±0.2 | 1.11±0.06 | 535±22 | |
| NCS DC 73021 | Stream Sediment | 298±39 | 10.0±0.5 | 48±3 | 5.4±0.3 | 22.6±0.8 | 4.5±0.4 | 2.6±0.3 | 1.08±0.05 | 506±28 | |
| NCS DC 73022 | Stream Sediment | 46±8 | 14.4±0.5 | 72±3 | 10.3 ±0.4 | 483±20 | 5.2±0.2 | 3.0±0.2 | 1.36±0.06 | 603±29 | |
| | | Chemical Composition(µg/g) | | | | | | | | | |
| | | Ga | Gd | Ge | Hf | Hg | Ho | I | In | La | |
| NCS DC 73014 | Stream Sediment | 14.6±0.6 | 4.1±0.2 | 1.87±0.14 | 3.8±0.8 | 0.018±0.006 | 0.83±0.08 | 0.47±0.08 | 0.14±0.01 | 24±1 | |
| NCS DC 73015 | Stream Sediment | 12.4±0.5 | 1.7±0.1 | 1.64 ±0.14 | 2.1±0.4 | (0.007) | 0.33±0.02 | 0.27±0.08 | 0.018±0.004 | 13.9±1.0 | |
| NCS DC 73016 | Stream Sediment | 17.7±0.6 | 4.8±0.2 | 1.15±0.07 | 6.7±0.8 | 0.108±0.011 | 0.99±0.08 | 2.0±0.2 | 0.104±0.009 | 35±1 | |
| NCS DC 73017 | Stream Sediment | 12.0±0.6 | 1.4±0.1 | 1.21±0.07 | 2.7±0.5 | 0.016±0.005 | 0.26±0.03 | 0.46±0.10 | (0.014) | 11.8±0.6 | |
| NCS DC 73018 | Stream Sediment | 16.5±0.4 | 7.0±0.5 | 1.45±0.08 | 7.8±0.7 | (0.014) | 1.27±0.05 | 0.4±0.1 | 0.068±0.008 | 45±2 | |
| NCS DC 73019 | Stream Sediment | 15.5±0.5 | 3.6±0.6 | 1.15±0.08 | (3.3) | 0.089±0.009 | 0.70±0.07 | 0.36±0.07 | 0.050±0.007 | 20±1 | |
| NCS DC 73020 | Stream Sediment | 15.7±0.5 | 4.3±0.4 | 1.06±0.08 | 4.8±0.4 | 0.025±0.005 | 0.93±0.08 | 1.6±0.2 | 0.11±0.01 | 21±1 | |
| NCS DC 73021 | Stream Sediment | 13.4±0.4 | 4.5±0.3 | 1.05±0.04 | 4.1±0.3 | 0.019±0.004 | 0.92±0.10 | 1.7±0.3 | 0.046±0.006 | 24±1 | |
| NCS DC 73022 | Stream Sediment | 21.5±1.0 | 5.5±0.2 | 1.74±0.16 | 7.4±1.3 | 0.115±0.023 | 1.04±0.08 | 1.8±0.2 | 0.36±0.03 | 40±1 | |
| | | Chemical Composition(µg/g) | | | | | | | | | |
| | | Li | Lu | Mn | Mo | N | Nb | Nd | Ni | P | |
| NCS DC 73014 | Stream Sediment | 20.7±2.0 | 0.42±0.04 | 0.142±0.004* | 0.94±0.04 | 150 | 9.4 ± 0.7 | 22±1 | 18.9±0.7 | 568±17 | |
| NCS DC 73015 | Stream Sediment | 40 ± 2 | 0.16±0.02 | 290±7 | 0.33±0.04 | 79 | 5.1±0.7 | 9.8±0.4 | 7.0±0.6 | 335±15 | |
| NCS DC 73016 | Stream Sediment | 23.6±1.6 | 0.52±0.03 | 0.149±0.004* | 1.6±0.2 | 0.276±0.027* | 13.6±0.8 | 28±1 | 14.4±0.7 | 0.107±0.005* | |
| NCS DC 73017 | Stream Sediment | 8.1±0.8 | 0.14±0.03 | 0.122±0.004* | 0.64±0.05 | 218±27 | 9.5±0.7 | 8.9±1.0 | 4.7±0.5 | 234±13 | |
| NCS DC 73018 | Stream Sediment | 43 ± 2 | 0.60±0.08 | 798±31 | 0.84±0.08 | 291±36 | 15.3±0.8 | 40±2 | 70±2 | 459±15 | |
| NCS DC 73019 | Stream Sediment | 19.4±0.5 | 0.31±0.03 | 0.113±0.003* | 0.81±0.11 | 204±37 | 12.3±1.4 | 17.9±0.7 | 102±3 | 850±36 | |
| NCS DC 73020 | Stream Sediment | 16.2±0.8 | 0.47±0.05 | 829±9 | 1.7±0.1 | 140 | 9.2±0.8 | 22±1 | 13.4±0.9 | 608±16 | |
| NCS DC 73021 | Stream Sediment | 28±1 | 0.42±0.04 | 675±19 | 1.1±0.1 | 312±35 | 9.2±0.41 | 23±1 | 26±2 | 571±14 | |
| NCS DC 73022 | Stream Sediment | 38±2 | 0.48±0.02 | 0.103±0.003* | 1.56±0.20 | 711±62 | 6.4±0.7 | 33±1 | 29±1 | 589±39 | |
| | | Chemical Composition(µg/g) | | | | | | | | | |
| | | Pb | Pr | Rb | S | Sb | Sc | Se | Sm | Sn | |
| NCS DC 73014 | Stream Sediment | 210±6 | 5.9±0.4 | 96±4 | 432±60 | 1.18±0.07 | 11.4±0.3 | 0.47 ± 0.10 | 4.5±0.2 | 2.5±0.4 | |
| NCS DC 73015 | Stream Sediment | 31±23 | 2.9±0.3 | 118±3 | 87±10 | 0.16±0.03 | 4.9±0.4 | 0.053±0.013 | 1.9±0.1 | 2.3±0.2 | |
| NCS DC 73016 | Stream Sediment | 41±15 | 7.7±0.6 | 139±3 | 532±84 | 2.0±0.2 | 7.2±0.3 | 0.32±0.09 | 5.4±0.2 | 7.2±1.0 | |
| NCS DC 73017 | Stream Sediment | 22±1 | 2.5±0.4 | 81±2 | 66 ± 10 | 0.29±0.03 | 2.1 ± 0.2 | 0.072±0.009 | 1.6±0.1 | 1.0 | |
| NCS DC 73018 | Stream Sediment | 19±1 | 11.0±0.8 | 121±4 | 110±18 | 0.15±0.04 | 16.9±0.4 | 0.24±0.02 | 7.5±0.2 | 1.9±0.3 | |
| NCS DC 73019 | Stream Sediment | 24±2 | 4.6±0.3 | 39±2 | (350) | 1.9±0.6 | 23±1 | 0.18±0.01 | 3.7±0.2 | 1.9±0.4 | |
| NCS DC 73020 | Stream Sediment | 26±1 | 5.5±0.4 | 53±4 | 0.67±0.06* | 1.00±0.07 | 12.4±0.4 | 1.55±0.34 | 4.7±0.2 | 2.0±0.4 | |
| NCS DC 73021 | Stream Sediment | 17±1 | 5.9±0.3 | 77 ± 2 | (0.62)* | 0.90±0.06 | 10.3±0.4 | 0.21±0.01 | 4.7±0.2 | 2.0±0.4 | |
| NCS DC 73022 | Stream Sediment | 126±5 | 8.9±0.6 | 130±4 | 1.17±0.09* | 25±4 | 13.8±0.3 | 0.69±0.08 | 6.2±0.2 | 6.7±0.6 | |

Section 4 Mineral & Geology(Powder)

| | | Chemical Composition(µg/g) | | | | | | | | |
|--------------|-----------------|----------------------------|--------------------------------|---------------------------------|-------------------|------------------|-------------------|-----------------|-----------|-----------|
| | | Sr | Ta | Tb | Te | Th | Tl(%) | Tl | Tm | U |
| NCS DC 73014 | Stream Sediment | 171±5 | 0.65±0.07 | 0.68±0.05 | (0.05) | 8.3±0.9 | 0.23±0.01 | 0.91±0.07 | 0.4±0.04 | 2.2±0.2 |
| NCS DC 73015 | Stream Sediment | 253±13 | 0.72±0.10 | 0.29±0.02 | (0.02) | 4.1±0.6 | 0.146±0.011 | 0.83±0.08 | 0.16±0.02 | 1.9±0.1 |
| NCS DC 73016 | Stream Sediment | 156±5 | 1.1±0.1 | 0.8±0.1 | (0.05) | 10.9±0.4 | 0.293±0.010 | 1.38±0.17 | 0.49±0.04 | 4.8±0.3 |
| NCS DC 73017 | Stream Sediment | 167±10 | 0.81±0.14 | 0.22±0.02 | (0.03) | 5.4±0.6 | 0.151±0.014 | 0.44±0.06 | 0.13±0.02 | 1.1±0.1 |
| NCS DC 73018 | Stream Sediment | 117±3 | 1.04±0.08 | 1.14±0.08 | 0.05 | 15.4±1.0 | 0.53±0.01 | 0.77±0.07 | 0.59±0.05 | 3.5±0.2 |
| NCS DC 73019 | Stream Sediment | 251±8 | 0.80±0.13 | 0.58±0.04 | 0.05 | 5.4±0.9 | 0.53±0.02 | 0.31±0.07 | 0.31±0.03 | 1.54±0.10 |
| NCS DC 73020 | Stream Sediment | 355±13 | 0.59±0.06 | 0.74±0.02 | 0.25 | 5.5±0.8 | 0.328±0.020 | 0.32±0.02 | 0.46±0.03 | 2.1±0.2 |
| NCS DC 73021 | Stream Sediment | 273±11 | 0.63±0.07 | 0.77±0.04 | 0.05 | 7.8±0.5 | 0.285±0.02 | 0.48±0.03 | 0.43±0.05 | 2.3±0.3 |
| NCS DC 73022 | Stream Sediment | 111±4 | 1.23±0.08 | 0.91±0.05 | 1.4 | 14.0±1.3 | 0.45±0.02 | 1.05±0.08 | 0.49±0.03 | 3.7±0.3 |
| | | Chemical Composition(µg/g) | | | | | | | | |
| | | V | W | Y | Yb | Zn | Zr | | | |
| NCS DC 73014 | Stream Sediment | 77±3 | 2.0±0.1 | 23±2 | 2.6±0.3 | 209±6 | 132±4 | | | |
| NCS DC 73015 | Stream Sediment | 31±1 | 0.66±0.08 | 9.7±0.7 | 1.0±0.1 | 27±2 | 71±7 | | | |
| NCS DC 73016 | Stream Sediment | 49±3 | 3.0±0.2 | 29±2 | 3.2±0.3 | 579±17 | 219±6 | | | |
| NCS DC 73017 | Stream Sediment | 28±2 | 0.58±0.06 | 7.0±0.6 | 0.83±0.04 | 19±2 | 100±11 | | | |
| NCS DC 73018 | Stream Sediment | 120±4 | 1.7±0.2 | 34±2 | 3.8±0.3 | 74±3 | 275±13 | | | |
| NCS DC 73019 | Stream Sediment | 160±10 | 1.1±0.2 | 19±2 | 2.0±0.2 | 97±3 | 122±8 | | | |
| NCS DC 73020 | Stream Sediment | 83±4 | 0.97±0.11 | 26±2 | 3.0±0.3 | 289±6 | 179±13 | | | |
| NCS DC 73021 | Stream Sediment | 69±3 | 1.3±0.1 | 25±3 | 2.7±0.3 | 59±2 | 150±11 | | | |
| NCS DC 73022 | Stream Sediment | 101±3 | 15.5±0.8 | 28±2 | 3.1±0.1 | 874±19 | 241±30 | | | |
| | | Chemical Composition(%) | | | | | | | | |
| | | SiO ₂ | Al ₂ O ₃ | TFe ₂ O ₃ | | | | | | |
| NCS DC 73014 | Stream Sediment | 69.40±0.29 | 11.06±0.13 | 7.00±0.10 | | | | | | |
| NCS DC 73015 | Stream Sediment | 74.33±0.23 | 11.65±0.13 | 1.79±0.05 | | | | | | |
| NCS DC 73016 | Stream Sediment | 61.96±0.31 | 12.94±0.12 | 3.80±0.05 | | | | | | |
| NCS DC 73017 | Stream Sediment | 77.42±0.22 | 11.44±0.13 | 1.86±0.05 | | | | | | |
| NCS DC 73018 | Stream Sediment | 66.02±0.23 | 11.25±0.08 | 6.31±0.07 | | | | | | |
| NCS DC 73019 | Stream Sediment | 54.17±0.30 | 13.94±0.11 | 7.84±0.09 | | | | | | |
| NCS DC 73020 | Stream Sediment | 63.12±0.34 | 13.08±0.10 | 4.80±0.05 | | | | | | |
| NCS DC 73021 | Stream Sediment | 51.43±0.20 | 10.73±0.08 | 3.81±0.04 | | | | | | |
| NCS DC 73022 | Stream Sediment | 64.35±0.45 | 13.61±0.12 | 7.05±0.11 | | | | | | |
| | | Chemical Composition(%) | | | | | | | | |
| | | FeO | MgO | CaO | Na ₂ O | K ₂ O | H ₂ O+ | CO ₂ | Corg | TC |
| NCS DC 73014 | Stream Sediment | (1.83) | 1.70±0.03 | 2.96±0.04 | 1.40±0.02 | 2.35±0.03 | 2.31±0.09 | (0.76) | 0.28±0.03 | (0.48) |
| NCS DC 73015 | Stream Sediment | (0.57) | 0.71±0.04 | 2.85±0.08 | 2.85±0.04 | 2.96±0.05 | 0.98±0.13 | (1.34) | (0.08) | (0.46) |
| NCS DC 73016 | Stream Sediment | (2.55) | 1.29±0.02 | 2.08±0.05 | 2.09±0.05 | 3.17±0.04 | (4) | (0.98) | 4.43±0.26 | 4.76±0.30 |
| NCS DC 73017 | Stream Sediment | (0.2) | 0.18±0.03 | 0.85±0.06 | 2.53±0.04 | 3.89±0.06 | (1) | (0.11) | 0.20±0.02 | (0.25) |
| NCS DC 73018 | Stream Sediment | (2.1) | 2.34±0.04 | 3.82±0.06 | 0.83±0.02 | 2.41±0.03 | 3.23±0.25 | 2.57±0.28 | 0.34±0.05 | 1.01±0.09 |
| NCS DC 73019 | Stream Sediment | (2) | 4.66±0.08 | 5.36±0.12 | 2.35±0.05 | 1.33±0.02 | (4.6) | 4.18±0.30 | 0.32±0.04 | 1.46±0.08 |
| NCS DC 73020 | Stream Sediment | (0.73) | 2.01±0.04 | 4.09±0.08 | 3.15±0.05 | 2.44±0.04 | (3.1) | 1.36±0.17 | 0.11±0.02 | (0.48) |
| NCS DC 73021 | Stream Sediment | (0.66) | 1.83±0.04 | 13.12±0.31 | 1.68±0.03 | 2.17±0.04 | (3.5) | 8.60±0.28 | 0.18±0.02 | 2.6±0.1 |
| NCS DC 73022 | Stream Sediment | (1.1) | 1.25±0.05 | 1.64±0.05 | 0.41±0.04 | 2.76±0.07 | (4.4) | (1.36) | (0.56)** | 0.93±0.10 |

Note: value with * is in percent; value with ** is calculated value; value in () is for reference only. Value behind "±" is uncertainty

| | | Chemical Composition(µg/g) | | | | | | | | | Unit Size |
|--------------|------|----------------------------|----------|--------|--------|---------|-----------|---------|-------------|------|-----------|
| | | Ag | As | B | Ba | Be | Bi | Br | Cd | Ce | (in g) |
| NCS DC 73023 | Soil | 0.050±0.006 | 6.2±0.4 | 24±3 | 606±12 | 1.3±0.1 | 0.15±0.02 | 0.8±0.2 | 0.058±0.011 | 25±2 | 70 |
| NCS DC 73024 | Soil | 0.066±0.005 | 10.7±0.5 | 62±7 | 459±9 | 1.7±0.1 | 0.25±0.01 | 7.2±1.0 | 0.15±0.01 | 57±2 | 70 |
| NCS DC 73026 | Soil | 0.068±0.007 | 8.7±0.6 | 143±38 | 356±17 | 1.3±0.1 | 0.19±0.01 | 6.5±1.2 | 0.108±0.011 | 37±2 | 70 |
| NCS DC 73027 | Soil | 0.073±0.003 | 9.7±0.4 | 48±6 | 510±4 | 1.6±0.1 | 0.25±0.02 | 1.5±0.2 | 0.139±0.008 | 52±2 | 70 |
| NCS DC 73028 | Soil | 0.074±0.006 | 7.8±0.5 | 52±7 | 749±14 | 2.1±0.1 | 0.25±0.02 | 24±2 | 0.065±0.012 | 81±4 | 70 |

Section 4 Mineral & Geology(Powder)

| | | Chemical Composition(µg/g) | | | | | | | | |
|--------------|------|----------------------------|--------------------------------|---------------------------------|-----------|-------------|------------|-------------------|------------------|------------------|
| | | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F |
| NCS DC 73023 | Soil | 38±6 | 5.0±0.2 | 25±5 | 3.0±0.3 | 12.6±0.6 | 2.3±0.2 | 1.3±0.1 | 0.66±0.05 | 219±20 |
| NCS DC 73024 | Soil | 0.78±0.05* | 10.2±0.3 | 55±2 | 6.3±0.3 | 19.5±0.5 | 4.2±0.2 | 2.4±0.2 | 1.06±0.05 | 495±40 |
| NCS DC 73026 | Soil | 4.0±0.3* | 11.3±0.4 | 43±3 | 4.2±0.2 | 28±1 | 3.8±0.3 | 2.3±0.2 | 0.95±0.04 | 524±30 |
| NCS DC 73027 | Soil | 152±12 | 11.0±0.3 | 55±5 | 5.8±0.4 | 24±1 | 4.8±0.4 | 2.8±0.3 | 1.03±0.06 | 510±31 |
| NCS DC 73028 | Soil | 0.51±0.03* | 11.6±0.3 | 57±3 | 5.5±0.2 | 18.3±0.8 | 4.6±0.1 | 2.6±0.2 | 1.30±0.03 | 419±21 |
| | | Chemical Composition(µg/g) | | | | | | | | |
| | | Ga | Gd | Ge | Hf | Hg | Ho | I | In | La |
| NCS DC 73023 | Soil | 10.8±0.5 | 2.2±0.1 | 1.11±0.08 | 3.8±0.3 | (0.007) | 0.46±0.04 | 0.52±0.13 | 0.024±0.003 | 14.0±0.3 |
| NCS DC 73024 | Soil | 13.2±0.41 | 4.4±0.2 | 1.21±0.04 | 5.8±0.3 | 0.015±0.003 | 0.84±0.06 | 1.4±0.2 | 0.043±0.005 | 30±1 |
| NCS DC 73026 | Soil | 12.9±0.7 | 3.7±0.4 | 0.99±0.06 | 4.3±0.4 | 0.008±0.002 | 0.80±0.06 | 1.4±0.4 | 0.042±0.005 | 19.4±1.4 |
| NCS DC 73027 | Soil | 15.1±0.3 | 4.7±0.4 | 1.24±0.07 | 5.5±0.2 | 0.020±0.002 | 0.98±0.09 | 0.73±0.14 | 0.049±0.005 | 26±1 |
| NCS DC 73028 | Soil | 17.4±0.5 | 5.3±0.2 | 1.28±0.07 | 7.2±0.5 | 0.020±0.002 | 0.93±0.05 | 8.6±0.7 | 0.051±0.007 | 44±2 |
| | | Chemical Composition(µg/g) | | | | | | | | |
| | | Li | Lu | Mn | Mo | N | Nb | Nd | Ni | P |
| NCS DC 73023 | Soil | 14.2±0.8 | 0.24±0.02 | 309±6 | 0.51±0.06 | (106) | 6.3±0.8 | 12.4±0.4 | 9.6±0.6 | 228±14 |
| NCS DC 73024 | Soil | 32±2 | 0.38±0.03 | 529±10 | 0.61±0.06 | 273±33 | 12.6±0.6 | 26±1 | 25±1 | 587±9 |
| NCS DC 73026 | Soil | 27±2 | 0.38±0.03 | 667±20 | 0.38±0.3 | (580) | 8.4±1.2 | 18.7±1.0 | 20±2 | 706±24 |
| NCS DC 73027 | Soil | 28±1 | 0.47±0.05 | 700±17 | 0.68±0.07 | 460±38 | 11.4±0.5 | 25±1 | 28±1 | 612±14 |
| NCS DC 73028 | Soil | 36±1 | 0.43±0.02 | 755±13 | 0.63±0.05 | 438±29 | 15.4±0.6 | 35±2 | 26±1 | 438±18 |
| | | Chemical Composition(µg/g) | | | | | | | | |
| | | Pb | Pr | Rb | Hf | Re** | S | Sb | Sc | Se |
| NCS DC 73023 | Soil | 17.4±1.1 | 3.2±0.2 | 80±3 | 3.8±0.8 | ~-0.074 | 108±14 | 0.56±0.07 | 5.1±0.5 | A.093±0.008 |
| NCS DC 73024 | Soil | 20±1 | 6.9±0.3 | 86 ±29 | 2.1±0.4 | ~-0.25 | (0.7)* | 0.88±0.05 | 9.7±0.4 | 0.12±0.02 |
| NCS DC 73026 | Soil | 3.4±1.2 | 4.7±0.2 | 63±3 | 6.7±0.8 | ~-2.1 | 2.70±0.29* | 0.59±0.03 | 12.0±0.4 | 0.90±0.10 |
| NCS DC 73027 | Soil | 17±1 | 6.4±0.5 | 85±2 | 2.7±0.5 | ~-0.24 | (167) | 1.10±0.07 | 11.2±0.3 | 0.084±0.012 |
| NCS DC 73028 | Soil | 26±2 | 9.4±0.5 | 108±4 | 7.8±0.7 | ~-0.12 | 440±42 | 0.50±0.05 | 10.4±0.3 | 0.11±0.02 |
| | | Chemical Composition(µg/g) | | | | | | | | |
| | | Sm | Sn | Sr | Ta | Tb | Nb | Te | Th | Ti* |
| NCS DC 73023 | Soil | 2.4±0.1 | 1.3±0.3 | 209±8 | 0.42±0.08 | 0.37±0.03 | 9.4 ± 07 | (0.03) | 4.3±0.3 | 0.191±0.005 |
| NCS DC 73024 | Soil | 5.0±0.2 | 2.4±0.4 | 242±5 | 0.91±0.14 | 0.74±0.04 | 5.1±0.7 | (0.03) | 9.9±0.7 | 0.32±0.01 |
| NCS DC 73026 | Soil | 4.0±0.1 | 1.8±0.4 | 435±13 | 0.57±0.08 | 0.66±0.04 | 13.6±0.8 | (0.04) | 6.2±0.4 | 0.33±0.03 |
| NCS DC 73027 | Soil | 5.1±0.2 | 2.4±0.3 | 205±5 | 0.84±0.12 | 0.80±0.05 | 9.5±0.7 | (0.05) | 8.4±0.8 | 0.37±0.02 |
| NCS DC 73028 | Soil | 6.1±0.3 | 2.6±0.2 | 202±7 | 1.1±0.2 | 0.85±0.03 | 15.3±0.8 | (0.04) | 11.7±0.9 | 0.38±0.01 |
| | | Chemical Composition(µg/g) | | | | | | | | |
| | | Ti | Tm | U | V | W | Y | Yb | Zn | Zr |
| NCS DC 73023 | Soil | 0.51±0.04 | 0.23±0.02 | 1.2±0.1 | 40±4 | 0.7±0.1 | 12.7±0.8 | 1.5±0.1 | 29±2 | 134±5 |
| NCS DC 73024 | Soil | 0.55±0.02 | 0.39±0.03 | 2.3±0.2 | 66±5 | 1.6±0.1 | 23±2 | 2.5±0.2 | 63±2 | 204±6 |
| NCS DC 73026 | Soil | 0.37±0.04 | 0.38±0.03 | 5.4±0.5 | 82±7 | 0.9±0.2 | 22±3 | 2.4±0.3 | 61±2 | 153±18 |
| NCS DC 73027 | Soil | 0.51±0.05 | 0.47±0.04 | 2.0±0.1 | 75±3 | 1.5±0.1 | 27±2 | 3.0±0.3 | 66±3 | 190±12 |
| NCS DC 73028 | Soil | 0.61±0.05 | 0.43±0.02 | 1.9±0.2 | 69±3 | 1.5±0.1 | 25±1 | 2.8±0.2 | 59±2 | 255±13 |
| | | Chemical Composition(%) | | | | | | | | |
| | | SiO ₂ | Al ₂ O ₃ | TFe ₂ O ₃ | FeO | MgO | CaO | Na ₂ O | K ₂ O | H ₂ O |
| NCS DC 73023 | Soil | 78.30±0.33 | 9.65±0.09 | 2.07±0.03 | (0.5) | 0.78±0.08 | 1.83±0.05 | 2.31±0.04 | 2.56±0.03 | (1.2) |
| NCS DC 73024 | Soil | 60.40±0.26 | 10.56±0.05 | 3.63±0.05 | (1.1) | 2.58±0.07 | 6.80±0.10 | 3.05±0.09 | 2.11±0.02 | (2.7) |
| NCS DC 73026 | Soil | 47.28±0.13 | 10.39±0.10 | 4.12±0.07 | (0.6) | 2.98±0.13 | 6.48±0.10 | 8.99±0.26 | 1.99±0.05 | (3.2) |
| NCS DC 73027 | Soil | 60.30±0.41 | 11.96±0.09 | 4.07±0.06 | (1.1) | 2.04±0.04 | 7.40±0.09 | 2.02±0.04 | 2.43±0.04 | (3.4) |
| NCS DC 73028 | Soil | 68.23±0.27 | 13.89±0.17 | 4.06±0.05 | (0.6) | 1.47±0.06 | 1.09±0.04 | 2.84±0.10 | 2.97±0.04 | (3.4) |
| | | Chemical Composition(%) | | | | | | | | |
| | | CO ₂ | Corg | TC | | | | | | |
| NCS DC 73023 | Soil | 0.76±0.13 | (0.1) | (0.3) | | | | | | |
| NCS DC 73024 | Soil | 4.54±0.42 | 0.25±0.05 | (1.4) | | | | | | |
| NCS DC 73026 | Soil | (2.2) | (0.4) | 1.03±0.04 | | | | | | |
| NCS DC 73027 | Soil | 4.79±0.25 | 0.34±0.02 | 1.71±0.10 | | | | | | |
| NCS DC 73028 | Soil | (0.2) | (0.3)** | (0.4) | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(µg/g) | | | | | | | | | Unit Size (in g) |
|--------------|------|----------------------------|-----------|-----------|-----------|-------------|-----------|-----------|-------------|---------|---------------------|
| | | Ag | As | B | Ba | Be | Bi | Br | Cd | Ce | |
| NCS DC 73029 | Soil | 0.069±0.005 | 11.8±0.9 | 77±8 | 441±113 | 2.3±0.1 | 0.44±0.03 | 26±3 | 0.15±0.02 | 78±5 | 70 |
| NCS DC 73030 | Soil | 0.092±0.013 | 15.8±0.9 | 83±7 | 40±9 | 2.7±0.2 | 0.98±0.03 | 24±2 | 0.106±0.07 | 89±3 | 70 |
| NCS DC 73031 | Soil | 0.070±0.008 | 12.9±0.5 | 54±6 | 495±16 | 1.9±0.1 | 0.32±0.01 | 2.6±0.3 | 0.175±0.010 | 71±3 | 70 |
| NCS DC 73032 | Soil | 0.070±0.004 | 8.9±0.5 | 52±8 | 504±17 | 1.9±0.1 | 0.28±0.01 | 3.0±0.4 | 0.14±0.01 | 70±5 | 70 |
| NCS DC 73033 | Soil | 0.14±0.01 | 13.3±1.1 | 64±7 | 496±15 | 2.3±0.1 | 0.79±0.02 | 1.9±0.2 | 0.59±0.04 | 82±4 | 70 |
| | | Chemical Composition(µg/g) | | | | | | | | | |
| | | Cl | Co | Cr | Cs | Cu | Dy | Er | Eu | F | |
| NCS DC 73029 | Soil | 0.63±0.06* | 16.0±0.6 | 82±4 | 9.3±0.5 | 32±1 | 5.4±0.3 | 3.0±0.1 | 1.4±0.1 | 665±54 | |
| NCS DC 73030 | Soil | 0.48±0.03* | 12.4±0.4 | 62±2 | 9.8±0.2 | 28±1 | 6.1±0.2 | 3.5±0.4 | 1.25±0.04 | 524±40 | |
| NCS DC 73031 | Soil | 61±5 | 12.0±0.51 | 66±4 | 7.2±0.3 | 23.6±1.0 | 5.0±0.4 | 2.8±0.3 | 1.20±0.06 | 561±43 | |
| NCS DC 73032 | Soil | 75±9 | 1.2±0.5 | 61±3 | 6.0±0.4 | 19.1±0.6 | 4.9±0.3 | 2.8±0.3 | 1.21±0.06 | 551±26 | |
| NCS DC 73033 | Soil | 71±9 | 19.0±0.6 | 92±4 | 7.7±0.5 | 54±2 | 5.7±0.2 | 3.2±0.2 | 150±0.05 | 650±40 | |
| | | Chemical Composition(µg/g) | | | | | | | | | |
| | | Ga | Gd | Ge | Hf | Hg | Ho | I | In | La | |
| NCS DC 73029 | Soil | 18.5±0.4 | 5.8±0.2 | 1.40±0.08 | 6.1±0.4 | 0.058±0.005 | 1.08±0.10 | 6.1±0.7 | 0.066±0.005 | 42±2 | |
| NCS DC 73030 | Soil | 18.3±0.6 | 6.3±0.2 | 1.52±0.09 | 10.6±0.5 | 0.075±0.007 | 1.22±0.09 | 6.4±0.5 | 0.088±0.010 | 44±1 | |
| NCS DC 73031 | Soil | 14.9±0.4 | 5.3±0.3 | 1.31±0.04 | 7.0±0.7 | 0.043±0.003 | 1.02±0.08 | 1.5±0.2 | 0.049±0.005 | 35±1 | |
| NCS DC 73032 | Soil | 14.8±0.5 | 5.3±0.3 | 1.30±0.08 | 7.6±0.2 | 0.030±0.003 | 0.99±0.08 | 1.1±0.2 | 0.045±0.006 | 36±2 | |
| NCS DC 73033 | Soil | 17.9±0.6 | 6.2±0.3 | 1.47±0.08 | 7.1±0.4 | 0.116±0.012 | 1.13±0.07 | 1.0±0.2 | 0.089±0.007 | 43±1 | |
| | | Chemical Composition(µg/g) | | | | | | | | | |
| | | Li | Lu | Mn | Mo | N | Nb | Nd | Ni | P | |
| NCS DC 73029 | Soil | 50±1 | 0.48±0.02 | 882±18 | 0.65±0.06 | 600±50 | 17.4±0.7 | 36±2 | 38±1 | 675±21 | |
| NCS DC 73030 | Soil | 55±3 | 0.59±0.05 | 717±13 | 1.1±0.1 | 617±44 | 19.2±1.0 | 38±2 | 24±1 | 414±14 | |
| NCS DC 73031 | Soil | 32±2 | 0.45±0.04 | 632±21 | 0.72±0.07 | 696±39 | 14.2±0.5 | 31±1 | 30±1 | 857±39 | |
| NCS DC 73032 | Soil | 31±2 | 0.45±0.03 | 561±23 | 0.47±0.06 | 878±77 | 14.9±0.7 | 34±2 | 26±1 | 846±50 | |
| NCS DC 73033 | Soil | 41±2 | 0.50±0.02 | 956±37 | 0.84±0.11 | 850±94 | 20±1 | 44±2 | 43±2 | 778±41 | |
| | | Chemical Composition(µg/g) | | | | | | | | | |
| | | Pb | Pr | Rb | Re** | S | Sb | Sc | Se | Sm | |
| NCS DC 73029 | Soil | 28±1 | 9.3±0.4 | 123±5 | ~0.17 | (420) | 0.77±0.05 | 13.8±0.6 | 0.13±0.02 | 6.6±0.3 | |
| NCS DC 73030 | Soil | 40±2 | 9.8±0.4 | 139±5 | ~0.45 | 0.20±0.03* | 1.05±0.05 | 11.7±0.4 | 0.20±0.03 | 7.1±0.2 | |
| NCS DC 73031 | Soil | 22±1 | 8.0±0.5 | 95±2 | ~0.08 | 170±22 | 1.13±0.05 | 11.6±0.4 | 0.124±0.017 | 5.8±0.3 | |
| NCS DC 73032 | Soil | 21±2 | 8.2±0.6 | 91±4 | ~0.1 | 162±10 | 0.86±0.06 | 10.6±0.3 | 0.14±0.02 | 5.8±0.3 | |
| NCS DC 73033 | Soil | 41±2 | 9.8±0.8 | 105±3 | ~0.39 | 254±12 | 1.21±0.04 | 14.2±0.4 | 0.29±0.04 | 6.9±0.3 | |
| | | Chemical Composition(µg/g) | | | | | | | | | |
| | | Sn | Sr | Ta | Tb | Te | Th | Ti* | Tl | | |
| NCS DC 73029 | Soil | 3.4±0.3 | 154±5 | 1.3±0.2 | 0.93±0.05 | (0.06) | 13.5±0.8 | 0.50±0.02 | 0.71±0.06 | | |
| NCS DC 73030 | Soil | 6.2±0.6 | 55±3 | 1.96±0.19 | 1.08±0.06 | (0.06) | 20.6±0.9 | 0.45±0.01 | 0.86±0.06 | | |
| NCS DC 73031 | Soil | 2.9±0.4 | 192±6 | 1.10±0.12 | 0.86±0.06 | (0.05) | 11.5±0.6 | 0.39±0.02 | 0.59±0.06 | | |
| NCS DC 73032 | Soil | 2.8±0.2 | 184±7 | 1.12±0.14 | 0.86±0.05 | (0.04) | 11.3±0.7 | 0.41±0.02 | 0.57±0.03 | | |
| NCS DC 73033 | Soil | 4.0±0.4 | 146±6 | 1.49±0.14 | 1.00±0.04 | (0.1) | 13.2±0.5 | 0.64±0.02 | 0.67±0.07 | | |

Section 4 Mineral & Geology(Powder)

| | | Chemical Composition(µg/g) | | | | | | | | |
|--------------|------|----------------------------|--------------------------------|---------------------------------|-----------|-----------|-----------|-------------------|------------------|-------------------|
| | | Tm | U | V | W | Y | Yb | Zn | Zr | |
| NCS DC 73023 | Soil | 0.49±0.01 | 2.6±0.1 | 104±4 | 2.1±0.2 | 29±23 | 3.1±0.2 | 97±3 | 210±19 | |
| NCS DC 73024 | Soil | 0.59±0.05 | 4.0±0.2 | 87±4 | 4.1±0.2 | 3±2 | 3.8±0.3 | 81±2 | 342±11 | |
| NCS DC 73026 | Soil | 0.46±0.04 | 2.4±0.1 | 77±4 | 8.3±0.5 | 27±2 | 3.3±0.3 | 66±26 | 254±15 | |
| NCS DC 73027 | Soil | 0.47±0.03 | 2.3±0.1 | 72±4 | (9.2) | 27 ±2 | 3.9±0.4 | 2±2 | 277±21 | |
| NCS DC 73028 | Soil | 0.51±0.03 | 2.9±0.1 | 120±6 | (45) | 31±2 | 5.8±0.5 | 127±4 | 262±9 | |
| | | Chemical Composition(%) | | | | | | | | |
| | | SiO ₂ | Al ₂ O ₃ | TFe ₂ O ₃ | FeO | MgO | CaO | Na ₂ O | K ₂ O | H ₂ O+ |
| NCS DC 73023 | Soil | 59.80±0.22 | 13.92±0.15 | 5.54±0.08 | (1.5) | 2.61±0.06 | 4.21±0.08 | 1.91±0.04 | 2.64±0.03 | (4.2) |
| NCS DC 73024 | Soil | 69.11±0.34 | 13.58±0.19 | 4.97±0.08 | (0.8) | 1.16±0.04 | 0.34±0.02 | 0.83±0.03 | 2.48±0.04 | (5.1) |
| NCS DC 73026 | Soil | 60.93±0.25 | 11.76±0.13 | 4.30±0.07 | (1.3) | 1.99±0.05 | 7.18±0.10 | 1.74±0.03 | 2.28±0.02 | (3.2) |
| NCS DC 73027 | Soil | 66.15±0.40 | 11.73±0.19 | 4.00±0.08 | 1.20±0.16 | 1.87±0.06 | 4.59±0.07 | 1.90±0.03 | 2.18±0.04 | (3.2) |
| NCS DC 73028 | Soil | 58.87±0.65 | 13.15±0.16 | 6.12±0.09 | (1.7) | 2.75±0.08 | 4.91±0.07 | 1.22±0.03 | 2.37±0.04 | (4.2) |
| | | Chemical Composition(%) | | | | | | | | |
| | | CO ₂ | Corg | TC | | | | | | |
| NCS DC 73023 | Soil | (3) | (0.5) | 1.28±0.13 | | | | | | |
| NCS DC 73024 | Soil | (0.2) | (0.5)** | (0.6) | | | | | | |
| NCS DC 73026 | Soil | 4.72±0.33 | 0.58±0.05 | (1.9) | | | | | | |
| NCS DC 73027 | Soil | (2.9) | 0.73±0.06 | 1.52±0.15 | | | | | | |
| NCS DC 73028 | Soil | (4) | (0.9) | 1.94±0.10 | | | | | | |

Note: Value with* is in 10-2, with** is in 10-9, value in () is reference value, value with is ~information value.

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
|--------------|------|-------------------------------|--------------------------------|---------|---------|--------|-------------------|------------------|-------------------|-----------------|---|--------|---------------------|---------|------|
| | | SiO ₂ | Al ₂ O ₃ | FeO | MgO | CaO | Na ₂ O | K ₂ O | H ₂ O* | CO ₂ | TE (Fe ₂ O ₃) | F | | | |
| NCS DC 73301 | Rock | 72.83 | 13.40 | (1.03) | 0.42 | 1.55 | 3.13 | 5.01 | (0.61) | (0.15) | 2.14 | 0.235 | | | 70 |
| NCS DC 73302 | Rock | 60.62 | 16.17 | (2.43) | 1.72 | 5.20 | 3.86 | 1.89 | (1.54) | (3.46) | 4.90 | 0.0280 | | | 70 |
| NCS DC 73303 | Rock | 44.64 | 13.83 | (7.60) | 7.77 | 8.81 | 3.38 | 2.32 | (2.88) | (0.17) | 13.40 | 0.0700 | | | 70 |
| NCS DC 73304 | Rock | 90.36 | 3.52 | (0.62) | 0.082 | 0.30 | 0.061 | 0.65 | (0.99) | (0.18) | 3.22 | 0.0183 | | | 70 |
| NCS DC 73305 | Rock | 59.23 | 18.82 | (1.38) | 2.01 | 0.60 | 0.35 | 4.16 | (5.6) | (0.077) | 7.60 | 0.129 | | | 70 |
| NCS DC 73306 | Rock | 15.60 | 5.03 | (1.64) | 5.19 | 35.67 | (0.081) | 0.78 | (2.20) | (32.44) | 2.52 | 0.0406 | | | 70 |
| | | org-C | LOI | P | Ti | | | | | | | | | | |
| NCS DC 73301 | Rock | | (0.69) | 0.0405 | 0.172 | | | | | | | | | | |
| NCS DC 73302 | Rock | | (4.44) | 0.1030 | 0.309 | | | | | | | | | | |
| NCS DC 73303 | Rock | | (2.24) | 0.413 | 1.420 | | | | | | | | | | |
| NCS DC 73304 | Rock | | (0.04) | (1.10) | 0.0970 | 0.158 | | | | | | | | | |
| NCS DC 73305 | Rock | | (0.15) | (5.95) | 0.0690 | 0.395 | | | | | | | | | |
| NCS DC 73306 | Rock | | (0.12) | (34.14) | 0.0226 | 0.196 | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | |
| | | Ta | Te | Th | Ti | U | Ag | As | W | B | Ba | Cu | Zr | Ga | Ge |
| NCS DC 73301 | Rock | 7.2 | 0.021 | 54 | 1.93 | 18.8 | 0.033 | 2.1 | 8.4 | 24 | 343 | 3.2 | 167 | 19 | 2.0 |
| NCS DC 73302 | Rock | (0.46) | 0.017 | 2.6 | (0.16) | 0.90 | 0.071 | 2.1 | (0.47) | 4.7 | 1020 | 55.4 | 99 | 18.1 | 0.93 |
| NCS DC 73303 | Rock | 4.3 | (0.022) | 6.0 | (0.12) | 1.40 | 0.040 | (0.79) | (0.44) | 3.5 | 527 | 48.6 | 277 | 24.8 | 0.98 |
| NCS DC 73304 | Rock | (0.42) | 0.038 | 7.0 | (0.36) | 2.1 | 0.062 | 9.1 | 1.16 | 34 | 143 | 19.0 | 214 | 5.3 | 1.16 |
| NCS DC 73305 | Rock | (1.0) | (0.022) | 12.8 | 0.71 | 1.5 | 0.047 | 1.4 | 0.79 | 154 | 450 | 42 | 96 | 25.6 | 3.1 |
| NCS DC 73306 | Rock | (0.46) | (0.023) | 4.1 | (0.36) | 1.9 | 0.043 | 4.7 | 0.67 | 16 | 120 | 23.4 | 62 | 7.1 | 0.67 |
| | | Hg | Li | Pb | Sc | Sr | Zn | Mn | Cd | Sb | Ce | Dy | Eu | V | Gd |
| NCS DC 73301 | Rock | (4.3)* | 131 | 31 | 6.1 | 106 | 28 | 463 | (0.032) | 0.21 | 108 | 10.2 | 0.85 | 24 | 9.3 |
| NCS DC 73302 | Rock | 12* | 18.3 | 11.3 | 9.5 | 790 | 71 | 604 | 0.061 | 0.12 | 40 | 1.85 | 1.02 | 94.5 | 2.7 |
| NCS DC 73303 | Rock | (6.4)* | 9.5 | 7.2 | 15.2 | 1100 | 150 | 1310 | 0.067 | 0.083 | 105 | 5.6 | 3.2 | 167 | 8.5 |
| NCS DC 73304 | Rock | (8.4)* | 11.1 | 7.6 | 4.2 | 58 | 20 | 155 | 0.060 | 0.60 | 48 | 4.1 | 1.02 | 33.4 | 4.5 |
| NCS DC 73305 | Rock | 9.7* | 44 | 8.7 | 18.5 | 90 | 55 | 173 | (0.003) | 0.17 | 109 | 5.1 | 1.7 | 87 | 6.7 |
| NCS DC 73306 | Rock | 16 | 20.5 | 18.3 | 6.0 | 913 | 52 | 434 | 0.069 | 0.43 | 25.4 | 1.6 | 0.51 | 36 | 1.9 |
| | | Ho | La | Lu | Nd | Sm | Tb | Tm | Yb | Er | Pr | Y | Be | Bi | CO |
| NCS DC 73301 | Rock | 2.05 | 54 | 1.15 | 47 | 12.5 | 1.65 | 1.06 | 7.4 | 6.5 | 12.7 | 62 | 12.4 | 0.53 | 3.4 |
| NCS DC 73302 | Rock | 0.34 | 21.8 | 0.12 | 19 | 0.79 | 0.41 | (0.15) | 0.89 | 0.85 | 4.9 | 9.3 | 1.1 | 0.081 | 13.2 |
| NCS DC 73303 | Rock | 0.88 | 56 | 0.19 | 54 | 2.0 | 1.2 | 0.28 | 1.5 | 2.0 | 13.2 | 22 | 2.5 | (0.045) | 46.5 |
| NCS DC 73304 | Rock | 0.75 | 21 | 0.30 | 21 | 1.1 | 0.79 | 0.32 | 1.92 | 2.0 | 5.4 | 21.5 | 0.97 | (0.18) | 6.4 |
| NCS DC 73305 | Rock | 0.98 | 62 | 0.41 | 48 | 2.0 | 1.02 | 0.43 | 2.6 | 2.7 | 13.6 | 26 | 3.0 | 0.23 | 21 |
| NCS DC 73306 | Rock | 0.33 | 14.6 | 0.14 | 12.0 | (0.98) | 0.35 | 0.17 | 0.90 | (1.1) | 3.4 | 9.1 | 0.8 | 0.16 | 9.0 |
| | | Cr | Cs | Hf | In | Mo | Nb | Ni | Rb | Se | Cl | | | | |
| NCS DC 73301 | Rock | (5.0) | 38.4 | 6.3 | (0.02) | 3.5 | 40 | 2.3 | 466 | (0.059) | 127 | | | | |
| NCS DC 73302 | Rock | 32.4 | 2.3 | 2.9 | (0.033) | 0.54 | 6.8 | 17 | 37.6 | (0.063) | (42) | | | | |
| NCS DC 73303 | Rock | 134 | (1.2) | 6.5 | (0.063) | 0.26 | 68 | 140 | 37 | (0.086) | 114 | | | | |
| NCS DC 73304 | Rock | 20 | 1.8 | 6.6 | (0.026) | 0.76 | 5.9 | 16.6 | 29 | (0.098) | (42) | | | | |
| NCS DC 73305 | Rock | 99 | 14 | 2.9 | (0.082) | 0.35 | 14.3 | 36.8 | 205 | (0.084) | (40) | | | | |
| NCS DC 73306 | Rock | 32 | 3.2 | 1.8 | (0.042) | 0.38 | 6.6 | 17.8 | 32 | (0.099) | (80) | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | |
|--------------|--------------------|-------------------------------|--------------------------------|--------|-------|------|--------|-------------------|------------------|-------------------------------|-----------------|--------|-----------------------------------|---------------------|------|--|
| | | SO ₂ | Al ₂ O ₃ | FeO | MgO | CaO | Mn | Na ₂ O | K ₂ O | H ₂ O ⁺ | CO ₂ | S | (Fe ₂ O ₃) | | | |
| NCS DC73307 | Stream Sediment | 64.89 | 10.58 | (1.52) | 2.39 | 5.35 | 0.620 | 1.44 | 1.99 | (2.93) | (4.19) | 0.0150 | 4.86 | 70 | | |
| NCS DC73309 | Stream Sediment | 76.25 | 10.37 | (0.34) | 0.62 | 0.47 | 0.249 | 0.46 | 3.28 | (2.66) | (0.09) | 0.0170 | 4.39 | 70 | | |
| | | org.C | LOI | P | Ti | | | | | | | | | | | |
| NCS DC73307 | Stream Sediment | (0.47) | (7.21) | 0.0670 | 0.550 | | | | | | | | | | | |
| NCS DC73309 | Stream Sediment | (0.24) | (3.02) | 0.0255 | 0.210 | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | | |
| | | Ta | Te | Th | Ti | U | Ag | As | Au | B | Ba | Cu | F | Ga | Ge | |
| NCS DC73307 | Stream Sediment | 1.3 | (0.04) | 12.4 | 0.49 | 2.6 | 0.089 | 8.4 | (1.3)* | 54 | 430 | 32.1 | 494 | 14.0 | 1.28 | |
| NCS DC73309 | Stream Sediment | 5.7 | (0.38) | 23.3 | 2.9 | 9.1 | 3.2 | 188 | (3.6)* | 68 | 260 | 78.6 | 1650 | 18.5 | 1.81 | |
| | | Hg | Li | Pb | Sc | Sr | Zn | Br | Cd | Sb | Ce | Dy | Eu | V | W | |
| NCS DC 73307 | Stream Sediment | 83 | 30 | 23 | 11.1 | 166 | 78 | (1.5) | 0.26 | 0.81 | 78 | 5.1 | 1.33 | 97 | 1.76 | |
| NCS DC 73309 | Stream Sediment | 72* | 70.6 | 636 | 7.4 | 29 | 373 | (2.3) | 2.3 | 14.9 | 58 | 7.2 | 0.60 | 46.8 | 126 | |
| | | Zr | Gd | Ho | La | Lu | Nd | Sm | Tb | Tm | Yb | Er | Pr | Y | Be | |
| NCS DC 73307 | Stream Sediment | 370 | 5.5 | 0.96 | 40 | 0.45 | 34 | 6.3 | 0.87 | 0.44 | 2.8 | 2.8 | 9.2 | 26.6 | 1.8 | |
| NCS DC 73309 | Stream Sediment | 153 | 5.9 | 1.4 | 30 | 0.78 | 27 | 6.2 | 1.13 | 0.74 | 5.1 | 4.6 | 7.4 | 42.7 | 26 | |
| | | Bi | Co | Cr | Cs | Hf | I | In | Mo | Nb | Ni | Rb | Se | Sn | Cl | |
| NCS DC 73307 | Stream Sediment | 4.2 | 14.4 | 85 | 5.1 | 9.7 | (0.61) | 0.056 | 0.64 | 17.7 | 32.3 | 80 | 0.16 | 2.6 | (50) | |
| NCS DC 73309 | Stream Sediment | 50 | 8.5 | 40 | 17.4 | 5.4 | 2.0 | 1.86 | 5.9 | 25 | 14.3 | 408 | 0.20 | 370 | 290 | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | Unit Size (in g) | | |
| | | Ag | As | B | Ba | Cu | Li | Pb | Sr | Zn | Cd | Sb | Ce | | Zr | |
| NCS DC 73327 | Synthetic Silicate | (0.034) | 2.0 | 2.1 | 24 | 2.0 | 15 | 2.5 | 5.0 | 3.0 | 0.022 | 0.28 | | 2.2 | 70 | |
| NCS DC 73328 | Synthetic Silicate | 0.064 | 5.0 | 5.1 | 54 | 5.0 | 18 | 5.5 | 8.0 | 6.0 | 0.052 | 0.58 | 2.0 | 5.2 | 70 | |
| NCS DC 73329 | Synthetic Silicate | 0.11 | 10 | 10.0 | 104 | 10.0 | 23 | 10.5 | 13 | 11.0 | 0.10 | 1.1 | 5.0 | 10.2 | 70 | |
| NCS DC 73330 | Synthetic Silicate | 0.21 | 20 | 20 | 204 | 20.0 | 33 | 20.5 | 23 | 21 | 0.20 | 2.1 | 10.0 | 20 | 70 | |
| NCS DC 73331 | Synthetic Silicate | 0.51 | 50 | 50 | 504 | 50 | 63 | 50 | 53 | 51 | 0.50 | 5.1 | 20 | 50 | 70 | |
| | | La | Yb | Y | Co | Cr | Mo | Nb | Ni | Bi | Sn | V | W | Be | | |
| NCS DC 73327 | Synthetic Silicate | 2.1 | 0.2 | 2.0 | 2.6 | 2.3 | 0.21 | 2.3 | 2.6 | 0.31 | 0.28 | 2.8 | 0.20 | 0.26 | | |
| NCS DC 73328 | Synthetic Silicate | 5.1 | 0.50 | 5.0 | 5.6 | 5.3 | 0.51 | 5.3 | 5.6 | 0.61 | 0.58 | 5.8 | 0.50 | 0.56 | | |
| NCS DC 73329 | Synthetic Silicate | 10 | 1.0 | 10 | 10.6 | 10.3 | 1.0 | 10.3 | 10.6 | 1.1 | 1.1 | 10.8 | 1.0 | 1.1 | | |
| NCS DC 73330 | Synthetic Silicate | 20 | 2.0 | 20 | 20.6 | 20.3 | 2.0 | 20.3 | 20.6 | 2.1 | 2.1 | 20.8 | 2.0 | 2.1 | | |
| NCS DC 73331 | Synthetic Silicate | 50 | 5.0 | 50 | 50.6 | 50 | 5.0 | 50 | 50.6 | 5.1 | 5.1 | 51 | 5.0 | 5.1 | | |
| | | Mn | Ti | | | | | | | | | | | | | |
| NCS DC 73327 | Synthetic Silicate | 27 | 24 | | | | | | | | | | | | | |
| NCS DC 73328 | Synthetic Silicate | 57 | 54 | | | | | | | | | | | | | |
| NCS DC 73329 | Synthetic Silicate | 107 | 104 | | | | | | | | | | | | | |
| NCS DC 73330 | Synthetic Silicate | 207 | 204 | | | | | | | | | | | | | |
| NCS DC 73331 | Synthetic Silicate | 507 | 504 | | | | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) | |
|--------------------------------|---------------------|----------------------------|--------|--------|--------|--------|------|--------|--------|--------|------|---------|------|------|---------------------|--|
| | | Ag | As | B | Ba | Cu | Li | Pb | Sr | Zn | Cd | Sb | Ce | Zr | | |
| NCS DC73332 | Synthetic Silicate | 1.0 | 100 | 100 | 1000 | 100 | 113 | 100 | 103 | 101 | 1.0 | 10 | 100 | 100 | 70 | |
| NCS DC73333 | Synthetic Silicate | 2.0 | 200 | 200 | 2000 | 200 | 213 | 200 | 203 | 200 | 2.0 | 20 | 200 | 200 | 70 | |
| NCS DC73334 | Synthetic Silicate | 5.0 | 500 | 500 | 0.500* | 500 | 513 | 500 | 500 | 500 | 5.0 | 50 | 500 | 500 | 70 | |
| NCS DC73335 | Synthetic Silicate | 10 | | 1000 | 1.000* | 1000 | 1010 | 1000 | 1000 | 1000 | 10 | 100 | 1000 | 1000 | 70 | |
| NCS DC73336 | Synthetic Silicate | 20 | | | | 2000 | | 2000 | 2000 | 2000 | 20 | 200 | | | 70 | |
| NCS DC73337 | Synthetic Silicate | 50 | | | | 0.500* | | 0.500* | 0.500* | 0.500* | 50 | 500 | | | 70 | |
| | | La | Yb | Y | Bi | Sn | Be | Mo | W | Nb | Co | Ni | Cr | V | | |
| NCS DC73332 | Synthetic Silicate | 100 | 10 | 100 | 10 | 10 | 10 | 10 | 10 | 100 | 101 | 101 | 100 | 101 | | |
| NCS DC73333 | Synthetic Silicate | 200 | 20 | 200 | 20 | 20 | 20 | 20 | 20 | 200 | 200 | 200 | 200 | 200 | | |
| NCS DC73334 | Synthetic Silicate | 500 | 50 | 500 | 50 | 50 | 50 | 50 | 50 | 500 | 500 | 500 | 500 | 500 | | |
| NCS DC73335 | Synthetic Silicate | | 100 | | 100 | 100 | 100 | 100 | 100 | | | | 1000 | 1000 | | |
| | | Mn | Ti | | | | | | | | | | | | | |
| NCS DC73332 | Synthetic Silicate | 1000 | 1000 | | | | | | | | | | | | | |
| NCS DC73333 | Synthetic Silicate | 2000 | 2000 | | | | | | | | | | | | | |
| NCS DC73334 | Synthetic Silicate | 0.500* | 0.500* | | | | | | | | | | | | | |
| NCS DC73335 | Synthetic Silicate | 1.000* | 1.000* | | | | | | | | | | | | | |
| NCS DC73336 | Synthetic Silicate | | 2.000* | | | | | | | | | | | | | |
| * Chemical Composition:Percent | | | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) | |
| | | Ag | As | B | Ba | Cu | Ga | Li | Pb | Sr | Zn | Cd | Sb | Ce | | |
| NCS DC73338 | Synthetic Limestone | (0.03) | 2.2 | 2.2 | 24 | 2.2 | 2.8 | 3.2 | 2.4 | 170 | 3.0 | (0.023) | 0.21 | 2.8 | 70 | |
| NCS DC73339 | Synthetic Limestone | 0.060 | 5.2 | 5.2 | 54 | 5.2 | 5.8 | 6.2 | 5.4 | 200 | 6.0 | 0.053 | 0.51 | 5.8 | 70 | |
| NCS DC73340 | Synthetic Limestone | 0.11 | 10.2 | 10 | 104 | 10.2 | 10.8 | 11.2 | 10.4 | 250 | 11 | 0.1 | 1.0 | 11 | 70 | |
| NCS DC73341 | Synthetic Limestone | 0.21 | 20 | 20 | 204 | 20 | 20.8 | 21 | 20.4 | 350 | 21 | 0.2 | 2.0 | 21 | 70 | |
| NCS DC73342 | Synthetic Limestone | 0.51 | 50 | 50 | 504 | 50 | 5.1 | 51 | 50 | 650 | 51 | 0.5 | 5.0 | 51 | 70 | |
| NCS DC73343 | Synthetic Limestone | 1.0 | 100 | 100 | 1000 | 100 | 101 | 101 | 100 | 1150 | 101 | 1 | 10 | 101 | 70 | |
| NCS DC73344 | Synthetic Limestone | 2.0 | 200 | 200 | 0.200* | 200 | 200 | 200 | 200 | 0.215* | 200 | 2 | 20 | 200 | 70 | |
| NCS DC73345 | Synthetic Limestone | 5.0 | 500 | 500 | 0.500* | 500 | | 500 | 500 | 0.515* | 500 | 5 | 50 | 500 | 70 | |
| NCS DC73346 | Synthetic Limestone | 10 | | | | 1000 | | | 1000 | | 1000 | 10 | 100 | | 70 | |
| | | Zr | Ti | Mn | | | | | | | | | | | | |
| NCS DC73338 | Synthetic Limestone | 4.0 | 31 | 37 | | | | | | | | | | | | |
| NCS DC73339 | Synthetic Limestone | 7.0 | 61 | 67 | | | | | | | | | | | | |
| NCS DC73340 | Synthetic Limestone | 12 | 111 | 117 | | | | | | | | | | | | |
| NCS DC73341 | Synthetic Limestone | 22 | 210 | 217 | | | | | | | | | | | | |
| NCS DC73342 | Synthetic Limestone | 52 | 510 | 517 | | | | | | | | | | | | |
| NCS DC73343 | Synthetic Limestone | 102 | 1010 | 1020 | | | | | | | | | | | | |
| NCS DC73344 | Synthetic Limestone | 202 | 2010 | 2020 | | | | | | | | | | | | |
| NCS DC73345 | Synthetic Limestone | 500 | 0.500* | 0.500* | | | | | | | | | | | | |
| NCS DC73346 | Synthetic Limestone | | | 1.000* | | | | | | | | | | | | |
| * Chemical Composition:Percent | | | | | | | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition | | | | | | | | | | Unit Size (in g) | | | |
|---------------|-----------------------------|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|------|-----|--------|
| | | Ag(10 ⁻⁹) | Al(10 ⁻²) | As(10 ⁻⁶) | B(10 ⁻⁶) | Ba(10 ⁻⁶) | Be(10 ⁻⁹) | Bi(10 ⁻⁹) | Br(10 ⁻⁶) | Ca(10 ⁻²) | Cd(10 ⁻⁹) | | | | |
| NCS DC 73347a | Human hair | (50) | (2) | (0.28) | 2.9 | 11.4 | 110 | 21 | (1.1) | 0.145 | 0.07 | 6 | | | |
| NCS DC 73347a | Human hair | Ce(10 ⁻⁶) | Cl(10 ⁻²) | Co(10 ⁻⁶) | Cr(10 ⁻⁶) | Cs(10 ⁻⁶) | Cu(10 ⁻⁶) | Dy(10 ⁻⁹) | Er(10 ⁻⁹) | Eu(10 ⁻⁹) | F(10 ⁻⁶) | | | | |
| | | (0.35) | (0.018) | 0.045 | 0.41 | (0.003) | 14.3 | 20 | 14 | 3.7 | (11) | | | | |
| NCS DC 73347a | Human hair | Fe(10 ⁻⁶) | Gd(10 ⁻⁹) | Ge(10 ⁻⁹) | Hf(10 ⁻⁶) | Hg(10 ⁻⁹) | Ho(10 ⁻⁹) | I(10 ⁻⁶) | K(10 ⁻²) | La(10 ⁻⁶) | Li(10 ⁻⁶) | | | | |
| | | 36 | 20 | | (0.6) | 670 | 4.6 | 0.8 | (0.002) | 0.16 | (1.6) | | | | |
| NCS DC 73347a | Human hair | Lu(10 ⁻⁹) | Mg(10 ⁻²) | Mn(10 ⁻⁶) | Mo(10 ⁻⁶) | N(10 ⁻²) | Na(10 ⁻⁶) | Nd(10 ⁻⁶) | Ni(10 ⁻⁶) | P(10 ⁻²) | Pb(10 ⁻⁶) | | | | |
| | | (2.8) | (0.014) | 2 | 0.17 | 13.9 | 0.0089 | 0.093 | 0.43 | 0.014 | 5.7 | | | | |
| NCS DC 73347a | Human hair | Pr(10 ⁻⁹) | Rb(10 ⁻⁶) | S(10 ⁻²) | Sb(10 ⁻⁶) | Sc(10 ⁻⁶) | Se(10 ⁻⁶) | Si(10 ⁻²) | Sm(10 ⁻⁹) | Sn(10 ⁻⁶) | Sr(10 ⁻⁶) | | | | |
| | | 25 | (0.06) | 4.19 | (0.065) | (0.018) | 0.58 | (0.06) | 19 | (0.2) | 7.7 | | | | |
| NCS DC 73347a | Human hair | Tb(10 ⁻⁹) | Th(10 ⁻⁶) | Tl(10 ⁻⁶) | Ti(10 ⁻⁹) | Tm(10 ⁻⁹) | U(10 ⁻⁹) | V(10 ⁻⁶) | Y(10 ⁻⁶) | Yb(10 ⁻⁹) | Zn(10 ⁻⁶) | | | | |
| | | 3.3 | 0.064 | (3.3) | 7.7 | 21 | 99 | 0.5 | 11.2 | 15 | 137 | | | | |
| | | Ash(%) | | | | | | | | | | | | | |
| | | (5.5) | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | | | |
| | | Al | Ca | Cl | K | Mg | N | S | Si | Na | | | | | |
| NCS DC 73349 | Branches and Leaves of Bush | 0.20 | 1.68 | (1.92) | 0.92 | 0.48 | 1.50 | 0.73 | 0.60 | 1.96 | 35 | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | |
| | | Ag | As | B | Ba | Be | Bi | Br | Cd | Ce | Co | Cr | Cs | Cu | Dy |
| NCS DC 73349 | Branches and Leaves of Bush | 0.049 | 1.25 | 38 | 18 | 0.051 | 0.023 | 3.0 | (0.038) | 2.2 | 0.41 | 2.6 | 0.27 | 6.6 | (0.13) |
| NCS DC 73349 | Branches and Leaves of Bush | Eu | F | Fe | Gd | Hf | Hg | Ho | La | Li | Lu | Mn | Mo | Nd | Ni |
| | | 0.39 | 23 | 1070 | (0.19) | (0.15) | | (0.033) | 1.25 | 2.6 | (0.011) | 61 | 0.28 | 1.0 | 1.7 |
| NCS DC 73349 | Branches and Leaves of Bush | P | Pb | Pr | Rb | Sb | Sc | Se | Sm | Sn | Sr | Tb | Th | Ti | U |
| | | 100 | 47 | (0.24) | 4.5 | 0.095 | 0.32 | 0.12 | 0.19 | (0.27) | 246 | 0.025 | 0.36 | 95 | (0.12) |
| NCS DC 73349 | Branches and Leaves of Bush | V | W | Y | Yb | Zn | | | | | | | | | |
| | | 2.4 | (0.06) | (0.68) | 0.063 | 55 | | | | | | | | | |
| Number | Name | Chemical Composition(µg/kg) | | | | | | Unit Size (in g) | | | | | | | |
| | | Pt | Pd | Ir | Os | Au | Rh | | | | | | | | |
| NCS DC 73352 | Platinum Group | 0.26 | 0.26 | (0.04) | (0.05) | 0.90 | | 500 | | | | | | | |
| NCS DC 73353 | Platinum Group | 1.6 | 2.3 | (0.05) | (0.05) | 10 | | 500 | | | | | | | |
| NCS DC 73354 | Platinum Group | 6.4 | 4.6 | 4.3 | 9.6 | 1.1 | 1.3 | 500 | | | | | | | |
| NCS DC 73355 | Platinum Group | 58 | 60 | 4.7 | 2.4 | 4.3 | 4.3 | 500 | | | | | | | |
| NCS DC 73356 | Platinum Group | 20 | 11.3 | 136 | 353 | | 10 | 500 | | | | | | | |
| NCS DC 73357 | Platinum Group | 440 | 568 | 28 | 15.6 | (45) | 22 | 500 | | | | | | | |
| NCS DC 73358 | Platinum Group | 14.7 | 15.2 | 1.2 | 0.64 | (1.8) | 1.1 | 500 | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | |
|--------------|-----------------------|-------------------------------|--------------------------------|---------------------------------|--------|-------|--------|-------------------|------------------|-------------------------------|-----------------|--------|---------------------|--|
| | | SiO ₂ | Al ₂ O ₃ | TFe ₂ O ₃ | FeO | MgO | CaO | Na ₂ O | K ₂ O | H ₂ O ⁺ | CO ₂ | LOI | | |
| NCS DC 73372 | Lake Sediment | 61.7 | 13.3 | 4.8 | (1.4) | 1.52 | 5.0 | 1.28 | 1.98 | (4.7) | 2.9 | (9.5) | 70 | |
| NCS DC 73374 | Stream Sediment | 57.3 | 13.4 | 9.5 | (2.4) | 3.4 | 3.5 | 2.0 | 2.3 | (4.4) | (0.26) | 5.64 | 70 | |
| NCS DC 73375 | Limestone | 6.65 | 0.68 | 0.21 | (0.06) | 0.71 | 51.1 | (0.03) | 0.15 | (0.4) | 39.8 | 40.2 | 70 | |
| NCS DC 73376 | Gramite | 66.3 | 16.3 | 3.12 | 1.6 | 1.63 | 2.66 | 5.3 | 2.60 | (1.0) | 0.35 | 1.28 | 70 | |
| NCS DC 73377 | Plagioclase Bomblende | 49.6 | 13.8 | 14.8 | 10.8 | 7.2 | 9.6 | 2.07 | 0.48 | (1.7) | (0.16) | 1.06 | 70 | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | |
| | | Ag | As | B | Ba | Be | Bi | Cd | Ce | Cl | Co | Cr | Cs | |
| NCS DC 73372 | Lake Sediment | 0.075 | 8.4 | 52 | 520 | 2.1 | 0.27 | (0.10) | 74 | (40) | 14 | 75 | 8.1 | |
| NCS DC 73374 | Stream Sediment | 0.013 | 18 | 27 | 760 | 5.7 | 3.0 | (0.20) | 109 | (50) | 28 | 243 | 4.3 | |
| NCS DC 73375 | Limestone | (0.024) | 0.67 | (6) | 8.6 | 0.13 | 0.032 | (0.018) | 4.6 | (30) | (0.7) | (3.3) | (0.12) | |
| NCS DC 73376 | Gramite | 0.027 | 0.25 | 15 | 1140 | 1.7 | 0.094 | (0.06) | 48 | (127) | 7.5 | 23 | 2.6 | |
| NCS DC 73377 | Plagioclase Bomblende | (0.05) | 25 | 12 | 62 | 0.34 | (0.06) | 0.14 | 7.8 | (120) | 52 | 137 | 1.9 | |
| Number | Name | Cu | Dy | Er | Eu | F | Ga | Gd | Ge | Hf | Hg | Hc | In | |
| | | | | | | | | | | | | | | |
| NCS DC 73372 | Lake Sediment | 26 | 4.7 | 2.8 | 1.27 | 500 | 16.3 | 5.4 | 1.3 | 6.6 | 0.030 | 1.03 | (0.12) | |
| NCS DC 73374 | Stream Sediment | 66 | 7.0 | 4.0 | 2.5 | 580 | 25 | 7.6 | 1.6 | 13.6 | 0.034 | 1.43 | (0.18) | |
| NCS DC 73375 | Limestone | (2.2) | 0.28 | 0.15 | 0.082 | 240 | (0.8) | 0.36 | 0.13 | 0.21 | 0.005 | (0.04) | (0.03) | |
| NCS DC 73376 | Gramite | (2.6) | 1.5 | 0.76 | 0.10 | 660 | 18 | 2.4 | 0.93 | 3.3 | 0.004 | 0.27 | | |
| NCS DC 73377 | Plagioclase Bomblende | 84 | 3.5 | 2.3 | 0.92 | 206 | 17.3 | 2.7 | 1.46 | 1.5 | 0.0032 | 0.84 | | |
| Number | Name | La | Li | Lu | Mn | Mo | Nb | Nd | Ni | P | Pb | Pr | Rb | |
| | | | | | | | | | | | | | | |
| NCS DC 73372 | Lake Sediment | 38 | 39 | 0.41 | 520 | 0.45 | 14.4 | 32 | 33 | 490 | 25 | 8.5 | 102 | |
| NCS DC 73374 | Stream Sediment | 54 | 24 | 0.58 | 1230 | 2.7 | 72 | 45 | 87 | 1000 | 66 | 11.8 | 87 | |
| NCS DC 73375 | Limestone | 2.3 | 4.5 | 0.023 | 30 | 0.18 | (0.8) | 1.95 | (4) | 57 | (5) | 0.60 | 4.0 | |
| NCS DC 73376 | Gramite | 25 | 24 | 0.11 | 430 | (0.3) | 4 | 21 | 12.2 | 570 | 7.7 | 5.7 | 57 | |
| NCS DC 73377 | Plagioclase Bomblende | 2.9 | 11 | 0.38 | 1600 | 0.16 | 2.7 | 6.4 | 119 | 375 | (9) | 1.25 | 30 | |
| Number | Name | S | Sb | Sc | Se | Sm | Sn | Sr | Ta | Tb | Th | Ti | Tl | |
| | | | | | | | | | | | | | | |
| NCS DC 73372 | Lake Sediment | 240 | 0.90 | 12 | 0.14 | 6.2 | 3.4 | 165 | 1.1 | 0.86 | 12.8 | 4240 | (0.6) | |
| NCS DC 73374 | Stream Sediment | (110) | 2.7 | 18 | (0.12) | 8.5 | (9) | 216 | 5.0 | 1.23 | 12.4 | 1.44 | *0.4 | |
| NCS DC 73375 | Limestone | 35 | 0.068 | (0.7) | 0.021 | 0.40 | (0.5) | 110 | (0.05) | 0.054 | 0.86 | 233 | (0.033) | |
| NCS DC 73376 | Gramite | (50) | 0.063 | 5.0 | 0.019 | 3.3 | 0.8 | 690 | (0.33) | 0.29 | 1.9 | 1780 | (0.20) | |
| NCS DC 73377 | Plagioclase Bomblende | (70) | (0.7) | 43 | 0.083 | 2.1 | (0.8) | 142 | (0.14) | 0.57 | (0.34) | 5530 | (0.11) | |
| Number | Name | Tm | U | V | W | Y | Yb | Zn | Zr | | | | | |
| | | | | | | | | | | | | | | |
| NCS DC 73372 | Lake Sediment | 0.42 | 2.1 | 90 | 2.0 | 25 | 2.6 | 61 | 234 | | | | | |
| NCS DC 73374 | Stream Sediment | 0.60 | 3.0 | 190 | 5.7 | 34 | 3.8 | 165 | 520 | | | | | |
| NCS DC 73375 | Limestone | 0.022 | 0.23 | 5.2 | 0.13 | (1.8) | 0.15 | (7) | (11) | | | | | |
| NCS DC 73376 | Gramite | 0.11 | (0.4) | 45 | 0.42 | 7.4 | 0.69 | 46 | (90) | | | | | |
| NCS DC 73377 | Plagioclase Bomblende | 0.36 | (0.14) | 300 | 0.34 | 20 | 2.4 | 100 | 57 | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition | | | | | | | | Unit Size (in g) | | | | | | |
|--------------|----------------|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------------------------|---------------------|-----------------------|-------------------|------------------|------|---------------------|--|
| | | Pt(10 ⁻⁹) | Pt(10 ⁻⁶) | Pd(10 ⁻⁹) | Pd(10 ⁻⁶) | Os(10 ⁻⁹) | Ru(10 ⁻³) | Ir(10 ⁻³) | Rh(10 ⁻³) | | Au(10 ⁻⁹) | | | | | |
| NCS DC 73397 | Platinum group | 0.66 | | 0.66 | | 0.25 | 0.66 | 0.16 | 0.066 | 2.3 | | | | 1000 | | |
| NCS DC 73398 | Platinum group | | 1.9 | | 0.57 | 43 | 74 | 28 | 7.3 | | | | | 1000 | | |
| NCS DC 73399 | Platinum group | | 5.7 | | 1.67 | 2 | 2 | 2.1 | 1.5 | | | | | 1000 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | Cu | Pb | Zn | Fe | S | Mn | SiO ₂ | Al ₂ O ₃ | MgO | CaO | Na ₂ O | K ₂ O | Ag* | | |
| NCS DC 73507 | Ore | 0.264 | 0.43 | 0.83 | 4.68 | 2.67 | 0.090 | 63.0 | 14.1 | 1.55 | 1.52 | 0.68 | 3.85 | 18.3 | 50 | |
| NCS DC 73508 | Ore | 1.05 | 2.17 | 4.26 | 8.4 | 6.74 | 0.38 | 47.9 | 11.2 | 1.39 | 4.7 | 0.24 | 3.1 | 220 | 50 | |
| NCS DC 73509 | Ore | 2.80 | 0.056 | 0.143 | 11.40 | 5.95 | 0.24 | 40.6 | 7.8 | 2.33 | 17.2 | 0.54 | 1.79 | 1010 | 50 | |
| NCS DC 73510 | Ore | 0.096 | 5.13 | 13.9 | 19.6 | 29.0 | 0.066 | 14.1 | (2.5) | 0.59 | 6.5 | (0.03) | 0.78 | 148 | 50 | |
| | | Ce* | In* | Ti* | Se* | Te* | Re* | Mo* | W* | As | Sb* | Bi* | Hg* | Sn* | | |
| NCS DC 73507 | Ore | 2.9 | (1.5) | 1.2 | 2.3 | (0.3) | | 28 | (10) | 0.043 | 94 | 2.8 | 4.2 | | | |
| NCS DC 73508 | Ore | 6.5 | 10 | (1.1) | (5.8) | (1.3) | | 24 | 25 | 0.28 | (610) | 75 | 17 | (20) | | |
| NCS DC 73509 | Ore | 3.3 | 3.3 | (1.0) | 24 | (1.8) | (0.24) | 137 | 56 | 0.026 | 95 | 86 | | 9.7 | | |
| NCS DC 73510 | Ore | 25 | (7.5) | (0.3) | | | | (1.9) | (1.9) | 0.15 | 260 | (5) | 114 | | | |
| | | Ca* | Od* | | | | | | | | | | | | | |
| NCS DC 73507 | Ore | 23.4 | 32 | | | | | | | | | | | | | |
| NCS DC 73508 | Ore | 26 | 172 | | | | | | | | | | | | | |
| NCS DC 73509 | Ore | 15 | 7.4 | | | | | | | | | | | | | |
| NCS DC 73510 | Ore | 62 | 400 | | | | | | | | | | | | | |

*Chemical Composition(10⁻⁶)

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(mg/g) | | | | | | | | | | | | | Unit Size (in g) |
|---|----------------|-------------------------------|--------------------------------|----------------------|------------------------------------|------------------------------------|----------|----------------------|------------------------------------|------------------------------------|--------------------------------|---------|----------------------|---------------------|------------------------|
| | | Ni(%) | Co | S(%) | Ag | As | Cd | Cr | Cu | Mn | P | Pb | Sc | Ti | |
| NCS DC 73514 | Nickel Ore | 0.11 | 49 | 0.74 | 0.56 | 5.3 | 0.28 | 790 | 330 | 960 | 728 | 21 | 15.6 | 0.42* | 50 |
| NCS DC 73515 | Nickel Ore | 0.33 | 104 | 1.53 | 0.75 | 5.1 | 0.34 | 0.13* | 681 | 0.11* | 485 | 25 | 15.8 | 0.32* | 50 |
| NCS DC 73516 | Nickel Ore | 1.02 | 262 | 3.78 | 1.1 | 5.4 | 0.44 | 0.12* | 0.16* | 0.11* | 829 | 25 | 17.6 | 0.41* | 50 |
| NCS DC 73517 | Nickel Ore | 5.93 | 0.13* | 18.14 | 9.3 | 25 | 2.5 | (720) | 1.52* | 614 | 266 | 77 | 9.1 | 0.14* | 50 |
| NCS DC 73518 | Nickel Ore | 9.01 | 0.20* | 27.83 | 15.2 | 37 | 4 | (457) | 2.47* | 295 | (130) | 116 | 2.5 | 422 | 50 |
| | | V | Zn | SiO ₂ (%) | Al ₂ O ₃ (%) | Fe ₂ O ₃ (%) | MgO(%) | CaO(%) | Na ₂ O(%) | K ₂ O(%) | H ₂ O(%) | | | | |
| NCS DC 73514 | Nickel Ore | 102 | 79 | 54.89 | 12.21 | 8.58 | 9.67 | 4.6 | 2.16 | 1.51 | 3.37 | | | | |
| NCS DC 73515 | Nickel Ore | 93 | 77 | 52.29 | 9.09 | 10.71 | 14.56 | 4.02 | 1.59 | 1 | 3.78 | | | | |
| NCS DC 73516 | Nickel Ore | 112 | 77 | 46.85 | 8.65 | 14.69 | 14.45 | 4.7 | 1.55 | 0.9 | 3.21 | | | | |
| NCS DC 73517 | Nickel Ore | 61 | 102 | 27.4 | 4.06 | 34.71 | 9.88 | 2.55 | 0.69 | 0.34 | 2.4 | | | | |
| NCS DC 73518 | Nickel Ore | (30) | 134 | 14.13 | 1.04 | 48.37 | 6.3 | 1.16 | 0.22 | 0.06 | 1.65 | | | | |
| Note: Date in () is for reference only. value with* means in percent | | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition | | | | | | | | | | | | | Unit Size (in g) |
| | | Mo(%) | S(%) | Ag(µg/g) | As(µg/g) | Bi(µg/g) | Cd(µg/g) | Co(µg/g) | Cr(µg/g) | Cu(µg/g) | Ge(µg/g) | Mn(%) | Ni(µg/g) | P(µg/g) | |
| NCS DC 73519 | Molybdenum Ore | 0.066 | 0.38 | (0.11) | 5.2 | 6.9 | 0.50 | 13.3 | 23 | 46 | 6.2 | 0.92 | 54 | 1160 | 50 |
| NCS DC 73520 | Molybdenum Ore | 0.15 | 0.44 | 0.10 | 4.8 | 7.4 | 0.52 | 12.9 | 23 | 46 | 6.0 | 0.91 | 52 | 1231 | 50 |
| NCS DC 73521 | Molybdenum Ore | 0.54 | 0.68 | 0.13 | 4.7 | 8.2 | 0.52 | 13.2 | 23 | 48 | 6.2 | 0.91 | 52 | 1210 | 50 |
| NCS DC 73522 | Molybdenum Ore | 50.08 | 33.72 | (2.1) | (2.2) | 86 | 0.20 | 10.2 | 30 | 266 | (0.67) | 0.15 | (20) | (130) | 50 |
| | | Pb(µg/g) | Re(µg/g) | Sb(µg/g) | Sn(µg/g) | W(µg/g) | Zn(µg/g) | SiO ₂ (%) | Al ₂ O ₃ (%) | Fe ₂ O ₃ (%) | MgO(%) | CaO(%) | Na ₂ O(%) | K ₂ O(%) | Total oil and water(%) |
| NCS DC 73519 | Molybdenum Ore | 9.1 | (0.07) | 0.58 | 4.7 | 489 | 357 | 57.23 | 5.20 | 10.05 | 4.29 | 18.37 | 0.90 | 0.66 | |
| NCS DC 73520 | Molybdenum Ore | 10.5 | 0.12 | 0.60 | 4.5 | 518 | 365 | 57.47 | 5.20 | 9.89 | 4.37 | 18.13 | 0.91 | 0.66 | |
| NCS DC 73521 | Molybdenum Ore | 13.7 | 0.31 | 0.73 | 4.7 | 557 | 360 | 56.87 | 5.12 | 9.88 | 4.35 | 18.09 | 0.90 | 0.66 | |
| NCS DC 73522 | Molybdenum Ore | 316 | 23 | 13.2 | (11.9) | 732 | 68 | 7.58 | (1.16) | 1.23 | 1.96 | 1.95 | (0.21) | (0.06) | 0.85 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | SiO ₂ | Al ₂ O ₃ | MgO | CaO | P | Mn | Na ₂ O | K ₂ O | S | Fe ₂ O ₃ | N | Ti | Zn | |
| NCS DC 77301 | Soil | 73.28 | 12.91 | 0.49 | 1.35 | 0.0318 | 0.0262 | 3.31 | 3.37 | (0.097) | 2.08 | (0.052) | 0.25 | 0.0342 | 50 |
| NCS DC 77302 | Soil | 65.64 | 14.55 | 1.25 | 1.42 | 0.0439 | 0.0706 | 1.90 | 2.59 | (0.0174) | 4.60 | (0.12) | 0.46 | 0.0728 | 50 |
| | | Chemical Composition(µg/g) | | | | | | | | | | | | | |
| | | Te | Ag | As | B | Ba | Cu | F | Ga | Ge | Hg | Li | Pb | Sc | |
| NCS DC 77301 | Soil | (0.024) | 0.067 | 2.9 | 13.8 | 693 | 4.9 | 215 | 14.6 | 1.2 | 0.015 | 14.3 | 16.3 | 4.8 | |
| NCS DC 77302 | Soil | (0.035) | 0.11 | 10.5 | 38.3 | 623 | 23.2 | 438 | 18.8 | (1.6) | 0.066 | 33.2 | 29.2 | 11.4 | |
| | | Sr | Zn | Br | Cd | Sb | Ce | Dy | Eu | Th | Zr | Gd | Ho | La | |
| NCS DC 77301 | Soil | 270 | 34.2 | (1.2) | 0.068 | 0.21 | 58.9 | 3.2 | 0.97 | 8.4 | 330 | 3.9 | (0.66) | 31.3 | |
| NCS DC 77302 | Soil | 188 | 72.8 | (5.0) | 0.090 | 0.93 | 76.6 | (5.3) | 1.2 | 12.0 | 337 | 5.6 | (1.1) | 37.6 | |
| | | Lu | Nd | Sm | Tb | Tm | Yb | Er | Pr | Y | Co | Cr | Cs | Mo | |
| NCS DC 77301 | Soil | 0.27 | 26.0 | 4.9 | 0.55 | 0.28 | 1.8 | (1.8) | (7.1) | 16.9 | 4.9 | 26.4 | 3.3 | 0.43 | |
| NCS DC 77302 | Soil | 0.46 | 34.4 | 6.6 | 0.85 | 0.48 | 3.1 | (2.9) | (8.8) | 27.4 | 12.8 | 66.0 | 7.9 | 0.84 | |
| | | Nb | Ni | Rb | U | V | W | Sn | Ti | Cl | I | In | | | |
| NCS DC 77301 | Soil | 13.0 | 9.3 | 97.4 | 1.6 | 34.7 | 0.98 | 1.4 | 0.58 | (57.4) | (0.44) | (0.032) | | | |
| NCS DC 77302 | Soil | 17.1 | 27.6 | 109 | 2.4 | 82.7 | 5.0 | 4.2 | 0.62 | (45.6) | (2.6) | (0.07) | | | |
| **Chemical Composition: Percent | | | | | | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | |
|-----------------|-----------------------------|--|--|-------------------------------------|---------------------------------------|----------------------------------|--------------------------------------|------------------------------|--|--|---|---|--|--|
| | | Al | Ca | Fe | K | Mg | N | Na | P | Si | Ti | | | |
| NCS DC 78302 | Tibet Soil | 7.11 | 2.59 | 3.34 | 2.12 | 1.53 | 0.128 | 1.52 | 0.86 | 30.57 | 0.40 | 15 | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | |
| | | As | Be | Cd | Co | Ce | Cr | Cu | Eu | La | Mn | Pb | Rb | |
| NCS DC 78302 | Tibet Soil | 3.8 | 2.96 | 0.081 | 13.1 | 83.6 | 60.8 | 24.6 | 1.4 | 41.9 | 677 | 14.2 | 135 | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | |
| | | Sc | Se | Sm | Sr | Th | U | V | Zn | Yb | Hf | Hg | Lu | |
| NCS DC 78302 | Tibet Soil | 10.8 | 0.16 | 7.1 | 163 | 17.5 | 3.84 | 77.5 | 58.0 | 3.1 | (7.3) | (0.018) | (0.48) | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | |
| | | P ₂ O ₅ | SiO ₂ | CaO* | MgO | TFe ₂ O ₃ | Al ₂ O ₃ | MnO | TiO ₂ | F | CO ₂ | | K ₂ O | Na ₂ O |
| NCS DC 79001 | Phosphat Rock | 36.89 | 3.26 | 51.32 | 0.43 | 1.04 | 0.58 | 0.024 | 0.037 | 3.54 | 2.15 | 0.17 | 0.33 | 100 |
| NCS DC 79002 | Phosphat Rock | 20.86 | 3.61 | 40.71 | 8.19 | 1.08 | 2.58 | 0.015 | 0.14 | 2.05 | 18.46 | 0.28 | 0.059 | 100 |
| NCS DC 79003 | Phosphat Rock | 6.06 | 38.80 | 19.42 | 7.12 | 3.08 | 4.06 | 0.026 | 0.48 | 0.51 | 16.41 | 2.63 | 0.14 | 100 |
| * Including Sro | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | |
| | | I | Ts | SrO | | | | | | | | | | |
| NCS DC 79001 | Phosphat Rock | 0.0052 | | 0.077 | | | | | | | | | | |
| NCS DC 79002 | Phosphat Rock | 0.0059 | 0.79 | 0.16 | | | | | | | | | | |
| NCS DC 79003 | Phosphat Rock | | | 0.055 | | | | | | | | | | |
| Number | Name | PH | Organic Matter(g/kg) | Total Nitrogen(g/kg) | Hydrolyzable Nitrogen(mg/kg) | Available NaHC03 Extraction | Phosphorus(mg/kg) NH4F Extraction | Unit Size (in g) | | | | | | |
| | | | | | | | | | Effective Potassium(g/kg) | slowly available potassium (inexchangeable)(g/kg) | Available sulfure (mg/kg) Phosphate Extraction | Available sulfure (mg/kg) CaCl ₂ Extraction | Available Silicon(g/kg) | Cation Exchange Capacity cmol(+)/kg |
| NCS DC 85101a | Available Nutrients in Soil | 6.80 | 10.0 | 0.63 | 54 | 100 | 500 | | | | | | | |
| NCS DC 85102a | Available Nutrients in Soil | 8.15 | 13.2 | 0.77 | 76 | 23.3 | 500 | | | | | | | |
| NCS DC 85103a | Available Nutrients in Soil | 8.18 | 14.6 | 1.07 | 97 | 29 | 500 | | | | | | | |
| NCS DC 85105a | Available Nutrients in Soil | 4.71 | 7.3 | 0.54 | 44 | | 500 | | | | | | | |
| NCS DC 85113 | Available Nutrients in Soil | 6.14 | 34.5 | 1.62 | 157 | | 500 | | | | | | | |
| NCS DC 85114 | Available Nutrients in Soil | 8.61 | 12.7 | 0.71 | 53 | 15.7 | 500 | | | | | | | |
| NCS DC 85115 | Available Nutrients in Soil | 8.50 | 10.3 | 0.65 | 45 | 24 | 500 | | | | | | | |
| NCS DC 85116 | Available Nutrients in Soil | 8.18 | 17 | 1.09 | 86 | 11.2 | 500 | | | | | | | |
| Number | Name | Exchangeable Calcium cmol(1/2Ca2+)/kg | Exchangeable Magnesium cmol(1/2Mg2+)/kg | Exchangeable Sodium cmol(Na+)/kg | Exchangeable Potassium cmol(K+)/kg | Exchangeable Manganese(mg/kg) | Available Molybdenum(mg/kg) | | | | | | | |
| | | | | | | | | Effective Potassium(g/kg) | slowly available potassium (inexchangeable)(g/kg) | Available sulfure (mg/kg) Phosphate Extraction | Available sulfure (mg/kg) CaCl ₂ Extraction | Available Silicon(g/kg) | Cation Exchange Capacity cmol(+)/kg | |
| NCS DC 85101a | Available Nutrients in Soil | 0.38 | 1.06 | 22 | | 0.83 | 21.6 | | | | | | | |
| NCS DC 85102a | Available Nutrients in Soil | 0.29 | 0.95 | | 42 | 0.46 | 12.8 | | | | | | | |
| NCS DC 85103a | Available Nutrients in Soil | 0.38 | 0.88 | | 47 | 0.38 | 17 | | | | | | | |
| NCS DC 85105a | Available Nutrients in Soil | 0.18 | 0.16 | 104 | | 0.44 | 10.0 | | | | | | | |
| NCS DC 85113 | Available Nutrients in Soil | 0.36 | 0.98 | 33 | | 0.63 | 31 | | | | | | | |
| NCS DC 85114 | Available Nutrients in Soil | 0.39 | 1.04 | | 38 | 0.34 | 13.8 | | | | | | | |
| NCS DC 85115 | Available Nutrients in Soil | 0.33 | 1.2 | | 27 | 0.31 | 9.6 | | | | | | | |
| NCS DC 85116 | Available Nutrients in Soil | 0.34 | 1.02 | | 31 | 0.35 | 20 | | | | | | | |
| NCS DC 85101a | Available Nutrients in Soil | 17.8 | 4.3 | 0.31 | 0.99 | 47 | 0.24 | | | | | | | |
| NCS DC 85102a | Available Nutrients in Soil | | 3.0 | 0.26 | 0.77 | (36) | 0.086 | | | | | | | |
| NCS DC 85103a | Available Nutrients in Soil | | 2.4 | 0.31 | 1.02 | (106) | 0.080 | | | | | | | |
| NCS DC 85105a | Available Nutrients in Soil | 1.6 | 0.42 | 0.13 | 0.45 | 13 | 0.20 | | | | | | | |
| NCS DC 85113 | Available Nutrients in Soil | 22.5 | 5.4 | 0.24 | 0.94 | 80 | 0.13 | | | | | | | |
| NCS DC 85114 | Available Nutrients in Soil | | | | | | 0.27 | | | | | | | |
| NCS DC 85115 | Available Nutrients in Soil | | | | | | 0.08 | | | | | | | |
| NCS DC 85116 | Available Nutrients in Soil | | | | | | 0.069 | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition | |
|---------------|-----------------------------|------------------------|-------------------------|
| | | Available Boron(mg/kg) | Soluble Fluorine(mg/kg) |
| NCS DC 85101a | Available Nutrients in Soil | 0.42 | 5.1 |
| NCS DC 85102a | Available Nutrients in Soil | 0.55 | 14.6 |
| NCS DC 85103a | Available Nutrients in Soil | 0.5 | 5.0 |
| NCS DC 85105a | Available Nutrients in Soil | 0.17 | (0.75) |
| NCS DC 85113 | Available Nutrients in Soil | 0.56 | 2.9 |
| NCS DC 85114 | Available Nutrients in Soil | 1.9 | 10.8 |
| NCS DC 85115 | Available Nutrients in Soil | 0.35 | 7.7 |
| NCS DC 85116 | Available Nutrients in Soil | 0.3 | 11.4 |

| Number | Name | Soluble salt | | | | | | |
|---------------|-----------------------------|--------------|-----------|-------------|------------|-------------|-----------|------------|
| | | Total(g/kg) | Cl-(g/kg) | S042-(g/kg) | Ca2+(g/kg) | Mg2+(mg/kg) | K+(mg/kg) | Na+(mg/kg) |
| NCS DC 85101a | Available Nutrients in Soil | (0.52) | 0.020 | 0.064 | 0.040 | 10 | 17 | 27 |
| NCS DC 85102a | Available Nutrients in Soil | (1.0) | 0.022 | 0.125 | 0.17 | 22 | 31 | 29 |
| NCS DC 85103a | Available Nutrients in Soil | (1.05) | 0.020 | 0.139 | 0.174 | 13 | 36 | 34 |
| NCS DC 85105a | Available Nutrients in Soil | (0.34) | (0.014) | 0.070 | 0.022 | 3.8 | 26 | 5.8 |
| NCS DC 85113 | Available Nutrients in Soil | (0.76) | 0.016 | 0.109 | 0.080 | 19 | 18 | 24 |
| NCS DC 85114 | Available Nutrients in Soil | (0.9) | 0.049 | 0.12 | 0.082 | 14 | 40 | 163 |
| NCS DC 85115 | Available Nutrients in Soil | (0.68) | (0.015) | 0.083 | 0.117 | 12.4 | 29 | 29 |
| NCS DC 85116 | Available Nutrients in Soil | (0.87) | (0.021) | 0.092 | 0.165 | 15.0 | 20.6 | 33 |

| Number | Name | Available(mg/kg) | | | | | | | | |
|---------------|-----------------------------|------------------|------|------|-----------|---------|------|--------|----------|--------|
| | | Copper | Zinc | Iron | Manganese | Cadmium | Lead | Nickel | Chromium | Cobalt |
| NCS DC 85101a | Available Nutrients in Soil | 3.3 | 2.4 | 202 | 31 | 0.033 | 1.9 | 1.1 | | 0.16 |
| NCS DC 85102a | Available Nutrients in Soil | 1.17 | 1.08 | 55 | 17.3 | 0.040 | 1.7 | 0.27 | (0.025) | 0.13 |
| NCS DC 85103a | Available Nutrients in Soil | 1.85 | 2.4 | 38 | 23 | 0.12 | 1.6 | 0.43 | (0.02) | 0.10 |
| NCS DC 85105a | Available Nutrients in Soil | 0.24 | 0.53 | 23 | 5.7 | 0.016 | 1.5 | 0.072 | (0.018) | 0.083 |
| NCS DC 85113 | Available Nutrients in Soil | 2.6 | 2.3 | 142 | 67 | 0.048 | 2.07 | 2.4 | | 0.39 |
| NCS DC 85114 | Available Nutrients in Soil | 1.8 | 0.54 | 38 | 14.5 | 0.025 | 1.4 | 0.23 | (0.014) | 0.069 |
| NCS DC 85115 | Available Nutrients in Soil | 1.36 | 0.57 | 20 | 17 | 0.025 | 0.67 | 0.20 | (0.015) | 0.08 |
| NCS DC 85116 | Available Nutrients in Soil | 2.6 | 1.04 | 76 | 21 | 0.049 | 3.8 | 0.26 | | 0.073 |

DTPA extraction

| Number | Name | Available(mg/kg) | | | | | | | | | |
|---------------|-----------------------------|------------------|------|------|-----------|---------|------|--------|----------|---------|----------|
| | | Copper | Zinc | Iron | Manganese | Cadmium | Lead | Nickel | Chromium | Arsenic | Selenium |
| NCS DC 85101a | Available Nutrients in Soil | 2.9 | 5.4 | 111 | 96 | 0.046 | 0.82 | 2.4 | 0.42 | (0.070) | (3.4) |
| NCS DC 85105a | Available Nutrients in Soil | 1.14 | 1.53 | 85 | 16 | 0.047 | 4.8 | 0.20 | 0.28 | | (5) |
| NCS DC 85113 | Available Nutrients in Soil | 1.08 | 3.6 | 16.3 | 131 | 0.053 | 0.8 | 3.3 | 0.25 | 0.18 | 4.6 |

Hydrochloric acid extraction

| Number | Name | Available(mg/kg) | | | | |
|---------------|-----------------------------|------------------|---------|---------|---------|---------|
| | | Copper | Zinc | Cadmium | Lead | Nickel |
| NCS DC 85101a | Available Nutrients in Soil | 0.025 | (0.06) | | (0.028) | 0.035 |
| NCS DC 85102a | Available Nutrients in Soil | 0.047 | (0.03) | | | (0.023) |
| NCS DC 85103a | Available Nutrients in Soil | 0.082 | (0.048) | | (0.023) | 0.024 |
| NCS DC 85105a | Available Nutrients in Soil | 0.023 | 0.24 | 14 | (0.06) | 0.055 |
| NCS DC 85113 | Available Nutrients in Soil | 0.034 | 0.068 | (0.7) | (0.028) | 0.047 |
| NCS DC 85114 | Available Nutrients in Soil | 0.052 | (0.03) | | (0.02) | (0.018) |
| NCS DC 85115 | Available Nutrients in Soil | 0.045 | (0.038) | | (0.02) | 0.016 |
| NCS DC 85116 | Available Nutrients in Soil | 0.053 | (0.034) | | (0.02) | (0.025) |

Sodium nitrate extraction

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | | | |
|--|------------------|--------------------------------|--------------------------------|---------------------------------|-------------------|--------------------------------|--------------------------------|-------------------|-------------------------------|------------------|--------------------------------|-------------------|--------|-------|---------------------|
| | | SiO ₂ | Al ₂ O ₃ | TFe ₂ O ₃ | MgO | CaO | Na ₂ O | K ₂ O | TiO ₂ | | | | | | |
| NCS DC 85107 | Agriculture soil | 65.37 | 15.06 | 4.98 | 1.62 | 1.68 | 2.48 | 2.72 | 0.74 | | 70 | | | | |
| NCS DC 85108 | Agriculture soil | 63.06 | 12.76 | 4.49 | 2.01 | 4.57 | 1.69 | 2.43 | 0.68 | | 70 | | | | |
| NCS DC 85109 | Agriculture soil | 53.72 | 14.74 | 5.72 | 2.09 | 7.93 | 0.99 | 2.72 | 0.65 | | 70 | | | | |
| NCS DC 85110 | Agriculture soil | 61.03 | 16.21 | 6.20 | 1.90 | 0.84 | 0.99 | 2.45 | 0.92 | | 70 | | | | |
| NCS DC 85111 | Agriculture soil | 69.68 | 14.58 | 5.21 | 0.54 | (0.22) | (0.090) | 1.08 | 0.96 | | 70 | | | | |
| NCS DC 85112 | Agriculture soil | 83.34 | 8.89 | 1.35 | (0.20) | (0.16) | (0.038) | 0.65 | 0.22 | | 70 | | | | |
| | | MNO | P ₂ O ₅ | S | L.O.L | Cu* | Zn* | B* | Mo* | | | | | | |
| NCS DC 85107 | Agriculture soil | 0.094 | 0.120 | (0.013) | 4.83 | 24 | 67 | 34 | 0.80 | | | | | | |
| NCS DC 85108 | Agriculture soil | 0.077 | 0.162 | (0.017) | 7.71 | 25 | 68 | 54 | (0.82) | | | | | | |
| NCS DC 85109 | Agriculture soil | 0.106 | 0.197 | (0.019) | 11.17 | 29 | 96 | 75 | 1.53 | | | | | | |
| NCS DC 85110 | Agriculture soil | 0.050 | 0.098 | (0.033) | 9.01 | 42 | 93 | 65 | 0.73 | | | | | | |
| NCS DC 85111 | Agriculture soil | 0.029 | 0.122 | (0.014) | 7.52 | 32 | 81 | 71 | 1.47 | | | | | | |
| NCS DC 85112 | Agriculture soil | 0.015 | 0.124 | (0.014) | 4.86 | 2.8 | 22 | (20) | 1.15 | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | BeO | Li ₂ O | Rb ₂ O | Cs ₂ O | TA ₂ O ₅ | Nb ₂ O ₅ | ZrO ₂ | HfO ₂ | SiO ₂ | Al ₂ O ₃ | TFeO ₃ | FeO | CaO | |
| NCS DC 86301 | Beryllium Ore | 0.060 | | | | | | | | 73.80 | 14.85 | 0.515 | (0.17) | 0.577 | 100 |
| NCS DC 86302 | Beryllium Ore | 0.359 | | | | | | | | 73.77 | 14.83 | 0.591 | (0.18) | 0.578 | 100 |
| NCS DC 86303 | Lithium Ore | 0.017 | 0.459 | 0.145 | 0.036 | 48.4* | 26.5* | | | 74.21 | 14.79 | 0.391 | (0.06) | 0.335 | 100 |
| NCS DC 86304 | Lithium Ore | 0.026 | 2.28 | 0.734 | 0.178 | 0.011 | 60.7* | | | 64.70 | 19.23 | 0.299 | (0.02) | 0.076 | 100 |
| NCS DC 86305 | Tantalium Ore | 0.033 | 0.791 | 0.245 | 0.064 | 87.3* | 42.1 | | | 75.03 | 14.32 | 0.322 | (0.02) | 0.107 | 100 |
| NCS DC 86306 | Tantalium Ore | 0.033 | 0.777 | 0.239 | 0.065 | 0.069 | 0.043 | | | | | | | | 100 |
| NCS DC 86307 | Zirconium Ore | | | | | | | 0.187 | 42.9* | 65.36 | 14.75 | 4.78 | 1.83 | 2.69 | 100 |
| NCS DC 86308 | Zirconium Ore | | | | | | | 1.27 | 0.026 | 65.56 | 14.76 | 4.67 | 1.83 | 2.64 | 100 |
| NCS DC 86309 | Rare-Earth Ore | | | 5.71* | | | | | | 67.31 | 19.08 | 3.49 | (0.07) | 0.03 | 100 |
| NCS DC 86310 | Rare-Earth Ore | | 0.015 | 0.069 | 17.9* | | | | | 74.61 | 14.72 | 1.16 | 0.053 | 0.03 | 100 |
| NCS DC 86311 | Rare-Earth Ore | | 0.015 | 0.068 | 17.9* | | | | | 74.28 | 14.6 | 1.13 | (0.04) | 0.03 | 100 |
| NCS DC 86312 | Rare-Earth Ore | | 40.0* | 0.011 | 5.66* | | | | | 66.77 | 19.02 | 3.45 | (0.07) | 0.029 | 100 |
| *Chemical Composition(10 ⁻⁶) | | | | | | | | | | | | | | | |
| | | RE ₂ O ₃ | La ₂ O ₃ | MgO | MnO | TiO ₂ | K ₂ O | Na ₂ O | P ₂ O ₅ | F | H ₂ O* | L.O.I | | | |
| NCS DC 86301 | Beryllium Ore | 75.8* | 6.97* | 0.070 | 0.029 | 0.015 | 4.08 | 4.79 | (0.01) | 0.019 | 0.607 | 0.687 | | | |
| NCS DC 86302 | Beryllium Ore | | 7.74 | 0.069 | 0.035 | 0.015 | 3.87 | 4.66 | 0.013 | 0.040 | 0.596 | 0.732 | | | |
| NCS DC 86303 | Lithium Ore | 47.1* | 5.03* | 0.054 | 0.069 | 0.018 | 3.16 | 4.19 | 0.169 | 0.676 | 1.06 | 1.49 | | | |
| NCS DC 86304 | Lithium Ore | 15.2* | (2.1)* | 0.036 | 0.252 | 0.028 | 4.79 | 2.34 | 0.236 | 3.16 | 2.34 | 4.11 | | | |
| NCS DC 86305 | Tantalium Ore | 18.3* | 3.09* | 0.050 | 0.113 | 0.028 | 2.05 | 3.62 | 0.350 | 1.34 | 1.50 | 2.20 | | | |
| NCS DC 86306 | Tantalium Ore | 44.9* | 6.84* | 0.048 | 0.143 | 0.032 | 2.02 | 3.69 | 0.344 | 1.34 | 1.53 | 2.20 | | | |
| NCS DC 86307 | Zirconium Ore | 0.018 | 36.3* | 2.08 | 0.082 | 0.420 | 3.35 | 3.80 | 0.166 | 0.081 | 1.34 | 1.57 | | | |
| NCS DC 86308 | Zirconium Ore | 0.022 | 38.0* | 2.01 | 0.083 | 0.411 | 3.33 | 3.72 | 0.169 | 0.083 | 1.3 | 1.51 | | | |
| NCS DC 86309 | Rare-Earth Ore | 0.093 | 0.031 | 0.227 | 0.070 | 0.539 | 2.12 | 0.063 | 0.029 | 0.016 | 6.55 | 6.69 | | | |
| NCS DC 86310 | Rare-Earth Ore | 0.086 | 19.9* | 0.080 | 0.016 | 0.022 | 4.94 | 0.157 | (0.003) | 0.034 | 3.61 | 3.70 | | | |
| NCS DC 86311 | Rare-Earth Ore | 0.493 | 0.010 | 0.080 | 0.016 | (0.02) | 4.87 | 0.155 | (0.002) | 0.034 | 3.66 | 3.78 | | | |
| NCS DC 86312 | Rare-Earth Ore | 0.787 | 0.276 | 0.226 | 0.068 | 0.532 | 2.09 | 0.062 | 0.03 | 0.014 | 6.64 | 6.82 | | | |
| *Chemical Composition(10 ⁻⁶) | | | | | | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
|-------------------------------|----------------|---------------------------------|---------------------------------|------------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------|
| | | CeO ₂ | Pr ₆ O ₁₁ | Nd ₂ O ₃ | Sm ₂ O ₃ | Eu ₂ O ₃ | Gd ₂ O ₃ | Tb ₄ O ₇ | Dy ₂ O ₃ | HO ₂ O ₃ | Er ₂ O ₃ | Tm ₂ O ₃ | Yb ₂ O ₃ | La ₂ O ₃ | |
| NCS DC 86301 | Beryllium Ore | 14.7 | 1.70 | 6.68 | 2.53 | 0.14 | 3.64 | 0.75 | 4.53 | 0.85 | 2.16 | 0.33 | 2.27 | 0.32 | |
| NCS DC 86302 | Beryllium Ore | 15.2 | 1.91 | 7.52 | 2.73 | 0.14 | 3.84 | 0.80 | 4.63 | 0.91 | 2.20 | 0.36 | 2.37 | 0.38 | |
| NCS DC 86303 | Lithium Ore | 8.98 | 1.30 | 4.96 | 1.60 | (0.14) | 2.09 | 0.42 | 2.47 | 0.43 | 1.16 | 0.18 | 1.28 | 0.18 | |
| NCS DC 86304 | Lithium Ore | 2.56 | 0.61 | 2.56 | 0.63 | 0.13 | 0.72 | 0.13 | 0.63 | (0.12) | 0.27 | 0.039 | 0.23 | 0.030 | |
| NCS DC 86305 | Tantalium Ore | 3.63 | 0.82 | 3.27 | 0.75 | 0.16 | 0.83 | 0.14 | 0.65 | 0.12 | 0.28 | 0.041 | 0.23 | 0.031 | |
| NCS DC 86306 | Tantalium Ore | 16.9 | 2.17 | 6.54 | 1.44 | 0.18 | 1.22 | 0.21 | 1.11 | 0.22 | 0.57 | 0.11 | 0.94 | 0.15 | |
| NCS DC 86307 | Zirconium Ore | 71.9 | 7.87 | 27.2 | 4.70 | 1.22 | 3.40 | 0.53 | 2.89 | 0.58 | 1.78 | 0.30 | 2.16 | 0.37 | |
| NCS DC 86308 | Zirconium Ore | 75.9 | 7.91 | 27.0 | 4.93 | 1.22 | (4.1) | 0.76 | 4.71 | 1.36 | 4.82 | 0.94 | 7.74 | 1.54 | |
| NCS DC 86309 | Rare-Earth Ore | 91.2 | 50.1 | 0.017* | 33.8 | 8.10 | 32.1 | 5.34 | 28.4 | 5.69 | (16) | 2.40 | 14.1 | 2.06 | |
| NCS DC 86310 | Rare-Earth Ore | 21.9 | 6.32 | 27.9 | 15.3 | 0.37 | 32.9 | 8.03 | 56.9 | 12.1 | 36.6 | 5.60 | 36.0 | 5.67 | |
| NCS DC 86311 | Rare-Earth Ore | 34.1 | (45) | 0.022* | 0.015* | 1.83 | (0.03)* | 56.2 | 0.037* | 76.3 | 0.022* | 32.6 | 0.021* | 30.8 | |
| NCS DC 86312 | Rare-Earth Ore | 0.023* | 0.054* | 0.186* | 0.033* | 76.6 | 0.026* | 40.5 | 0.021* | 42.3 | 0.011* | 15.1 | 97.0 | 13.7 | |
| | | Y ₂ O ₃ | Sc ₂ O ₃ | W | Mo | Sn | Th | | | | | | | | |
| NCS DC 86301 | Beryllium Ore | 29.2 | 1.66 | 1.30 | 0.41 | | | | | | | | | | |
| NCS DC 86302 | Beryllium Ore | 28.5 | 3.4 | 5.46 | 1.25 | | | | | | | | | | |
| NCS DC 86303 | Lithium Ore | 17.0 | 0.98 | 8.87 | | (32) | | | | | | | | | |
| NCS DC 86304 | Lithium Ore | 3.51 | 0.44 | 43.7 | | 95.4 | | | | | | | | | |
| NCS DC 86305 | Tantalium Ore | 3.76 | 0.63 | 16.4 | | (52) | | | | | | | | | |
| NCS DC 86306 | Tantalium Ore | 5.22 | 6.09 | 0.02* | | (64) | | | | | | | | | |
| NCS DC 86307 | Zirconium Ore | 19.5 | 14.1 | | | | 7.95 | | | | | | | | |
| NCS DC 86308 | Zirconium Ore | 42.7 | 14.5 | | | | 15.0 | | | | | | | | |
| NCS DC 86309 | Rare-Earth Ore | (0.02)* | | | | | 24.4 | | | | | | | | |
| NCS DC 86310 | Rare-Earth Ore | 0.057* | 9.26 | | | | 40.0 | | | | | | | | |
| NCS DC 86311 | Rare-Earth Ore | 0.312 * | 8.96 | | | | 38.8 | | | | | | | | |
| NCS DC 86312 | Rare-Earth Ore | 0.125 * | 11.6 | | | | 23.8 | | | | | | | | |
| *Chemical Composition Percent | | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ (T) | FeO | CaO | MgO | MnO | TiO ₂ | K ₂ O | Na ₂ O | P ₂ O ₅ | F | H ₂ O ⁺ | |
| NCS DC 86313 | Beryllium Ore | 71.97 | 15.55 | 0.47 | 0.15 | 0.52 | 0.083 | 0.020 | 0.010 | 3.28 | 3.63 | (0.018) | 0.0088 | (0.63) | 100 |
| NCS DC 86314 | Lithium Ore | 53.92 | 24.53 | 0.30 | (0.043) | 0.063 | 0.027 | 0.40 | 0.029 | 7.75 | 1.08 | 0.13 | 5.08 | (2.77) | 100 |
| NCS DC 86315 | Tantalum Ore | 72.34 | 14.58 | 0.68 | 0.26 | 0.71 | 0.093 | 0.45 | 0.039 | 4.11 | 4.40 | (0.040) | 0.019 | 0.56 | 100 |
| NCS DC 86316 | Zirconium Ore | 70.73 | (14.57) | 0.38 | 0.10 | 0.63 | 0.079 | 0.021 | 0.64 | 3.90 | 4.20 | 0.040 | 0.027 | 0.49 | 100 |
| | | L.O.I | | | | | | | | | | | | | |
| NCS DC 86313 | Beryllium Ore | 0.86 | | | | | | | | | | | | | |
| NCS DC 86314 | Lithium Ore | (5.34) | | | | | | | | | | | | | |
| NCS DC 86315 | Tantalum Ore | 0.61 | | | | | | | | | | | | | |
| NCS DC 86316 | Zirconium Ore | 0.56 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
| | | ΣRE ₂ O ₃ | La ₂ O ₃ | CeO ₂ | Pr ₆ O ₁₁ | Nd ₂ O ₃ | Sm ₂ O ₃ | Eu ₂ O ₃ | Gd ₂ O ₃ | Tb ₄ O ₇ | Dy ₂ O ₃ | Ho ₂ O ₃ | Er ₂ O ₃ | Tm ₂ O ₃ | |
| NCS DC 86313 | Beryllium Ore | 63.6 | 6.08 | 13.1 | 1.58 | 5.96 | 1.99 | 0.11 | 2.83 | 0.57 | 3.62 | 0.67 | 1.95 | 0.29 | |
| NCS DC 86314 | Lithium Ore | 0.56 | 0.10 | 0.50 | 0.094 | 0.24 | 0.038 | 0.10 | 0.56 | 0.10 | 0.50 | 0.094 | 0.24 | 0.038 | |
| NCS DC 86315 | Tantalum Ore | 81.0 | 7.65 | 16.5 | 1.91 | 7.84 | 2.48 | 0.13 | 3.47 | 0.72 | 4.72 | 0.88 | 2.65 | 0.38 | |
| NCS DC 86316 | Zirconium Ore | 515 | 69.2 | 146 | 15.7 | 53.4 | 10.1 | 0.55 | 9.92 | 2.02 | 14.9 | 3.66 | 16.4 | 2.84 | |
| | | Yb ₂ O ₃ | Lu ₂ O ₃ | Y ₂ O ₃ | Sc ₂ O ₃ | Mo | BeO | Lu ₂ O ₃ | Y ₂ O ₃ | Sc ₂ O ₃ | W | Rb ₂ O | BeO | Li ₂ O | |
| NCS DC 86313 | Beryllium Ore | 1.88 | 0.25 | 23.0 | 1.91 | 3.37 | 3.02* | | | | | | | | |
| NCS DC 86314 | Lithium Ore | 0.22 | | | | | | 0.036 | 3.06 | 0.31 | 79.0 | 1.24* | 164 | 3.89* | |
| NCS DC 86315 | Tantalum Ore | 2.37 | | | | | | 0.37 | 29.9 | 2.14 | 2.14 | 244 | 12.5 | 106 | |
| NCS DC 86316 | Zirconium Ore | 25.9 | | | | | | | | | | | | | |

Section 4 Mineral & Geology(Powder)

| | | Cs ₂ O | Nb ₂ O ₅ | Ta ₂ O ₅ | Sn | Lu ₂ O ₃ | Y ₂ O ₃ | Sc ₂ O ₃ | W | ZrO ₂ | Th | HfO ₂ | | | | |
|----------------------------|----------------|--------------------------------|---------------------------------|------------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|-----------|--|
| NCS DC 86314 | Lithium Ore | 0.30* | 81 | 132 | 152 | | | | | | | | | | | |
| NCS DC 86355 | Tantalum Ore | 8.14 | 0.52* | 1.02* | (2.65) | | | | | | | | | | | |
| NCS DC 86316 | Zirconium Ore | | | | | 6.11 | 142 | 10.7 | 5.01 | 4.68* | 202 | 0.084* | | | | |
| Number | Name | Chemical Composition(%) | | | | | | | | | | | | | Unit Size | |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ (T) | FeO | CaO | MgO | MnO | TiO ₂ | K ₂ O | Na ₂ O | P ₂ O ₅ | F | H ₂ O* | (in g) | |
| NCS DC 86317 | Rare Earth Ore | 70.92 | 16.59 | 0.71 | 0.18 | (0.11) | 0.13 | 0.10 | (0.018) | 4.03 | 0.13 | (0.0073) | 0.15 | 4.63 | 100 | |
| NCS DC 86318 | Rare Earth Ore | 66.9 | (14.26) | 2.24 | 0.20 | 0.29 | (0.11) | 0.052 | 0.17 | 5.52 | 0.66 | (0.020) | 0.017 | 3.60 | 100 | |
| | | L.O.I | ΣRE ₂ O ₃ | La ₂ O ₃ | CeO ₂ | Pr ₂ O ₃ | Nd ₂ O ₃ | Sm ₂ O ₃ | Eu ₂ O ₃ | Gd ₂ O ₃ | Tb ₂ O ₃ | Dy ₂ O ₃ | Ho ₂ O ₃ | Er ₂ O ₃ | | |
| NCS DC 86317 | Rare Earth Ore | 5.42 | 1.83 | 0.25 | 0.021 | 0.066 | 0.24 | 0.066 | 9.56* | 0.091 | 0.019 | 0.12 | (0.023) | 0.068 | | |
| NCS DC 86318 | Rare Earth Ore | 5.43 | 4.30 | 0.23 | 0.053 | 0.089 | 0.40 | 0.20 | 21.9* | 0.25 | 0.055 | 0.37 | (0.064) | 0.20 | | |
| | | Tm ₂ O ₃ | Yb ₂ O ₃ | Lu ₂ O ₃ | Y ₂ O ₃ | Sc ₂ O ₃ | Cs ₂ O | Rb ₂ O | Th | Li ₂ O | | | | | | |
| NCS DC 86317 | Rare Earth Ore | 82.9* | 0.051 | 64.5* | 0.80 | 10.1* | 148* | 0.12 | 21.0* | 396* | | | | | | |
| NCS DC 86318 | Rare Earth Ore | 0.031 | 0.21 | 0.030 | 2.16 | 7.2* | 12.6* | 404* | 67.0* | 121* | | | | | | |
| *Chemical Composition µg/g | | | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size | |
| | | SiO ₂ | TiO ₂ | Al ₂ O ₃ | TFe ₂ O ₃ | Fe ₂ O ₃ | FeO | MnO | MgO | CaO | Na ₂ O | K ₂ O | P ₂ O ₅ | H ₂ O* | (in g) | |
| NCS DC 87101 | Soil | 67.96 | 0.72 | 14.35 | (5.09) | 4.69 | (0.34) | 0.093 | 1.62 | 0.90 | 1.78 | 2.56 | 0.10 | (3.57) | 100 | |
| NCS DC 87102 | Soil | 67.21 | 0.56 | 10.78 | (3.46) | 2.28 | (1.06) | 0.066 | 1.73 | 5.21 | 1.95 | 2.15 | 0.15 | 2.29 | 100 | |
| NCS DC 87103 | Soil | 72.92 | 0.69 | 12.28 | (3.78) | 3.38 | (0.36) | 0.072 | 1.14 | 1.44 | 2.20 | 2.16 | 0.11 | (2.37) | 100 | |
| NCS DC 87104 | Soil | 60.76 | 0.55 | 10.78 | (3.55) | 2.79 | (0.68) | 0.058 | 1.83 | 9.07 | 1.74 | 2.01 | 0.087 | (2.56) | 100 | |
| NCS DC 87105 | Soil | 67.53 | 0.54 | 10.84 | (3.26) | 2.64 | (0.58) | 0.066 | 1.73 | 5.21 | 1.87 | 2.18 | 0.074 | (2.49) | 100 | |
| | | CO ₂ | L.O.I | | | | | | | | | | | | | |
| NCS DC 87101 | Soil | (0.076) | 4.64 | | | | | | | | | | | | | |
| NCS DC 87102 | Soil | 3.48 | 6.73 | | | | | | | | | | | | | |
| NCS DC 87103 | Soil | (0.083) | (3.28) | | | | | | | | | | | | | |
| NCS DC 87104 | Soil | 6.44 | 9.62 | | | | | | | | | | | | | |
| NCS DC 87105 | Soil | 3.59 | 6.67 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size | |
| | | N | S | As | B | Ba | Be | Bi | Cd | Cl | Co | Cr | | | | |
| NCS DC 87101 | Soil | 0.035 | (0.0065) | 10 | 46 | 677 | 2.4 | (0.24) | (0.26) | (61) | 15 | 93 | | | | |
| NCS DC 87102 | Soil | 0.064 | 0.034 | 9.8 | 51 | 469 | 2.0 | (0.20) | (0.22) | 600 | 9.4 | 61 | | | | |
| NCS DC 87103 | Soil | 0.029 | (0.0045) | 6.3 | 50 | 524 | 1.9 | (0.17) | (0.20) | (50) | 12 | 56 | | | | |
| NCS DC 87104 | Soil | 0.020 | (0.048) | 9.4 | 44 | 448 | 1.8 | 0.24 | (0.22) | 222 | 9.2 | 62 | | | | |
| NCS DC 87105 | Soil | 0.021 | 0.0092 | 8.2 | 33 | 555 | 1.8 | 0.21 | (0.21) | (85) | 8.9 | 54 | | | | |
| | | Cu | F | Ga | Hg | I | La | Li | Mo | Nb | Ni | Pb | Rb | Sb | | |
| NCS DC 87101 | Soil | 23 | 458 | 17 | 0.014 | (3.1) | 43 | 37 | (1.09) | 15 | 41 | 28 | 111 | 0.73 | | |
| NCS DC 87102 | Soil | 17 | (414) | 12 | 0.031 | | 36 | 27 | (0.94) | 12 | 23 | 21 | 86 | 0.84 | | |
| NCS DC 87103 | Soil | 23 | 383 | 15 | 0.017 | | 38 | 28 | (0.68) | 14 | 22 | 19 | 91 | 0.65 | | |
| NCS DC 87104 | Soil | 17 | 559 | 13 | (0.015) | | 34 | 38 | (0.87) | 11 | 23 | 19 | 82 | 0.78 | | |
| NCS DC 87105 | Soil | 16 | 657 | 13 | (0.018) | | 32 | 25 | (0.71) | 11 | 22 | 20 | 83 | 0.70 | | |
| | | Se | Sn | Sr | Te | Th | U | V | W | Y | Zn | Zr | | | | |
| NCS DC 87101 | Soil | (0.12) | (3.2) | 168 | 0.033 | 12 | 1.9 | 88 | 1.8 | 24 | 68 | 274 | | | | |
| NCS DC 87102 | Soil | 0.14 | 2.9 | 197 | (0.039) | 9.6 | 1.9 | 63 | 1.5 | 21 | 51 | 291 | | | | |
| NCS DC 87103 | Soil | 0.11 | 3.2 | 227 | (0.036) | 10 | 1.9 | 74 | 1.5 | 22 | 48 | 331 | | | | |
| NCS DC 87104 | Soil | (0.12) | 2.4 | 296 | (0.046) | 1.8 | 44 | 65 | 1.4 | 19 | 45 | 258 | | | | |
| NCS DC 87105 | Soil | (0.08) | 2.2 | 231 | (0.053) | 8.9 | 2.4 | 66 | 1.3 | 19 | (39) | 298 | | | | |

Section 4 Mineral & Geology(Powder)

| Number | Name | Chemical Composition($\mu\text{g/g}$) | | | | | | | | | Unit Size (in g) | | | |
|--------------|------------------------|---|--------------------------------|------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|------------------|---------------------|---------------------|---------------------|------------------|---------------------|
| NCS DC 90001 | Ag in Silver ore | Certified value | | | | | | | | | 50 | | | |
| NCS DC 90002 | Ag in Silver ore | 46.9 | | | | | | | | | 50 | | | |
| NCS DC 90003 | Ag in Silver ore | 112 | | | | | | | | | 50 | | | |
| NCS DC 90004 | Ag in Silver ore | 298 | | | | | | | | | 50 | | | |
| NCS DC 90005 | Ag in Silver ore | 446 | | | | | | | | | 50 | | | |
| NCS DC 90006 | Ag in Silver ore | 559 | | | | | | | | | 50 | | | |
| NCS DC 90006 | Ag in Silver ore | 732 | | | | | | | | | 50 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | |
| | | F | Al | Na | SiO ₂ | Fe ₂ O ₃ | SO ₄ ²⁻ | P ₂ O ₅ | CaO | L.O.I | | | | |
| NCS DC 91001 | Cryolite | 55.45 | 17.34 | 21.75 | 0.087 | 0.053 | 0.233 | 0.0034 | (0.606) | 4.53 | 100 | | | |
| NCS DC 91002 | Cryolite | 54.66 | 15.18 | 26.32 | 0.211 | 0.032 | 0.199 | 0.025 | (0.597) | 2.97 | 100 | | | |
| NCS DC 91003 | Cryolite | 53.89 | 13.65 | 29.29 | 0.363 | 0.036 | 0.205 | 0.013 | (0.719) | 2.25 | 100 | | | |
| NCS DC 91004 | Cryolite | 53.2 | 13.16 | 30.26 | 0.389 | 0.033 | 0.293 | 0.037 | (0.508) | 2.12 | 100 | | | |
| NCS DC 91005 | Cryolite | 52.14 | 12.69 | 32.01 | 0.485 | 0.0098 | 0.45 | 0.065 | (0.0062) | 1.4 | 100 | | | |
| NCS DC 91006 | Cryolite | 51.21 | 11.75 | 33.24 | 0.238 | 0.04 | 0.683 | 0.051 | 0.112 | 1.6 | 100 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | | |
| | | F | Al | Na | SiO ₂ | FeO | SO | PO | L.O.I | | | | | |
| NCS DC 91007 | Alaminum fluoride | 60.76 | 30.27 | 0.104 | 0.146 | 0.156 | 0.654 | 0.0295 | 6.00 | 100 | | | | |
| NCS DC 91008 | Alaminum fluoride | 61.79 | 30.7 | 0.097 | 0.104 | 0.132 | 0.585 | 0.0253 | 4.61 | 100 | | | | |
| NCS DC 91009 | Alaminum fluoride | 57.79 | 34.68 | 0.113 | 0.015 | 0.028 | 0.093 | 0.0008 | 0.662 | 100 | | | | |
| NCS DC 91010 | Alaminum fluoride | 60.96 | 30.52 | 0.125 | 0.251 | 0.126 | 0.748 | 0.0265 | 5.48 | 100 | | | | |
| NCS DC 91011 | Alaminum fluoride | 61.51 | 32.28 | 0.121 | 0.429 | 0.021 | 0.627 | 0.1317 | 0.754 | 100 | | | | |
| NCS DC 91012 | Alaminum fluoride | 59.74 | 33.93 | 0.126 | 0.016 | 0.037 | 0.136 | 0.0027 | 0.547 | 100 | | | | |
| NCS DC 91013 | Alaminum fluoride | 60.88 | 33.12 | 0.315 | 0.017 | 0.02 | 0.098 | 0.0013 | 0.467 | 100 | | | | |
| NCS DC 91014 | Alaminum fluoride | 57.72 | 34.76 | 0.113 | 0.014 | 0.015 | 0.104 | 0.0007 | 0.64 | 100 | | | | |
| NCS DC 91015 | Alaminum fluoride | 59.99 | 30.7 | 0.111 | 0.301 | 0.107 | 0.702 | 0.0247 | 5.61 | 100 | | | | |
| NCS DC 91016 | Alaminum fluoride | 64.97 | 31.92 | 0.028 | 0.196 | 0.025 | 0.076 | 0.0275 | 1.25 | 100 | | | | |
| Number | Name | Chemical Composition | | | Unit Size (in g) | | | | | | | | | |
| | | Au(ng/g) | Au(g/T) | Ag(g/T) | | | | | | | | | | |
| NCS DC 93003 | Gold Ore | 3.4 | | | 500 | | | | | | | | | |
| NCS DC 93004 | Gold Ore | 52 | | | 500 | | | | | | | | | |
| NCS DC 93006 | Gold Ore | | 57.2 | 43.4 | 1000 | | | | | | | | | |
| NCS DC 93007 | Gold Ore | | 37.3 | 26.2 | 1000 | | | | | | | | | |
| NCS DC 93008 | Gold Ore | | 20.9 | 63.1 | 750 | | | | | | | | | |
| NCS DC 93009 | Gold Ore | | 2.5 | 7.8 | 500 | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (in g) | | | | |
| | | Mo | SiO ₂ | P | Cu | Pb | As | Ca | | | | | | |
| NCS DC 93010 | Molybdenum concentrate | 40.83 | 22.07 | 0.013 | 0.26 | 0.46 | 0.016 | 0.46 | 50 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) |
| | | TFe | FeO | SiO ₂ | Al ₂ O ₃ | CaO | MgO | Mn | TiO ₂ | P | S | Na ₂ O | K ₂ O | |
| NCS DC 93023 | Magnetite | 61.34 | 29.68 | 12.36 | 0.45 | 0.64 | (0.6) | 0.056 | 0.064 | 0.036 | 0.494 | 0.012 | 0.018 | 100 |
| NCS DC 93024 | Magnetite | 68.02 | 30.50 | 4.58 | 0.34 | 0.35 | 0.19 | 0.017 | 0.056 | 0.017 | 0.301 | 0.012 | 0.018 | 100 |
| NCS DC 93025 | Magnetite | 64.17 | 31.34 | 9.43 | 0.29 | 0.56 | 0.49 | 0.032 | 0.049 | 0.033 | 0.624 | 0.011 | 0.012 | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (in g) | | | | |
| | | SiC | Fe ₂ O ₃ | F.C. | F.Si | SiO ₂ | Al ₂ O ₃ | CaO | MgO | | | | | |
| NCS DC 93026 | Silicon Carbide | 84.09 | 0.86 | 1.71 | 1.45 | 6.15 | 1.41 | 0.17 | 0.082 | 50 | | | | |
| NCS DC 93027 | Silicon Carbide | 90.86 | 1.12 | 3.48 | 0.24 | 2 | 0.77 | 0.47 | 0.039 | 50 | | | | |
| NCS DC 93028 | Silicon Carbide | 97.87 | 0.39 | 0.48 | 0.18 | 0.55 | 0.1 | 0.055 | 0.008 | 50 | | | | |

Section 5 Slag, Refractory(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
|--------------|-------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------|---------------------|-------------------------------|-------------------------------|---------------------|-------------------------------|--------------------------------|-------------------------------|---------------------|---------------------|
| | | TFe | SiO ₂ | Al ₂ O ₃ | MnO | FeO | S | TiO ₂ | MgO | CaO | TCa | P ₂ O ₅ | F | CaF | | |
| NCS HC 13804 | Converter Slag | 13.38 | 14.91 | 1.78 | 1.86 | 12.33 | | 0.42 | 9.28 | | 37.64 | 1.02 | | 1.41 | 100 | |
| NCS HC 13805 | Open Hearth Slag | 34.33 | 8.91 | 3.92 | 2.01 | 36.55 | | 0.32 | 21.15 | | | 0.87 | | | 100 | |
| NCS HC 13806 | Electric Furnace Slag | 13.11 | 21.35 | 4.00 | 13.16 | 15.25 | | 0.18 | 15.18 | | 16.22 | 0.125 | 0.17 | | 100 | |
| NCS HC 13807 | Electric Furnace Slag | 2.26 | 24.77 | 8.72 | 2.39 | 1.89 | | 0.25 | 15.60 | | 28.87 | 0.030 | 0.82 | | 100 | |
| NCS HC 13808 | Blast Furnace Slag | 0.71 | 36.10 | 7.73 | 0.100 | 0.63 | 0.606 | 0.37 | 13.92 | 39.33 | | 0.026 | | | 100 | |
| NCS HC 13810 | Blast Furnace Slag | 0.64 | 34.08 | 7.08 | 0.089 | 0.58 | 0.536 | 0.36 | 16.97 | 38.57 | | 0.037 | | | 100 | |
| NCS HC 13811 | Open Hearth Slag | 29.44 | 23.35 | 4.47 | 2.32 | 35.40 | 0.050 | 0.51 | 13.19 | 18.11 | | 0.91 | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | | |
| | | TFe | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | TiO ₂ | P ₂ O ₅ | S | FeO | | | | | |
| NCS HC 13825 | Blast Furnace Slag | 0.78 | 30.95 | 7.84 | 36.50 | 20.77 | 0.077 | 0.36 | 0.049 | 0.535 | 0.60 | | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | | | | |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | CaO | MgO | K ₂ O | Na ₂ O | TiO ₂ | P | | | | | | |
| NCS HC 14807 | Mullite | 51.43 | 43.62 | 1.14 | 0.23 | 0.21 | 1.62 | 0.46 | 0.65 | 0.062 | | | | | 80 | |
| NCS HC 14808 | Mullite | 37.41 | 57.47 | 0.46 | 0.15 | 0.14 | 1.69 | 0.46 | 1.45 | 0.022 | | | | | 80 | |
| NCS HC 14809 | Mullite | 21.81 | 72.39 | 0.93 | 0.19 | 0.42 | 0.24 | 0.16 | 3.64 | 0.043 | | | | | 80 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | | |
| | | TFe | SiO ₂ | Al ₂ O ₃ | MnO | FeO | S | TiO ₂ | MgO | CaO | K ₂ O | Na ₂ O | P | | | |
| NCS HC 15803 | Blast Furnace Slag | 1.76 | 35.00 | 13.93 | 0.175 | 2.16 | 0.98 | 0.51 | 5.61 | 39.66 | 0.42 | 0.26 | 0.0066 | | 80 | |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (in g) | | | | | | | | |
| | | C | SiO ₂ | Mn | P | S | Fe | | | | | | | | | |
| NCS HC 15804 | Manganese-rich slag | 0.014 | 25.16 | 44.42 | 0.0032 | 0.32 | 0.22 | | | | | | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | |
| | | TFe | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | TiO ₂ | P ₂ O ₅ | S | TCa | P | V ₂ O ₅ | | | |
| NCS HC 18806 | Blast Furnace Slag | 0.60 | 32.75 | 14.11 | 38.84 | 8.46 | 0.30 | 2.63 | 0.008 | 1.13 | | | | | 100 | |
| NCS HC 18807 | Blast Furnace Slag | 1.10 | 33.04 | 16.48 | 35.77 | 8.77 | 0.74 | 0.73 | 0.009 | 0.90 | | | | | 100 | |
| NCS HC 18808 | Converter slag | 24.55 | 13.44 | 1.25 | | 11.66 | 3.34 | 2.22 | 2.00 | 0.13 | 24.10 | | | | 100 | |
| NCS HC 18809 | Slag | 0.30 | 16.50 | 21.94 | | 6.55 | 0.18 | 1.03 | 0.024 | 0.69 | 35.21 | | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | TFe | SiO ₂ | Al ₂ O ₃ | MnO | P | S | Cu | TiO ₂ | K ₂ O | Na ₂ O | MgO | CaO | V ₂ O ₅ | | |
| NCS HC 19805 | V Ti Blast Furnace Slag | 0.80 | 22.67 | 13.85 | 0.74 | | 0.234 | | | | | 9.05 | 25.57 | 0.44 | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | TFe | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | TiO ₂ | S | V ₂ O ₅ | F | P | Cr ₂ O ₃ | Mfe | | |
| NCS HC 19810 | V Slag | 31.26 | 18.25 | 1.25 | 2.04 | 1.9 | 10.67 | 10.02 | 0.052 | 17.2 | | 0.046 | 0.93 | 0.22 | 80 | |
| NCS HC 19812 | V Slag | 32.16 | 18.26 | 2.05 | 3.19 | 1.83 | 9.05 | 9.15 | 0.066 | 15.79 | | 0.064 | 0.94 | 0.24 | 80 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | | | | |
| | | TFe | TiO ₂ | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | S | | | | | | | |
| NCS HC 19813 | High-Titanium Slag | 6.43 | 77.66 | 5.50 | 2.64 | 1.52 | 5.28 | 1.08 | 0.118 | | | | | | 100 | |
| NCS HC 19814 | High-Titanium Slag | 1.08 | 84.94 | 4.13 | 3.04 | 1.83 | 7.27 | 0.74 | 0.247 | | | | | | 100 | |
| NCS HC 19815 | High-Titanium Slag | 1.02 | 94.69 | 1.92 | 2.62 | 0.287 | 2.67 | 1.21 | 0.166 | | | | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (in g) | | | | | | |
| | | Mn | Fe | P | SiO ₂ | Al ₂ O ₃ | CaO | MgO | S | | | | | | | |
| NCS HC 25801 | Rich Slag-Manganese | 35.31 | 1.77 | 0.56 | 33.47 | 1.91 | 7.79 | 3.99 | 0.66 | | | | | | 50 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | | |
| | | SiO ₂ | Al ₂ O ₃ | CaO | MgO | MnO | TiO ₂ | TFe | S | P ₂ O ₅ | Na ₂ O | K ₂ O | | | | |
| NCS HC 28801 | Blast Furnace Slag | 34.65 | 13.83 | 37.95 | 9.66 | 0.382 | 0.616 | 0.253 | 1.03 | 0.0072 | 0.40 | 0.58 | | | 80 | |
| NCS HC 28802 | Blast Furnace Slag | 34.79 | 13.52 | 39.91 | 8.68 | 0.489 | 0.630 | 0.23 | 0.976 | 0.0082 | 0.35 | 0.50 | | | 80 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | | | | |
| | | TFe | CaO | SiO ₂ | MgO | Al ₂ O ₃ | MnO | TiO ₂ | P ₂ O ₅ | S | | | | | | |
| NCS HC 28803 | Blast Furnace Slag | 0.92 | 36.26 | 31.82 | 9.92 | 16.85 | 0.78 | 0.52 | 0.018 | 0.75 | | | | | 80 | |
| NCS HC 28804 | Blast Furnace Slag | 2.01 | 37.13 | 31.18 | 7.52 | 16.26 | 1.23 | 0.58 | 0.043 | 0.79 | | | | | 80 | |
| NCS HC 28805 | Blast Furnace Slag | 0.76 | 39.20 | 34.91 | 9.27 | 12.80 | 0.090 | 0.42 | 0.012 | 0.90 | | | | | 80 | |

Section 5 Slag, Refractory(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | Unit Size (in g) | | | | | | | |
|--------------|--------------------------------|--------------------------------|-------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|------------------|-------------------------------|---------------------|---------------------|-------|-------|---------------------|
| | | FeO | SiO ₂ | Al ₂ O ₃ | CaO | Sn | | | | | | | | |
| NCS HC 35801 | Sn Slag | 46.18 | 19.61 | 7.36 | 4.12 | 11.96 | 70 | | | | | | | |
| NCS HC 35802 | Sn Slag | 22.22 | 37.49 | 9.32 | 19.76 | 2.32 | 70 | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (in g) | | | | |
| | | SiO ₂ | TCa | Na ₂ O | Al ₂ O ₃ | MgO | FC | TC | F* | | | | | |
| NCS HC 26801 | Continuous Casting mold powder | 18.96 | 12.89 | 9.86 | 16.99 | 1.39 | 18.14 | 19.97 | 4.47 | 50 | | | | |
| NCS HC 26802 | Continuous Casting mold powder | 23.08 | 17.93 | 2.94 | 14.14 | 5.86 | 9.94 | 12.71 | 3.86 | 50 | | | | |
| NCS HC 26803 | Continuous Casting mold powder | 30.1 | 30.78 | 0.52 | 2.14 | 1.3 | 4.06 | 5.98 | 10.59 | 50 | | | | |
| NCS HC 26804 | Continuous Casting mold powder | 34.95 | 19.13 | 4.99 | 5.3 | 0.78 | 14.49 | 15.86 | 5.15 | 50 | | | | |
| NCS HC 26805 | Continuous Casting mold powder | 41.31 | 21.46 | 4.07 | 6.93 | 3.26 | 1.57 | 3.06 | 4.79 | 50 | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | | | | |
| | | S | SiO ₂ | CaO | TCa | MgO | Al ₂ O ₃ | TFe | | | | | | |
| NCS HC 28806 | Slag | 1.15 | 30.36 | 37.53 | - | 10.8 | 16.92 | 0.211 | 100 | | | | | |
| NCS HC 28807 | Slag | 0.134 | 14.54 | - | 32.32 | 7.27 | 3.67 | 13.54 | 100 | | | | | |
| NCS HC 28808 | Slag | 0.885 | 29.62 | 35.71 | - | 10.92 | 18.05 | 0.48 | 100 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | | | | |
| | | K ₂ O | Na ₂ O | MnO | P ₂ O ₅ | TiO ₂ | FeO | F | | | | | | |
| NCS HC 28806 | Slag | 0.46 | 0.39 | 0.414 | 0.013 | 0.762 | 0.35 | - | 100 | | | | | |
| NCS HC 28807 | Slag | 0.033 | 0.057 | 4.06 | 1.72 | 1.13 | 10.44 | 0.76 | 100 | | | | | |
| NCS HC 28808 | Slag | 0.42 | 0.36 | 0.542 | 0.027 | 0.753 | 0.55 | - | 100 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | | |
| | | TFe | TCa | SiO ₂ | MgO | Al ₂ O ₃ | MnO | TiO ₂ | P ₂ O ₅ | S | | | | |
| NCS HC 28809 | Converter Slag | 13.50 | 32.65 | 15.40 | 7.75 | 4.38 | 2.30 | 1.02 | 1.67 | 0.195 | 80 | | | |
| NCS HC 28810 | Converter Slag | 16.52 | 33.35 | 14.45 | 7.1 | 1.76 | 2.78 | 1.25 | 1.60 | 0.120 | 80 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) |
| | | Al ₂ O ₃ | CaO | MgO | P ₂ O ₅ | Fe ₂ O ₃ | TiO ₂ | MnO | SiO ₂ | K ₂ O | Na ₂ O | L.O.L | C | |
| NCS HC 28811 | Bauxite | 46.52 | 0.69 | 0.37 | 0.35 | 14.01 | 1.36 | 0.13 | 22.96 | 0.25 | 0.1 | 12.75 | 0.2 | 50 |
| NCS HC 28812 | Bauxite | 60.41 | 0.51 | 0.26 | 0.3 | 9.69 | 2.22 | 0.082 | 17.82 | 0.22 | 0.07 | 7.96 | 0.14 | 50 |
| NCS HC 28813 | Bauxite | 70.28 | 0.37 | 0.18 | 0.25 | 6.64 | 2.85 | 0.053 | 14.2 | 0.2 | 0.051 | 4.57 | 0.099 | 50 |
| NCS HC 28814 | Bauxite | 83.07 | 0.22 | 0.088 | 0.18 | 2.71 | 3.64 | 0.011 | 9.69 | 0.17 | 0.022 | 0.15 | 0.05 | 50 |
| NCS HC 28815 | Bauxite | 88.55 | 0.15 | 0.073 | 0.23 | 1.75 | 3.69 | | | 0.11 | 0.017 | | 0.018 | 50 |

Section 6 Gas in Metal

| Number | Name | Chemical Composition(Percent) | | Unit Size (in g or pellet) | Form | | | |
|---------------|----------------------------|-------------------------------|--------|-------------------------------|---------------------|------------------|---------------------|------|
| | | C | S | | | | | |
| NCS NS 11003 | C&S in Steel | 0.322 | 0.020 | 150 | chip | | | |
| NCS NS 11006 | C&S in Steel | 0.097 | 0.021 | 100 | ball | | | |
| NCS NS 11007 | C&S in Steel | 0.146 | 0.013 | 100 | ball | | | |
| NCS NS 11010 | C&S in Steel | 0.703 | 0.010 | 100 | ball | | | |
| NCS NS 11011 | C&S in Steel | 0.235 | 0.039 | 100 | chip | | | |
| NCS NS 11012 | Pure Iron | 0.0016 | 0.0063 | 100 | chip | | | |
| NCS NS 11013 | Pure Iron | 0.0066 | 0.0056 | 150 | chip | | | |
| NCS NS 11015a | Pure Iron | 0.0030 | 0.0019 | 100 | chip | | | |
| NCS NS 11026 | C&S in Steel | 0.041 | 0.0039 | 100 | chip | | | |
| NCS NS 11039 | C&S in Steel | 0.0051 | 0.0058 | 100 | chip | | | |
| NCS NS 11040 | C&S in Steel | 0.019 | 0.0116 | 100 | chip | | | |
| NCS NS 11041 | C&S in Steel | 0.004 | 0.0053 | 100 | chip | | | |
| Number | Name | Chemical Composition(µg/g) | | Unit Size (in g) | Form | | | |
| | | N | O | | | | | |
| NCS NS 11020 | O, N, in steel | 84 | 112 | 50 | D4.0×5.0mm | | | |
| NCS NS 11022 | O, N, in steel | 826 | 39 | 50 | D4.0×5.0mm | | | |
| NCS NS 11037 | O, N, in steel | 1090 | 66 | 50 | D4.0×5.0mm | | | |
| NCS NS 11030 | O in Copper | | 2.8 | | D6.0×110mm | | | |
| NCS NS 11031 | O in Copper | | 10 | 20 | D4.8×6.5mm | | | |
| NCS NS 11032 | O in Copper | | 18 | 20 | D4.8×6.5mm | | | |
| NCS NS 11033 | O in Copper | | 135 | 20 | D4.8×6.5mm | | | |
| NCS NS 11035 | O in Copper | | 479 | 20 | D4.8×6.5mm | | | |
| NCS NS 11036 | O in Copper | | 208 | 20 | D4.8×6.5mm | | | |
| NCS NS 11038 | O in Copper | | 376 | 25 | D4.8×6.5mm | | | |
| Number | Name | Chemical Composition(Percent) | | | | | Unit Size (in g) | Form |
| | | O(%) | N(%) | H(%) | Sample weight | Sample size (mm) | | |
| NCS NS 11043 | O, N in steel | 0.0041 | 0.0381 | 0.00005 | 0.5g | 6.35 | 50 pieces | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | Form | | |
| | | O | N | H | Sample Weight(g) | Sample Size(mm) | | |
| NCS NS 11044 | O, N, H in Stainless steel | 0.0025 | 0.058 | 0.00020 | 1.0±0.1 | D6.35 | | |
| NCS NS 11045 | O, N, H in Stainless steel | 0.0048 | 0.026 | 0.00020 | 1.0±0.1 | D6.35 | | |
| NCS NS 11046 | N in Stainless steel | | 0.0067 | | 1.0±0.1 | D6.35 | | |
| Number | Name | Chemical Composition(Percent) | | Unit Size (in g) | Form | | | |
| | | C | S | | | | | |
| NCS NS 13001 | C&S in Steel | 2.51 | 0.020 | 100 | chip | | | |
| NCS NS 13005 | C&S in Steel | 0.485 | 0.024 | 100 | chip | | | |
| NCS NS 13008 | C&S in Steel | 0.644 | 0.068 | 100 | chip | | | |
| Number | Name | Chemical Composition(Percent) | | Unit Size (g or pellet) | Form | | | |
| | | N | | | | | | |
| NCS NS 13009 | N in Steel | 0.0078 | | 100 | chip | | | |
| NCS NS 13010 | N in Steel | 0.0096 | | 100 | chip | | | |
| NCS NS 13011 | N in Steel | 0.0099 | | 100 | chip | | | |
| NCS NS 13012 | N in Steel | 0.012 | | 100 | chip | | | |

Section 6 Gas in Metal

| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | Form | |
|---------------|-----------------|-------------------------------|--------------------|----------------------|--------------------------|---------------------|------|
| | | C | S | | | | |
| NCS NS 13020 | C in Steel | 0.1 | | | 100 | chip | |
| NCS NS 13021 | C in Steel | 0.21 | | | 100 | chip | |
| NCS NS 13022 | C in Steel | 0.37 | | | 100 | chip | |
| NCS NS 13023 | C in Steel | 0.48 | | | 100 | chip | |
| NCS NS 13024 | C in Steel | 0.59 | | | 100 | chip | |
| NCS NS 13025 | C in Steel | 0.725 | | | 100 | chip | |
| NCS NS 13026 | C in Steel | 0.81 | | | 100 | chip | |
| NCS NS 13027 | S in Steel | | 0.0105 | | 100 | chip | |
| NCS NS 13028 | S in Steel | | 0.017 | | 100 | chip | |
| NCS NS 13029 | S in Steel | | 0.037 | | 100 | chip | |
| NCS NS 13032 | S in Steel | | 0.096 | | 100 | chip | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g or) | Form | |
| | | N | | | | | |
| NCS NS 13033 | N in Steel | 0.0043 | | | 150 | chip | |
| NCS NS 13034 | N in Steel | 0.0044 | | | 150 | chip | |
| NCS NS 13036 | N in Steel | 0.0064 | | | 150 | chip | |
| NCS NS 13037 | N in Steel | 0.0067 | | | 150 | chip | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g or) | Form | |
| | | N | | | | | |
| NCS NS 14001 | N in Steel | 0.0081 | | | 100 | chip | |
| NCS NS 14002 | N in Steel | 0.0040 | | | 100 | chip | |
| NCS NS 14003 | N in Steel | 0.0048 | | | 100 | chip | |
| Number | Name | Chemical Composition | | | Unit Size (in g) | Form | |
| | | C(%) | S(%) | | | | |
| NCS NS 16001 | C.S in pig iron | 2.02 | 0.0014 | | 100 | chip | |
| NCS NS 16002 | C.S in pig iron | 3.60 | 0.0186 | | 100 | chip | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | Form | |
| | | O (%) | N (%) | Sample weight | | | |
| NCS NS 18001 | O, N in steel | 0.0038 | 0.0063 | 0.5g | 50 | ball | |
| Number | Name | Chemical Composition | | | Unit Size (in g) | Form | |
| | | [H] ppm | Weight of ball (g) | | | | |
| NCS NS 20001a | H in steel | 6.00 | 1.034 | | 20 | ball | |
| NCS NS 20025b | H in steel | 1.1 | 1.034 | | 20 | ball | |
| Number | Name | Chemical Composition | | | Unit Size (in g) | Form | |
| | | O ppm | N ppm | | | | |
| NCS NS 20035b | O, N in steel | 22 | 61 | | 50 | ball | |
| Number | Name | Chemical Composition(Percent) | | | | Unit Size (in g) | Form |
| | | O(%) | N(%) | Mass of the ball (g) | Diameter of the ball(mm) | | |
| NCS NS 20048 | O, N in steel | 0.0019 | 0.0070 | 1.056 | 6.35 | 50 ball | |
| NCS NS 20049 | O, N in steel | 0.0058 | 0.0040 | 1.056 | 6.35 | 50 ball | |
| NCS NS 20050 | O, N in steel | 0.0166 | 0.0026 | 1.047 | 6.35 | 50 ball | |
| Number | Name | Chemical Composition | | | Unit Size (in g) | Form | |
| | | O ppm | N ppm | | | | |
| NCS NS 20035b | O, N in steel | 22 | 61 | | 50 | ball | |

Section 6 Gas in Metal

| Number | Name | Chemical Composition(Percent) | | Unit Size (in g) | Form | | |
|----------------|---------------------------|-------------------------------|--------|------------------|-------------------|------|------|
| | | C | S | | | | |
| NCS NS 18002 | C, S in Steel | 0.031 | 0.0084 | 100 | chip | | |
| NCS NS 18003 | C, S in Steel | 0.082 | 0.035 | 100 | chip | | |
| NCS NS 18004 | C, S in Steel | 0.171 | 0.0102 | 100 | chip | | |
| NCS NS 18005 | C, S in Steel | 0.204 | 0.022 | 100 | chip | | |
| NCS NS 18006 | C, S in Steel | 0.282 | 0.033 | 100 | chip | | |
| NCS NS 18007 | C, S in Steel | 0.312 | 0.026 | 100 | chip | | |
| NCS NS 18008 | C, S in Steel | 0.376 | 0.028 | 100 | chip | | |
| NCS NS 18009 | C, S in Steel | 0.415 | 0.020 | 100 | chip | | |
| NCS NS 18010 | C, S in Steel | 0.455 | 0.019 | 100 | chip | | |
| NCS NS 18011 | C, S in Steel | 0.543 | 0.012 | 100 | chip | | |
| NCS NS 18012 | C, S in Steel | 0.610 | 0.0095 | 100 | chip | | |
| NCS NS 18013 | C, S in Steel | 0.890 | 0.022 | 100 | chip | | |
| NCS NS 18014 | C, S in Steel | 0.990 | 0.0041 | 100 | chip | | |
| NCS NS 18015 | C, S in Steel | 1.09 | 0.018 | 100 | chip | | |
| NCS NS 18016 | C, S in Steel | 1.19 | 0.0080 | 100 | chip | | |
| Number | Name | Chemical Composition(Percent) | | Unit Size (in g) | Form | | |
| | | O | N | Ball weight (g) | Ball diameter(mm) | | |
| NCS NS 21003b | O and N in Bearing Steel | 0.0012 | 0.0055 | 1.0673±0.0010 | 6.26 | 50 | ball |
| NCS NS 21004a | O and N in Bearing Steel | 0.0022 | 0.0044 | 1.0673±0.0010 | 6.26 | 50 | ball |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | Form | |
| | | O | N | H | | | |
| NCS NS 21012-1 | O, N, H in Titanium Alloy | 0.076 | 0.0090 | 0.0010 | | | bar |
| NCS NS 21012-2 | O, N, H in Titanium Alloy | 0.096 | 0.0052 | 0.0009 | | | bar |
| Number | Name | Chemical Composition(Percent) | | Unit Size (in g) | Form | | |
| | | N | | | | | |
| NCS NS 21013-1 | N in Steel | 0.075 | | 100 | chip | | |
| NCS NS 21013-2 | N in Steel | 0.175 | | 100 | chip | | |
| NCS NS 21013-3 | N in Steel | 0.222 | | 100 | chip | | |
| NCS NS 21013-4 | N in Steel | 0.313 | | 100 | chip | | |
| NCS NS 21013-5 | N in Steel | 0.540 | | 100 | chip | | |
| NCS NS 21013-6 | N in Steel | 0.66 | | 100 | chip | | |
| Number | Name | Chemical Composition | | Unit Size (in g) | Form | | |
| | | [H] ppm | | | | | |
| NCS NS 20042 | H in stainless steel | 3.55 | | 20 | ball | | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size | Form | |
| | | O | N | H | | | |
| NCS NS 20043-1 | Titanium alloy | 0.18 | 0.014 | 0.0018 | 100×3×2mm | | |
| NCS NS 20043-2 | Titanium alloy | 0.31 | 0.018 | 0.0014 | 100×3×2mm | | |
| NCS NS 20043-3 | Titanium alloy | 0.13 | 0.0093 | 0.0010 | 100×3×2mm | | |
| NCS NS 20043-4 | Titanium alloy | 0.16 | 0.0089 | 0.00295 | 100×3×2mm | | |
| Number | Name | Chemical Composition(µg/g) | | Unit Size (in g) | Form | | |
| | | O | N | | | | |
| NCS NS 21002 | O N in Stainless Steel | 8.4±0.6 | 57±1 | 50 Pieces | ball | | |
| NCS NS 21006 | O N in G Cr15 | 94.3 | 264 | 50 Pieces | ball | | |
| Number | Name | Chemical Composition(Percent) | | Unit Size (in g) | Form | | |
| | | C | S | | | | |
| NCS NS 21008 | C S in Bearing Steel | 0.977 | 0.018 | 50 | ball | | |
| Number | Name | Chemical Composition(Percent) | | Unit Size (in g) | Form | | |
| | | C | S | | | | |
| NCS NS 28004 | C S in Steel | 0.416 | 0.022 | 100 | chip | | |
| NCS NS 28005 | C S in Steel | 0.462 | 0.0096 | 100 | chip | | |

Section 6 Gas in Metal

| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | Form |
|---------------|-----------------------|-------------------------------|--------|---------------------|---------------------------|------|
| NCS NS 28021 | C S in Steel | C | S | | 100 | chip |
| | | 0.16 | 0.028 | | | |
| NCS NS 28025 | C S in Steel | 0.330 | 0.024 | | 100 | chip |
| NCS NS 28027 | C S in Steel | 0.523 | 0.017 | | 100 | chip |
| NCS NS 28029 | C S in Steel | 0.465 | 0.020 | | 100 | chip |
| NCS NS 28031 | C S in Steel | 0.985 | 0.012 | | 100 | chip |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | Form |
| | | O(%) | N(%) | | | |
| NCS NS 41005a | O N in steel | 0.00087 | 0.0084 | | 20/50 pieces | |
| NCS NS 41005b | O N in steel | 0.00080 | 0.0084 | | 20/50 pieces | |
| NCS NS 41006 | O N in steel | 0.0108 | 0.0027 | | 20 pieces | |
| NCS NS 41007 | O N in steel | 0.0029 | 0.0037 | | 20 pieces | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | Form |
| | | O | N | mass(g/p) | | |
| NCS NS 28036 | O and N in Steel | 0.0065 | 0.0067 | 1 | 50 | ball |
| NCS NS 28037 | O and N in Steel | 0.0035 | 0.0081 | 1 | 50 | ball |
| NCS NS 28037a | O and N in Steel | 0.0043 | 0.0100 | 1 | 50 | ball |
| NCS NS 28038 | O and N in Steel | 0.0037 | 0.0253 | 0.5 | 50 | ball |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | |
| | | O | N | | | |
| NCS NS 57101 | O N in titanium Alloy | 0.045 | 0.011 | | 0.1g/piece,100pieces/unit | |
| NCS NS 57102 | O N in titanium Alloy | 0.073 | 0.007 | | 0.1g/piece,100pieces/unit | |
| NCS NS 57103 | O N in titanium Alloy | 0.121 | 0.017 | | 0.1g/piece,100pieces/unit | |
| NCS NS 57104 | O N in titanium Alloy | 0.309 | 0.040 | | 0.1g/piece,100pieces/unit | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | Form |
| | | C | S | | | |
| NCS NS 93004 | C. S in Steel | 0.293 | 0.040 | | 100 | chip |
| NCS NS 93005 | C. S in Steel | 0.357 | 0.018 | | 100 | chip |
| NCS NS 93006 | C. S in Steel | 0.428 | 0.032 | | 100 | chip |
| NCS NS 93008 | C. S in Steel | 0.251 | 0.022 | | 100 | chip |
| NCS NS 93009 | C. S in Steel | 0.310 | 0.031 | | 100 | chip |
| NCS NS 93011 | C. S in Steel | 0.512 | 0.0095 | | 100 | chip |
| NCS NS 93012 | C. S in Steel | 0.375 | 0.046 | | 100 | chip |
| NCS NS 93014 | C. S in Steel | 0.195 | 0.030 | | 100 | chip |
| Number | Name | Chemical Composition | | Unit Size (in g) | Form | |
| | | [H] ppm | N(%) | | | |
| NCS NS 57011a | H in Titanium alloy | 85 | | 10 | stick | |
| NCS NS 57012 | N in Titanium Alloy | | 0.013 | 10 | stick | |

Section 7 Nonferrous Metal(Chip)

1)Aluminum & Aluminum Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | |
|--------------|----------------|-------------------------------|--------|--------|--------|-------|--------|-------|---------------------|--------|-------|---------------------|---------------------|-----|
| | | Cu | Sn | Pb | Zn | Mg | Ni | Mn | Fe | Ti | Si | Be | | Zr |
| NCS HC 50920 | Aluminum Alloy | 1.14 | 0.0071 | 0.038 | 0.084 | 1.44 | 1.04 | 0.38 | 0.19 | | 12.74 | | | 100 |
| NCS HC 50922 | Aluminum Alloy | | | | | 0.028 | | 1.53 | 0.282 | 0.117 | 0.216 | | | 100 |
| NCS HC 50923 | Aluminum Alloy | 4.43 | 0.0075 | 0.044 | 0.152 | 0.028 | | 0.094 | 0.662 | 0.154 | 1.22 | | 0.101 | 100 |
| NCS HC 50924 | Aluminum Alloy | 0.114 | | | 0.141 | 4.96 | | 0.274 | 0.392 | 0.142 | 1.22 | | | 100 |
| NCS HC 50928 | Aluminum Alloy | 3.99 | 0.0096 | 0.041 | 0.19 | 0.085 | | 0.23 | 0.26 | | 7.21 | | | 100 |
| NCS HC 50931 | Aluminum Alloy | 0.28 | | | 12.80 | 0.14 | | 0.26 | 0.27 | | 6.93 | | | 100 |
| NCS HC 50932 | Aluminum Alloy | 1.45 | margin | 0.016 | 0.042 | 0.18 | 0.58 | 0.33 | 0.20 | 0.12 | 5.12 | 0.037 | | 100 |
| NCS HC 50933 | Aluminum Alloy | 1.57 | margin | 0.016 | 0.043 | 0.12 | 0.60 | 0.25 | 0.26 | 0.1 | 9.57 | 0.17 | | 100 |
| NCS HC 50934 | Aluminum Alloy | 0.096 | margin | 0.0085 | 0.043 | 1.62 | 0.60 | 0.088 | 0.18 | | 5.87 | | | 100 |
| NCS HC 50937 | Aluminum Alloy | 3.98 | | | 0.175 | 1.49 | | | 0.482 | | 0.673 | | | 100 |
| NCS HC 50938 | Aluminum Alloy | 0.197 | | | 0.127 | 10.38 | | 0.063 | 0.201 | 0.050 | 0.343 | | | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | | | | |
| | | Cu | Sn | Fe | As | Sb | Bi | | | | | | | |
| NCS HC 50942 | Aluminum Alloy | 0.376 | 9.81 | 0.0023 | 0.068 | 14.88 | 0.072 | | | | | | | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | |
| | | Cu | Zn | Mg | Ni | Cr | Mn | Fe | Sb | Ti | Si | | | |
| NCS HC 53902 | Aluminum Alloy | 0.095 | 0.10 | 0.02 | | | 1.38 | 0.38 | | | 0.18 | | | 50 |
| NCS HC 53906 | Aluminum Alloy | 4.12 | 0.25 | 0.52 | 0.083 | | 0.35 | 0.44 | | 0.051 | 0.60 | | | 100 |
| NCS HC 53907 | Aluminum Alloy | 6.31 | 0.11 | 0.086 | 0.094 | 0.19 | 0.39 | 0.26 | | 0.038 | 0.45 | | | 100 |
| NCS HC 53908 | Aluminum Alloy | 0.098 | 0.08 | 2.30 | 0.048 | | 0.29 | 0.55 | | 0.096 | 0.40 | | | 100 |
| NCS HC 53913 | Aluminum Alloy | 0.11 | 0.16 | 0.055 | 0.0061 | | 0.080 | 0.49 | | 0.012 | 5.55 | | | 100 |
| NCS HC 53914 | Aluminum Alloy | 0.015 | 0.096 | 0.010 | 0.0048 | | 0.20 | 0.48 | | 0.11 | 11.75 | | | 100 |
| NCS HC 53916 | Aluminum Alloy | 1.52 | 6.17 | 2.44 | | 0.17 | 0.39 | 0.23 | | | 0.29 | | | 100 |
| NCS HC 53917 | Aluminum Alloy | 0.21 | 0.053 | 4.98 | 0.011 | | 0.16 | 0.51 | | 0.0098 | 0.40 | | | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | | | | |
| | | Si | Zr | Fe | Cu | Zn | Ti | Mg | | | | | | |
| NCS HC 57903 | Aluminum Alloy | 0.0069 | 0.127 | 0.141 | 2.30 | 6.21 | 0.0196 | 2.21 | | | | | | 50 |

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2)Copper & Copper Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (in g) | | | | | |
|--------------|---------------------|-------------------------------|------|-------|---------------------|--------|--------|--------|--------|---------------------|--------|--------|---------------------|--------|---------------------|
| | | Cu | Al | Sn | Zn | P | Fe | Si | | | | | | | |
| NCS HC 28901 | H68 | 68.55 | | | 31.33 | 0.023 | 0.0105 | | | | | | | 100 | |
| NCS HC 28907 | Q Sn4-0.3 | | | 4.02 | | 0.322 | | | | | | | | 100 | |
| NCS HC 28910 | Q Sn7-0.2 | 92.62 | | 7.11 | | 0.185 | | | | | | | | 100 | |
| NCS HC 28911 | Q Sn6.5-0.1 | | | 6.25 | | 0.21 | | | | | | | | 100 | |
| NCS HC 28912 | Q Sn6.5-0.1 | | | 6.44 | | 0.137 | | | | | | | | 100 | |
| NCS HC 28913 | Q Sn6.5-0.4 | | | 6.35 | | 0.137 | | | | | | | | 100 | |
| NCS HC 28920 | ZQ Al9-2 | | 8.29 | | | | | 0.14 | 2.09 | | | | | 100 | |
| NCS HC 28922 | ZQA10-3-1.5 | | 9.17 | | | | | 2.98 | 1.64 | | | | | 100 | |
| NCS HC 28927 | H68 | 68.52 | | | 31.4 | 0.0023 | 0.0105 | | | | | | | 100 | |
| NCS HC 28931 | Tin Bronze | | | 6.54 | | 0.136 | | | | | | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | Cu | Sn | Pb | Zn | S | P | Ni | Fe | Sb | Bi | Si | | | |
| NCS HC 41904 | ZQ Sn3-7-5-1 | 81.45 | 4.08 | 6.16 | 6.96 | | 1.07 | | | | | | | 100 | |
| NCS HC 41905 | ZQ Sn17-4-4 | 72.25 | 4.24 | 17.62 | 5.37 | | | | | | | | | 100 | |
| NCS HC 41907 | H PB59-1 | 59.10 | | 1.69 | | 0.022 | | | 0.337 | 0.010 | 0.0039 | | | 100 | |
| NCS HC 41909 | Tin-Phosphor Bronze | 93.72 | 5.79 | | | | 0.423 | | | | | | | 150 | |
| NCS HC 41910 | Tin-Phosphor Bronze | 92.85 | 6.82 | | | | 0.238 | | | | | | | 100 | |
| NCS HC 41911 | Tin-Phosphor Bronze | 91.73 | 7.93 | | | | 0.106 | | | | | | | 100 | |
| NCS HC 41912 | Tin-Phosphor Bronze | 93.70 | 5.79 | 0.021 | | | 0.372 | | 0.011 | 0.006 | | 0.001 | | 100 | |
| NCS HC 41924 | Phosphor Bronze | 92.85 | 6.82 | | | | 0.238 | | | | | | | 150 | |
| NCS HC 41925 | Phosphor Bronze | 91.73 | 7.92 | | | | 0.106 | | | | | | | 150 | |
| NCS HC 41926 | Phosphor Bronze | 93.70 | 5.79 | 0.021 | | | 0.372 | | 0.011 | 0.0058 | | 0.0012 | | 150 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | | |
| | | Cu | Al | Sn | Pb | Zn | P | Mn | Fe | As | Sb | Bi | | | |
| NCS HC 43909 | Q Al9-2 | | 9.80 | | | | | | 2.46 | | | | | 80 | |
| NCS HC 43914 | H Sn62-1 | 61.67 | | 0.89 | 0.089 | | 0.0070 | | 0.090 | | 0.0048 | 0.0018 | | 60 | |
| NCS HC 43915 | Q Sn6-6-3 | | | 5.94 | 2.90 | 6.06 | | | | | | | | 60 | |
| NCS HC 43918 | H Sn70-1A | 70.04 | | 0.91 | | | | | | 0.039 | | | | 100 | |
| NCS HC 43919 | H Al177-2A | 77.39 | 2.04 | | | | | | | 0.044 | | | | 100 | |
| NCS HC 43925 | Q Sn6-6-2 | | | 5.94 | 2.90 | 6.06 | | | | | | | | 50 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) |
| | | Cu | Al | Sn | Pb | Zn | Mg | P | Ni | Mn | Fe | As | Sb | Bi | |
| NCS HC 45913 | H Pb59-1 | 58.87 | | | 1.30 | | | | | | 0.022 | | | 100 | |
| NCS HC 45914 | H Te59-1 | 59.22 | 0.46 | 0.54 | | | | | | 0.73 | 0.88 | | | 100 | |
| NCS HC 45915 | Tin Bronze | | | 3.55 | 1.97 | 3.92 | | | | | | | | 100 | |
| NCS HC 45916 | Iron Bronze | 58.00 | 0.26 | 0.54 | 0.19 | | | 0.0076 | | 0.73 | 0.89 | | 0.0091 | 0.0024 | 100 |
| NCS HC 45918 | Aluminum Bronze | | | | 0.019 | 20.81 | 0.033 | 0.0048 | 14.87 | 0.32 | 0.47 | 0.0098 | 0.0020 | 0.0019 | 100 |
| NCS HC 45918 | Aluminum Bronze | 0.146 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (in g) | | | | | |
| | | Cu | Al | Sn | Pb | P | Fe | Sb | Bi | | | | | | |
| NCS HC 50902 | Copper Alloy | 77.05 | 2.35 | | 0.054 | | 0.046 | 0.0043 | 0.0020 | | | | | 100 | |
| NCS HC 50904 | Copper Alloy | 57.54 | | | 0.78 | 0.012 | 0.78 | 0.0082 | 0.0020 | | | | | 100 | |
| NCS HC 50907 | Copper Alloy | 90.31 | | 0.50 | 0.035 | 0.0064 | 0.044 | 0.0043 | 0.0020 | | | | | 100 | |
| NCS HC 50911 | 74-3 | 74.54 | | | 2.82 | 0.0069 | 0.11 | 0.0070 | 0.0018 | | | | | 100 | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | | | | | | | | | | |
| | | Cu | Sn | Sb | | | | | | | | | | | |
| NCS HC 28979 | Ch Pb Sb 14-5 | 0.38 | 5.14 | 14.20 | 100 | | | | | | | | | | |

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3)Lead Base Alloy

| Number | Name | Chemical Composition(Percent) | | | | | Unit Size | | | |
|--------------|-------------------------|-------------------------------|--------|-------|--------|-----------|-----------|-----------|-------|-----------|
| | | Cu | Sn | Pb | Sb | Bi | (in g) | | | |
| NCS HC 28986 | Pb60 Sn40 | 0.027 | 40.54 | 59.02 | 0.354 | 0.056 | 100 | | | |
| NCS HC 28987 | Pb90 Sn10 | | 10.12 | 89.84 | | | 100 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size |
| | | Cu | Al | Sn | Zn | Fe | As | Sb | Bi | (in g) |
| NCS HC 39901 | Lead Base Alloy | 1.63 | | 15.69 | 0.105 | 0.041 | 0.065 | 16.01 | 0.028 | 100 |
| NCS HC 39902 | Lead Base Alloy | 1.25 | | 19.57 | 0.104 | 0.030 | 0.041 | 13.81 | 0.038 | 100 |
| NCS HC 39903 | Lead Base Alloy | 2.62 | 0.0021 | 11.01 | 0.035 | 0.037 | 0.052 | 13.86 | 0.054 | 100 |
| NCS HC 39904 | Lead Base Alloy | 0.5 | | 7.44 | 0.0052 | | 0.095 | 12.02 | 0.069 | 100 |
| NCS HC 39905 | Lead Base Alloy | 0.31 | | 4.81 | 0.0068 | | 0.115 | 10.04 | 0.103 | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size | | |
| | | Cu | Sn | Pb | As | Sb | Bi | (in g) | | |
| NCS HC 41919 | Lead Base Bearing Alloy | 1.98 | 15.97 | 65.73 | 0.014 | 16.09 | 0.024 | 100 | | |
| NCS HC 41920 | Lead Base Bearing Alloy | 2.88 | 5.69 | 76.22 | 0.012 | 15.02 | 0.0075 | 100 | | |
| Number | Name | Chemical Composition(Percent) | | | | Unit Size | | | | |
| | | Cu | Sn | As | Sb | (in g) | | | | |
| NCS HC 50956 | Lead Base Bearing Alloy | 0.38 | 5.16 | 0.15 | 15.94 | 100 | | | | |

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4)Tin Base Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (in g) | | | |
|--------------|---------------------|-------------------------------|--------|--------|------------|--------|--------|---------------------|---------------------|--------|----------|
| | | Cu | Sn | Pb | As | Sb | Bi | | | | |
| NCS HC 28988 | Ch Sn Sb4-4 | 4.54 | | | 0.020 | 4.93 | 0.006 | 100 | | | |
| NCS HC 28989 | Ch Sn Sb8-4 | 4.9 | | | 0.016 | 8.07 | 0.085 | 100 | | | |
| NCS HC 28990 | Ch Sn Sb9-7 | 8.00 | | | 0.027 | 9.00 | 0.008 | 100 | | | |
| NCS HC 28994 | Pb50 Sn50 | | 51.15 | 48.80 | | | | 100 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | |
| | | Cu | Sn | Pb | Zn | Fe | As | Sb | | Bi | Ag |
| NCS HC 35902 | Tin-Lead Solder | 0.030 | | 50.12 | | | | 0.232 | 0.046 | | 100 |
| NCS HC 35903 | Tin-Lead Solder | 0.00090 | 30.12 | | (0.000083) | | 0.0034 | 1.73 | 0.127 | 0.047 | 100 |
| NCS HC 35904 | Tin-Lead Solder | 0.0024 | 39.84 | | (0.000086) | | 0.0019 | 0.809 | 0.024 | 1.08 | 100 |
| NCS HC 35905 | Tin-Lead Solder | 0.0019 | 49.72 | | (0.000086) | | 0.0032 | 0.409 | 0.021 | 3.61 | 100 |
| NCS HC 35907 | Tin-Lead Solder | 0.0062 | 89.81 | | (0.000040) | | 0.013 | 0.036 | 0.0200 | 0.0024 | 100 |
| NCS HC 35908 | Tin-Lead Solder | 0.029 | 3.66 | | 0.000080 | | 0.011 | 6.59 | 0.0045 | 0.0032 | 100 |
| NCS HC 35910 | Tin | 0.029 | 99.79 | 0.076 | | 0.0092 | 0.018 | 0.052 | 0.021 | | stick200 |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | |
| | | Cu | Al | Zn | Mn | Fe | As | Sb | | Bi | |
| NCS HC 39906 | Tin Base Alloy | 2.07 | | 0.0028 | 18.36 | 0.049 | 0.036 | 13.54 | 0.029 | | 100 |
| NCS HC 39907 | Tin Base Alloy | 3.55 | 0.0036 | | 9.30 | 0.038 | 0.070 | 12.03 | 0.064 | | 100 |
| NCS HC 39908 | Tin Base Alloy | 6.36 | 0.0029 | 0.0021 | 12.17 | 0.063 | 0.100 | 9.62 | 0.089 | | 100 |
| NCS HC 39909 | Tin Base Alloy | 6.97 | | 0.0035 | 0.20 | 0.064 | 0.102 | 7.95 | 0.079 | | 100 |
| NCS HC 39910 | Tin Base Alloy | 4.64 | | 0.0087 | 0.41 | 0.120 | | 5.94 | 0.099 | | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (in g) | | | |
| | | Cu | Sn | Pb | As | Sb | Bi | | | | |
| NSC HC41921 | Tin Base Alloy | 4.06 | 86.61 | 1.32 | 0.018 | 7.87 | 0.014 | | | | 100 |
| NSC HC41922 | Tin Base Alloy | 6.72 | 80.27 | 1.20 | 0.020 | 11.81 | 0.012 | | | | 100 |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (in g) | | |
| | | Cu | Pb | Zn | Fe | As | Sb | Bi | | | |
| NCS HC 50945 | Z Ch Sn Sb D12-3-10 | 0.409 | 9.90 | | 0.069 | | | | | | 90 |
| NCS HC 50947 | Tin Alloy | 7.11 | 0.323 | 0.0046 | 0.073 | 0.065 | 9.14 | 0.073 | | | 100 |
| NCS HC 50949 | Tin Alloy | 4.09 | 9.90 | 0.0021 | 0.069 | 0.069 | 12.10 | 0.064 | | | 100 |

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5)Zinc Alloy

| Number | Name | Chemical Composition(Percent) | | | | | Unit Size (in g) | | |
|--------------|------------|-------------------------------|--------|----------|---------|--------|---------------------|---------------------|-----|
| NCS HC 28974 | Z Zn Al4 | Cu | Al | Mg | | | 100 | | |
| | | | 4.84 | 0.083 | | | | | |
| NCS HC 28975 | Z Zn Al4-1 | 1.56 | 4.48 | 0.074 | | | 100 | | |
| Number | Name | Chemical Composition(Percent) | | | | | Unit Size (in g) | | |
| NCS HC 35911 | Zinc oxit | Zn | PbO | Mn | CdO | L.O.I | 30 | | |
| | | 99.67 | 0.0019 | 0.000051 | 0.00066 | 0.387 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (in g) | |
| NCS HC 50955 | Zinc Alloy | Cu | Al | Sn | Pb | Mg | Fe | Cd | 100 |
| | | 3.93 | 7.49 | 0.0049 | 0.0092 | 0.048 | 0.058 | 0.0056 | |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (in g) | |
| NCS HC 52904 | Zinc | Cu | Sn | Pb | Fe | As | Sb | Cd | 200 |
| | | 0.00012 | | 0.0029 | 0.0011 | | | 0.011 | |
| NCS HC 52906 | Zinc | 0.0020 | 0.0022 | 0.319 | 0.030 | 0.0053 | 0.010 | 0.072 | 200 |

Section 7 Nonferrous Metal(Chip)

6)Titanium Alloy & Other

| Number | Name | Chemical Composition($\mu\text{g/g}$) | | | | | | | | | | Unit Size (in g) | | | | |
|--------------|----------------------|---|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------|---------------------|
| | | CeO ₂ | Pr ₆ O ₁₁ | Tb ₄ O ₇ | Dy ₂ O ₃ | SiO ₂ (Base) | CaO | Fe ₂ O ₃ | NiO | CuO | PbO | | | | | |
| NCS HC 44901 | Yttrium Oxide | 4.80 | 10.4 | 10.50 | 21.6 | 34.0 | 8.15 | 6.19 | 9.8 | 1.51 | 2.81 | | | | 10 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (in g) |
| | | Ni | Fe | Co | Mn | | | | | | | | | | | |
| NCS HC 55902 | Tungsten Alloy | 1.51 | 0.813 | 0.102 | 0.030 | | | | | | | | | | | 50 |
| NCS HC 55903 | Tungsten Alloy | 3.00 | 1.63 | 0.302 | 0.040 | | | | | | | | | | | 50 |
| NCS HC 55904 | Tungsten Alloy | 4.50 | 2.43 | 0.400 | 0.050 | | | | | | | | | | | 50 |
| NCS HC 55905 | Tungsten Alloy | 6.01 | 3.22 | 0.502 | 0.060 | | | | | | | | | | | 50 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (in g) | |
| | | C | Si | Cr | Mo | Al | Zr | Ni | Cu | Mn | RE | Zn | V | Fe | | |
| NCS HC 57901 | Rare-Earth Magnesium | | | | | | 0.57 | 0.00093 | 0.00089 | 0.028 | 0.85 | 5.76 | | | 50 | |
| NCS HC 57904 | Titanium Alloy | 0.031 | | 0.060 | 0.059 | 0.14 | 0.056 | | | 0.048 | | | 0.058 | 0.010 | 50 | |
| NCS HC 57905 | Titanium Alloy | 0.0093 | | | | 5.60 | | | | | | | | 0.24 | 50 | |
| NCS HC 57906 | Titanium Alloy | 0.00060 | | | 1.71 | 6.79 | 2.18 | | | | | | 2.25 | 0.040 | 50 | |
| NCS HC 57907 | Titanium Alloy | 0.015 | | 2.95 | | 3.13 | | | | | | | 14.99 | 0.077 | 50 | |
| NCS HC 57908 | Titanium Alloy | 0.0063 | | | | 1.82 | | | | 1.20 | | | | 0.041 | 50 | |
| NCS HC 57909 | Titanium Alloy | 0.013 | | | | 6.20 | | | | | | | 4.02 | 0.17 | 50 | |
| NCS HC 57910 | Titanium Alloy | 0.018 | 0.30 | 1.49 | 2.66 | 6.33 | | | | | | | | 0.46 | 50 | |
| NCS HC 57911 | Titanium Alloy | 0.0084 | 0.29 | | 3.41 | 6.66 | 1.80 | | | | | | | 0.048 | 50 | |
| Number | Name | Chemical Composition($\mu\text{g/g}$) | | | | | | | | | | | | | Unit Size (in g) | |
| | | La ₂ O ₃ | CeO ₂ | Pr ₆ O ₁₁ | Nd ₂ O ₃ | Sm ₂ O ₃ | Gd ₂ O ₃ | Tb ₄ O ₇ | Dy ₂ O ₃ | Ho ₂ O ₃ | Er ₂ O ₃ | Tm ₂ O ₃ | Yb ₂ O ₃ | Lu ₂ O ₃ | | |
| NSC HC 63901 | Europia | 12.8 | 3.4 | 15.2 | 11.8 | 15.3 | 16.8 | 12.2 | 11.3 | 15.0 | 12.6 | 10.2 | 16.3 | 11.6 | 5 | |
| Number | Name | Chemical Composition($\mu\text{g/g}$) | | | | | | | | | | Unit Size (in g) | | | | |
| | | Y ₂ O ₃ | Na ₂ O | SiO ₂ (Acid) | SiO ₂ (Base) | CaO | Fe ₂ O ₃ | NiO | CuO | ZnO | PbO ₂ | | | | | |
| NSC HC 63901 | Europia | 17.2 | 31.1 | 30.0 | (40.5) | 13.0 | 7.2 | 9.6 | 6.7 | 15.6 | 8.0 | | | | | |

Section 8 Nonferrous Metal(Disk)

1) Aluminum & Aluminum Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
|-----------------|-----------------|-------------------------------|-------|--------|-------|--------|--------|---------|-------|-------------------|---------|-------------------|-------------------|
| | | Si | Fe | Cu | Mn | Mg | Ni | Zn | Ti | Pb | Sn | Sr | |
| NCS HS 49701c-1 | Aluminium Alloy | 10.38 | 1.02 | 0.413 | 0.309 | 0.178 | 0.137 | 0.387 | 0.055 | 0.226 | 0.096 | 0.129 | Φ62×30 |
| NCS HS 49701c-2 | Aluminium Alloy | 6.91 | 0.840 | 1.41 | 0.452 | 0.888 | 0.099 | 0.711 | 0.078 | 0.098 | 0.047 | 0.086 | Φ62×30 |
| NCS HS 49701c-3 | Aluminium Alloy | 12.64 | 0.212 | 2.07 | 0.540 | 0.753 | 0.066 | 0.216 | 0.042 | 0.074 | 0.021 | 0.062 | Φ62×30 |
| NCS HS 49701c-4 | Aluminium Alloy | 3.49 | 0.324 | 3.56 | 0.970 | 1.21 | 0.054 | 0.977 | 0.112 | 0.033 | 0.0079 | 0.039 | Φ62×30 |
| NCS HS 49701c-5 | Aluminium Alloy | 7.9 | 0.486 | 0.076 | 0.800 | 0.041 | 0.174 | 0.049 | 0.022 | 0.014 | 0.0027 | 0.023 | Φ62×30 |
| NCS HS 49701c-6 | Aluminium Alloy | 0.894 | 1.37 | 5.08 | 0.078 | 1.53 | 0.025 | 1.33 | 0.182 | 0.174 | 0.107 | 0.0057 | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | |
| | | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Zr | | |
| NCS HS 49702a-1 | Aluminium Alloy | 0.352 | 0.136 | 0.191 | 0.153 | 0.78 | 0.087 | 0.137 | 6.66 | 0.070 | 0.087 | | Φ62×30 |
| NCS HS 49702a-2 | Aluminium Alloy | 0.455 | 0.261 | 0.684 | 0.501 | 2.95 | 0.186 | 0.076 | 4.53 | 0.104 | 0.059 | | Φ62×30 |
| NCS HS 49702a-3 | Aluminium Alloy | 0.275 | 0.358 | 1.37 | 0.329 | 2.19 | 0.143 | 0.037 | 5.15 | 0.037 | 0.106 | | Φ62×30 |
| NCS HS 49702a-4 | Aluminium Alloy | 0.168 | 0.584 | 2.09 | 0.664 | 1.40 | 0.262 | 0.128 | 2.83 | 0.156 | 0.154 | | Φ62×30 |
| NCS HS 49702a-5 | Aluminium Alloy | 0.078 | 0.430 | 1.54 | 0.819 | 0.274 | 0.367 | 0.205 | 8.3 | 0.0061 | 0.0085 | | Φ62×30 |
| NCS HS 49702a-6 | Aluminium Alloy | 0.756 | 0.770 | 2.88 | 0.066 | 4.07 | 0.129 | 0.015 | 1.27 | 0.260 | 0.203 | | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | |
| | | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | | | |
| NCS HS 49703b-1 | Aluminium Alloy | 0.526 | 0.212 | 0.035 | 0.864 | 1.16 | 0.085 | 0.059 | 0.294 | 0.108 | | | Φ62×30 |
| NCS HS 49703b-2 | Aluminium Alloy | 1 | 0.344 | 0.237 | 0.507 | 0.658 | 0.144 | 0.042 | 0.217 | 0.049 | | | Φ62×30 |
| NCS HS 49703b-3 | Aluminium Alloy | 1.28 | 0.432 | 0.522 | 0.234 | 0.911 | 0.340 | 0.030 | 0.091 | 0.028 | | | Φ62×30 |
| NCS HS 49703b-4 | Aluminium Alloy | 0.224 | 0.652 | 0.730 | 1.17 | 0.442 | 0.232 | 0.094 | 0.162 | 0.072 | | | Φ62×30 |
| NCS HS 49703b-5 | Aluminium Alloy | 1.59 | 0.822 | 0.011 | 1.48 | 0.081 | 0.311 | 0.120 | 0.040 | 0.0094 | | | Φ62×30 |
| NCS HS 49703b-6 | Aluminium Alloy | 0.048 | 0.099 | 0.990 | 0.043 | 1.50 | 0.043 | 0.016 | 0.367 | 0.160 | | | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | |
| | | Si | Fe | Cu | Mn | Mg | Ni | Zn | Ti | Pb | | | |
| NCS HS 49704b-1 | Aluminium Alloy | 0.588 | 0.671 | 0.184 | 0.851 | 0.0097 | 0.024 | 0.028 | 0.018 | 0.0043 | | | Φ62×30 |
| NCS HS 49704b-2 | Aluminium Alloy | 0.423 | 0.537 | 0.097 | 1.20 | 0.032 | 0.049 | 0.114 | 0.032 | 0.0027* | | | Φ62×30 |
| NCS HS 49704b-3 | Aluminium Alloy | 0.287 | 0.313 | 0.129 | 1.52 | 0.052 | 0.075 | 0.047 | 0.06 | 0.0067 | | | Φ62×30 |
| NCS HS 49704b-4 | Aluminium Alloy | 0.145 | 0.242 | 0.057 | 1.93 | 0.073 | 0.109 | 0.081 | 0.088 | 0.017 | | | Φ62×30 |
| NCS HS 49704b-5 | Aluminium Alloy | 0.695 | 0.803 | 0.228 | 0.544 | 0.101 | 0.152 | 0.165 | 0.123 | 0.019 | | | Φ62×30 |
| NCS HS 49704b-6 | Aluminium Alloy | 0.05 | 0.149 | 0.0063 | 2.38 | 0.006 | 0.0046 | 0.017 | 0.01 | 0.0011 | | | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (mm) | | | |
| | | Fe | Si | Mn | Mg | Ni | Cu | Ti | Zn | | | | |
| NCS HS 49705-1 | LD7 | 0.454 | 0.904 | 0.095 | 0.428 | 1.55 | 4.51 | 0.021 | 0.140 | | | | Φ62×30 |
| NCS HS 49705-2 | LD7 | 1.21 | 0.657 | 0.138 | 1.37 | 1.12 | 2.51 | 0.088 | 0.238 | | | | Φ62×30 |
| NCS HS 49705-3 | LD7 | 0.900 | 1.22 | 0.239 | 0.897 | 2.02 | 1.51 | 0.120 | 0.334 | | | | Φ62×30 |
| NCS HS 49705-4 | LD7 | 1.61 | 0.371 | 0.184 | 1.80 | 0.624 | 3.33 | 0.055 | 0.166 | | | | Φ62×30 |
| NCS HS 49705-5 | LD7 | 1.87 | 1.53 | 0.287 | 2.26 | 0.153 | 0.927 | 0.161 | 0.367 | | | | Φ62×30 |
| NCS HS 49705-6 | LD7 | 0.115 | 0.090 | 0.054 | 0.074 | 2.25 | 5.55 | 0.00095 | 0.084 | | | | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | |
| | | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Na | | |
| NCS HS 49706a-1 | Aluminium Alloy | 0.238 | 0.202 | 0.045 | 0.168 | 3.95 | 0.252 | 0.038 | 0.098 | 0.300* | 0.0028* | | Φ62×30 |
| NCS HS 49706a-2 | Aluminium Alloy | 0.462 | 0.340 | 0.101 | 0.327 | 2.24 | 0.219 | 0.233 | 0.052 | 0.046 | 0.00011 | | Φ62×30 |
| NCS HS 49706a-3 | Aluminium Alloy | 0.702 | 0.444 | 0.153 | 0.495 | 2.90 | 0.123 | 0.071 | 0.143 | 0.149 | 0.0011 | | Φ62×30 |
| NCS HS 49706a-4 | Aluminium Alloy | 0.788 | 0.624 | 0.184 | 0.677 | 1.39 | 0.314 | 0.097 | 0.235 | 0.188 | 0.00014 | | Φ62×30 |
| NCS HS 49706a-5 | Aluminium Alloy | 0.102 | 0.093 | 0.0085 | 0.051 | 5.09 | 0.042 | 0.011 | 0.030 | 0.019 | | | Φ62×30 |
| NCS HS 49706a-6 | Aluminium Alloy | 0.898 | 0.684 | 0.21 | 0.826 | 0.611 | 0.359 | 0.122 | 0.306 | 0.215 | | | Φ62×30 |

Section 8 Nonferrous Metal(Disk)

1)Aluminum & Aluminum Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) |
|-----------------|-----------------|-------------------------------|-------|---------|---------|---------|---------|--------|---------|-------------------|-------------------|-------------------|
| | | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Be | |
| NCS HS 49707a-1 | Aluminium Alloy | 0.195 | 0.301 | 0.167 | 0.137 | 8.46 | 0.106 | 0.164 | 0.118 | 0.142 | 0.0033 | Φ62×30 |
| NCS HS 49707a-2 | Aluminium Alloy | 0.304 | 0.364 | 0.090 | 0.366 | 5.33 | 0.192 | 0.060 | 0.225 | 0.044 | 0.0028 | Φ62×30 |
| NCS HS 49707a-3 | Aluminium Alloy | 0.377 | 0.458 | 0.128 | 0.526 | 6.38 | 0.140 | 0.089 | 0.156 | 0.116 | 0.0068 | Φ62×30 |
| NCS HS 49707a-4 | Aluminium Alloy | 0.459 | 0.584 | 0.229 | 0.677 | 7.04 | 0.246 | 0.169 | 0.586 | 0.087 | 0.0011 | Φ62×30 |
| NCS HS 49707a-5 | Aluminium Alloy | 0.078 | 0.134 | 0.0074 | 0.065 | 10.14 | 0.0123 | 0.146 | 0.038 | 0.0070 | 0.0087 | Φ62×30 |
| NCS HS 49707a-6 | Aluminium Alloy | 0.600 | 0.696 | 0.243 | 0.865 | 3.76 | 0.273 | 0.035 | 0.285 | 0.192 | 0.00056 | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (mm) | | |
| | | Si | Fe | Cu | Mn | Mg | Ni | Zn | Ti | | | |
| NCS HS 49708a-1 | Aluminium Alloy | 0.448 | 0.690 | 2.14 | 0.341 | 2.15 | 0.111 | 0.054 | 0.088 | | | Φ62×30 |
| NCS HS 49708a-2 | Aluminium Alloy | 0.525 | 0.453 | 3.25 | 1.00 | 0.737 | 0.021 | 0.134 | 0.017 | | | Φ62×30 |
| NCS HS 49708a-3 | Aluminium Alloy | 0.127 | 0.350 | 4.11 | 0.532 | 1.51 | 0.037 | 0.147 | 0.039 | | | Φ62×30 |
| NCS HS 49708a-4 | Aluminium Alloy | 0.230 | 0.213 | 5.82 | 0.240 | 0.950 | 0.057 | 0.320 | 0.181 | | | Φ62×30 |
| NCS HS 49708a-5 | Aluminium Alloy | 0.103 | 0.772 | 1.21 | 0.084 | 2.64 | 0.210 | 0.712 | 0.013 | | | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) |
| | | Fe | Si | Mn | Mg | Ni | Cu | Ti | Zn | Sn | Pb | |
| NCS HS 49709-1 | XZL | 0.504 | 10.89 | 0.252 | 1.35 | 1.33 | 0.624 | 0.080 | 0.209 | 0.020 | 0.016 | Φ62×30 |
| NCS HS 49709-2 | XZL | 0.216 | 11.35 | 0.614 | 0.843 | 0.827 | 0.930 | 0.115 | 0.165 | 0.120 | 0.136 | Φ62×30 |
| NCS HS 49709-3 | XZL | | 7.08 | | 1.14 | 1.00 | 1.13 | 0.056 | 0.098 | 0.0085 | 0.039 | Φ62×30 |
| NCS HS 49709-4 | XZL | 0.310 | 12.48 | 0.790 | 0.801 | 0.623 | 1.27 | 0.139 | 0.133 | 0.012 | 0.031 | Φ62×30 |
| NCS HS 49709-5 | XZL | 0.082 | 8.69 | 0.094 | 1.55 | 1.59 | 0.410 | 0.021 | 0.251 | 0.018 | 0.0025 | Φ62×30 |
| NCS HS 49709-6 | XZL | | 14.56 | | 0.513 | 0.353 | 1.46 | 0.179 | 0.049 | 0.013 | 0.043 | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (mm) | |
| | | Si | Fe | Cu | Mn | Mg | Ni | Zn | Ti | Ga | | |
| NCS HS 49710d-1 | Pure Aluminum | 0.168 | 0.137 | 0.010 | 0.010 | 0.0074 | 0.0051 | 0.017 | 0.011 | 0.012 | | Φ62×30 |
| NCS HS 49710d-2 | Pure Aluminum | 0.052 | 0.058 | 0.0052 | 0.0030 | 0.0027 | 0.0036 | 0.0044 | 0.0010 | 0.0034 | | Φ62×30 |
| NCS HS 49710d-3 | Pure Aluminum | 1.18 | 1.20 | 0.093 | 0.054 | 0.068 | 0.033 | 0.083 | 0.037 | 0.020 | | Φ62×30 |
| NCS HS 49710d-4 | Pure Aluminum | 0.363 | 0.334 | 0.035 | 0.025 | 0.025 | 0.052 | 0.045 | 0.018 | 0.029 | | Φ62×30 |
| NCS HS 49710d-5 | Pure Aluminum | 0.577 | 0.709 | 0.051 | 0.091 | 0.043 | 0.089 | 0.136 | 0.086 | 0.040 | | Φ62×30 |
| NCS HS 49710d-6 | Pure Aluminum | 0.913 | 0.920 | 0.028 | 0.205 | 0.143 | 0.114 | 0.188 | 0.064 | 0.050 | | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) |
| | | Fe | Si | Mn | Mg | Cr | Ni | Cu | Ti | Zn | Zr | |
| NCS HS 49711-1 | LY11 | 0.825 | 1.25 | 1.24 | 0.692 | 0.092 | 0.161 | 1.88 | (0.121) | 0.401 | (0.191) | Φ62×30 |
| NCS HS 49711-2 | LY11 | 0.657 | 0.893 | 0.932 | 0.298 | 0.223 | 0.113 | 2.89 | (0.169) | 0.343 | (0.250) | Φ62×30 |
| NCS HS 49711-3 | LY11 | 0.427 | 0.552 | 0.561 | 0.481 | 0.157 | 0.045 | 4.03 | 0.047 | 0.236 | 0.137 | Φ62×30 |
| NCS HS 49711-4 | LY11 | 0.188 | 0.236 | 0.241 | (0.108) | 0.193 | 0.089 | 5.47 | 0.078 | 0.125 | 0.048 | Φ62×30 |
| NCS HS 49711-5 | LY11 | (1.08) | 1.59 | (1.54) | (0.922) | (0.311) | (0.220) | 0.658 | (0.225) | 0.051 | 0.0064 | Φ62×30 |
| NCS HS 49711-6 | LY11 | 0.122 | 0.101 | (0.071) | 0.035 | 0.011 | 0.0095 | 6.61 | (0.108) | (0.566) | (0.319) | Φ62×30 |

Section 8 Nonferrous Metal(Disk)

1)Aluminum & Aluminum Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
|-----------------|----------------------|-------------------------------|-----------|----------|-----------|----------|---------|---------|---------|---------|-----------|----------|----------------|
| | | Si | Mg | Mn | Fe | Cu | Zn | Ni | Cr | Ti | Zr | Ga | |
| NCS HS 49715a-1 | Aluminum Concentrate | 0.00098 | 0.0025 | 0.00007 | 0.00083 | 0.00088 | 0.00040 | 0.00025 | 0.00053 | 0.00011 | (0.00026) | | Φ40x35 |
| NCS HS 49715a-2 | Aluminum Concentrate | 0.0015 | 0.00039 | 0.0019 | 0.0016 | 0.00017 | 0.0025 | 0.0026 | 0.00097 | 0.00084 | 0.0025 | 0.0032 | Φ40x35 |
| NCS HS 49715a-3 | Aluminum Concentrate | 0.010 | 0.0079 | 0.0066 | 0.012 | 0.0061 | 0.0073 | 0.0063 | 0.0040 | 0.0030 | 0.0053 | 0.0082 | Φ40x35 |
| NCS HS 49715a-4 | Aluminum Concentrate | 0.031 | 0.0092 | 0.010 | 0.033 | 0.012 | 0.011 | 0.011 | 0.0069 | 0.012 | 0.014 | 0.011 | Φ40x35 |
| NCS HS 49715a-5 | Aluminum Concentrate | 0.0073 | 0.0052 | 0.0041 | 0.0091 | 0.0033 | 0.0047 | 0.0059 | 0.0018 | 0.0021 | 0.0057 | 0.0012 | Φ40x35 |
| NCS HS 49715a-6 | Aluminum Concentrate | 0.044 | 0.014 | 0.012 | 0.063 | 0.014 | 0.016 | 0.042 | 0.015 | 0.017 | 0.019 | 0.015 | Φ40x35 |
| NCS HS 49715a-7 | Aluminum Concentrate | 0.111 | 0.0022 | 0.0030 | 0.397 | 0.0020 | | | | 0.012 | | | Φ40x35 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
| | | Si | Mg | Mn | Fe | Cu | Zn | Sn | Pb | Ni | Ti | Sr | |
| NCS HS 49716b-1 | ADC12 | 7.53 | 0.478 | 0.702 | 0.665 | 0.505 | 3.04 | 0.096 | 0.011 | 0.152 | 0.018 | 0.0021 | Φ62x30 |
| NCS HS 49716b-2 | ADC12 | 8.87 | 0.145 | 0.558 | 1.33 | 3.35 | 0.794 | 0.129 | 0.028 | 0.266 | 0.0093 | 0.0053 | Φ62x30 |
| NCS HS 49716b-3 | ADC12 | 10.79 | 0.211 | 0.363 | 1.01 | 2.58 | 1.25 | 0.197 | 0.056 | 0.318 | 0.045 | 0.111 | Φ62x30 |
| NCS HS 49716b-4 | ADC12 | 11.98 | 0.294 | 0.265 | 0.855 | 1.95 | 1.89 | 0.242 | 0.076 | 0.473 | 0.013 | 0.038 | Φ62x30 |
| NCS HS 49716b-5 | ADC12 | 13.82 | 0.392 | 0.108 | 0.289 | 1.19 | 2.42 | 0.310 | 0.129 | 0.647 | 0.020 | 0.029 | Φ62x30 |
| NCS HS 49716b-6 | ADC12 | 6.27 | 0.064 | 0.052 | 1.92 | 4.21 | 0.330 | 0.054 | 0.0041 | 0.079 | 0.0060 | 0.0002 | Φ62x30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
| | | Cu | Mg | Mn | Fe | Si | Zn | Ti | Ni | V | Pb | Sn | |
| NCS HS 49717-1 | DL18 | 0.0026 | 0.0032 | 0.0006 | 0.062 | 0.051 | 0.0016 | 0.0095 | 0.0026 | 0.0002 | 0.0046 | (0.0001) | Φ62x30 |
| NCS HS 49717-2 | DL18 | 0.015 | 0.011 | 0.017 | 0.193 | 0.194 | 0.030 | 0.036 | 0.014 | 0.237 | | 0.171 | Φ62x30 |
| NCS HS 49717-3 | DL18 | 0.031 | 0.031 | 0.034 | 0.371 | 0.344 | 0.067 | 0.013 | 0.030 | | 0.123 | | Φ62x30 |
| NCS HS 49717-4 | DL18 | 0.104 | 0.093 | 0.046 | 0.940 | 0.933 | 0.096 | 0.054 | 0.050 | 0.121 | | 0.119 | Φ62x30 |
| NCS HS 49717-5 | DL18 | 0.076 | (0.056) | 0.108 | 0.612 | 0.634 | 1.05 | 0.081 | 0.075 | | 0.066 | | Φ62x30 |
| NCS HS 49717-6 | DL18 | 0.134 | 0.127 | 0.142 | 0.748 | 0.789 | 0.522 | 0.114 | 0.104 | 0.027 | | 0.071 | Φ62x30 |
| NCS HS 49717-7 | DL18 | 0.048 | 0.021 | 0.070 | 0.505 | 0.491 | 1.50 | (0.138) | 0.133 | | 0.0052 | | Φ62x30 |
| | | Sb | Ga | Cd | Ca | B | Ce | Nd | | | | | |
| NCS HS 49717-1 | DL18 | (0.0004) | (0.00024) | (0.0008) | (0.00005) | (0.0014) | 0.00031 | 0.0002 | | | | | |
| NCS HS 49717-2 | DL18 | 0.040 | | 0.105 | | | | | | | | | |
| NCS HS 49717-4 | DL18 | 0.043 | | 0.048 | | | | | | | | | |
| NCS HS 49717-5 | DL18 | | 0.0085 | | | (0.0047) | 0.0080 | | | | | | |
| NCS HS 49717-6 | DL18 | 0.097 | | 0.011 | | | | | | | | | |
| NCS HS 49717-7 | DL18 | | 0.032 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
| | | Si | Fe | Cu | Mn | Mg | Zn | Ti | Pb | Sn | Be | Zr | |
| NCS HS 49718-1 | Aluminium Alloy | 6.03 | 0.194 | 0.303 | 0.411 | 0.095 | 0.375 | 0.008 | 0.020 | 0.011 | 0.0086 | 0.047 | Φ62x30 |
| NCS HS 49718-2 | Aluminium Alloy | 6.36 | 0.413 | 0.254 | 0.317 | 0.207 | 0.257 | 0.188 | 0.031 | 0.021 | 0.013 | 0.085 | Φ62x30 |
| NCS HS 49718-3 | Aluminium Alloy | 7.15 | 0.654 | 0.412 | 0.248 | 0.301 | 0.225 | 0.132 | 0.063 | 0.031 | 0.017 | 0.162 | Φ62x30 |
| NCS HS 49718-4 | Aluminium Alloy | 7.55 | 0.911 | 0.158 | 0.165 | 0.401 | 0.061 | 0.088 | 0.088 | 0.048 | 0.024 | 0.191 | Φ62x30 |
| NCS HS 49718-5 | Aluminium Alloy | 8.19 | 1012 | 0.065 | 0.070 | 0.501 | 0.0068 | 0.043 | 0.123 | 0.061 | 0.055 | 0.174 | Φ62x30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
| | | Si | Fe | Cu | Mn | Mg | Cr | Zn | Ti | Ni | | | |
| NCS HS 49719-1 | Aluminium Alloy | 0.352 | 0.098 | 0.099 | 0.094 | 0.745 | 0.374 | 0.088 | 0.046 | 0.011 | | | Φ62x30 |
| NCS HS 49719-2 | Aluminium Alloy | 0.547 | 0.215 | 0.200 | 0.198 | 0.580 | 0.275 | 0.126 | 0.092 | 0.042 | | | Φ62x30 |
| NCS HS 49719-3 | Aluminium Alloy | 0.654 | 0.294 | 0.328 | 0.289 | 0.647 | 0.236 | 0.181 | 0.109 | 0.062 | | | Φ62x30 |
| NCS HS 49719-4 | Aluminium Alloy | 0.794 | 0.411 | 0.435 | 0.410 | 0.395 | 0.145 | 0.223 | 0.142 | 0.100 | | | Φ62x30 |
| NCS HS 49719-5 | Aluminium Alloy | 0.972 | 0.517 | 0.540 | 0.539 | 0.277 | 0.072 | 0.277 | 0.173 | 0.138 | | | Φ62x30 |

Section 8 Nonferrous Metal(Disk)

1)Aluminum & Aluminum Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | |
|-----------------|-----------------|-------------------------------|--------|----------|---------|--------|--------|---------|---------|------------|------------|-------------------|-------------------|
| | | Si | Fe | Cu | Mn | Mg | Zn | Ti | Ni | Cr | Zr | | |
| NCS HS 49720-1 | Aluminium Alkly | 0.044 | 0.122 | 0.015 | 0.095 | 0.842 | 5.78 | 0.010 | 0.011 | 0.021 | 0.067 | Φ62×30 | |
| NCS HS 49720-2 | Aluminium Alkly | 0.115 | 0.206 | 0.041 | 0.243 | 1.16 | 5.20 | 0.019 | 0.039 | 0.077 | 0.104 | Φ62×30 | |
| NCS HS 49720-3 | Aluminium Alkly | 0.177 | 0.312 | 0.086 | 0.397 | 1.35 | 4.41 | 0.035 | 0.067 | 0.119 | 0.138 | Φ62×30 | |
| NCS HS 49720-4 | Aluminium Alkly | 0.284 | 0.396 | 0.116 | 0.556 | 1.94 | 3.50 | 0.059 | 0.099 | 0.179 | 0.204 | Φ62×30 | |
| NCS HS 49720-5 | Aluminium Alkly | 0.401 | 0.481 | 0.119 | 0.719 | 1.76 | 2.78 | 0.073 | 0.145 | 0.222 | 0.235 | Φ62×30 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | |
| | | Si | Fe | Cu | Mn | Mg | Zn | Ti | Ni | Cr | Zr | | |
| NCS HS 49726-1 | Aluminium Alloy | 0.027 | 0.034 | 0.0025 | 0.0017 | 1.20 | 0.0072 | 0.0090 | 0.0093 | | | Φ62×30 | |
| NCS HS 49726-2 | Aluminium Alloy | 0.0033 | 0.0097 | 0.0065 | 0.0017 | 1.88 | 0.013 | 0.00084 | 0.00088 | | | Φ62×30 | |
| NCS HS 49726-3 | Aluminium Alloy | 0.0073 | 0.012 | 0.0038 | 0.0042 | 1.63 | 0.0047 | 0.0042 | 0.0036 | | | Φ62×30 | |
| NCS HS 49726-4 | Aluminium Alloy | 0.013 | 0.027 | 0.011 | 0.011 | 2.10 | 0.0012 | 0.011 | 0.0098 | | | Φ62×30 | |
| NCS HS 49726-5 | Aluminium Alloy | 0.015 | 0.0040 | 0.012 | 0.0013 | 2.13 | 0.0024 | 0.00060 | 0.00028 | | | Φ62×30 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
| | | Pb | Cd | As | Cu | | | | | | | | |
| NCS HS 49727-1 | Aluminium Alloy | 0.0022 | 0.0038 | 0.017 | 0.082** | | | | | | | | Φ62×30 |
| NCS HS 49727-2 | Aluminium Alloy | 0.011 | 0.019 | — | 0.469** | | | | | | | | Φ62×30 |
| NCS HS 49727-3 | Aluminium Alloy | 0.029 | 0.010 | 0.038 | 0.284** | | | | | | | | Φ62×30 |
| NCS HS 49727-4 | Aluminium Alloy | 0.019 | 0.027 | 0.011 | 0.080** | | | | | | | | Φ62×30 |
| NCS HS 49727-5 | Aluminium Alloy | | | | 0.0057 | | | | | | | | Φ62×30 |
| NCS HS 49727-6 | Aluminium Alloy | | | | 0.024 | | | | | | | | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
| | | Si% | Fe% | Cu% | Mn% | Mg% | Ni% | Zn% | Ti% | Be 120m | Li 120m | Cd 120m | |
| NCS HS 49728-1 | Aluminium Alloy | 0.044 | 0.108 | 0.066 | 0.017 | 0.0030 | 0.0082 | 0.012 | 0.0054 | 0.79 | 0.53 | 8.4 | Φ62×30 |
| NCS HS 49728-2 | Aluminium Alloy | 0.104 | 0.359 | 0.042 | 0.020 | 0.0016 | 0.046 | 0.029 | 0.018 | 3.0 | 1.6 | 45 | Φ62×30 |
| NCS HS 49728-3 | Aluminium Alloy | 0.375 | 0.480 | 0.0080 | 0.080 | 0.011 | 0.070 | 0.087 | 0.038 | 3.2 | 2.0 | 80 | Φ62×30 |
| NCS HS 49728-4 | Aluminium Alloy | 0.594 | 0.665 | 0.072 | 0.032 | 0.036 | 0.095 | 0.027 | 0.031 | 20 | 8.8 | 67 | Φ62×30 |
| NCS HS 49728-5 | Aluminium Alloy | 0.772 | 0.828 | 0.072 | 0.0066 | 0.029 | 0.110 | 0.050 | 0.011 | 12 | 55 | 97 | Φ62×30 |
| NCS HS 49728-6 | Aluminium Alloy | 0.650 | 0.478 | 0.100 | 0.033 | 0.0086 | 0.098 | 0.030 | 0.028 | 7.8 | 4.2 | 42 | Φ62×30 |
| NCS HS 49728-7 | Aluminium Alloy | 1.03 | 0.932 | 0.111 | 0.096 | 0.046 | 0.118 | 0.079 | 0.075 | 26 | 48 | 223 | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | |
| | | Si | Fe | Cu | Mn | Mg | Cr | Zn | Li | Ti | Zr | | |
| NCS HS 49729-1 | Aluminium Alloy | 0.069 | 0.076 | 0.0025** | | 6.00 | | | 1.23 | | 0.091 | Φ45×40 | |
| NCS HS 49729-2 | Aluminium Alloy | 0.086 | 0.129 | 0.0019** | | 5.49 | | | 2.25 | | 0.073 | Φ45×40 | |
| NCS HS 49729-3 | Aluminium Alloy | 0.222 | 0.227 | 0.042 | | 4.29 | | | 1.98 | | 0.109 | Φ45×40 | |
| NCS HS 49729-4 | Aluminium Alloy | 0.056 | 0.163 | 0.040 | 0.015 | 4.95 | 0.023 | 0.022 | 1.35 | 0.026 | 0.057 | Φ45×40 | |
| NCS HS 49729-5 | Aluminium Alloy | 0.129 | 0.075 | 0.012 | 0.053 | 3.84 | 0.047 | 0.094 | 1.50 | 0.079 | 0.140 | Φ45×40 | |
| NCS HS 49729-6 | Aluminium Alloy | 0.132 | 0.055 | 0.100 | 0.045 | 3.81 | 0.046 | 0.093 | 1.54 | 0.091 | 0.168* | Φ45×40 | |
| NCS HS 49729-7 | Aluminium Alloy | 0.098 | 0.089 | 0.420 | 0.030 | 2.18 | 0.126* | 0.058 | 1.03 | 0.128* | 0.143 | Φ45×40 | |
| NCS HS 49729-8 | Aluminium Alloy | 0.025 | 0.043 | 0.824 | 0.097 | 0.680 | 0.103 | 0.041 | 2.52 | 0.134 | 0.042 | Φ45×40 | |
| NCS HS 49729-9 | Aluminium Alloy | 0.150 | 0.148 | 1.11 | 0.081 | 1.33 | 0.073 | 0.146 | 1.99 | 0.092 | 0.077 | Φ45×40 | |
| NCS HS 49729-10 | Aluminium Alloy | 0.214 | 0.264 | 1.60 | 0.138 | 1.62 | 0.058 | 0.204* | 1.63 | 0.070 | 0.061 | Φ45×40 | |
| NCS HS 49729-11 | Aluminium Alloy | 0.118 | 0.112 | 1.22 | 0.032 | 0.193 | 0.021 | 0.107 | 2.12 | 0.010 | 0.082 | Φ45×40 | |
| NCS HS 49729-12 | Aluminium Alloy | 0.136 | 0.094 | 1.46 | 0.082 | 0.291 | 0.029 | 0.118 | 2.48 | 0.0026 | 0.088 | Φ45×40 | |

Section 8 Nonferrous Metal(Disk)

1)Aluminum & Aluminum Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (mm) | | | | | | | | |
|----------------|-----------------|-------------------------------|---------|----------|-------------------|----------|--------|-------------------|--------|---------|--------|-------------------|-------|---------|--------|-------------------|
| | | Ag | Cu | Mg | Li | Ti | Zr | | | | | | | | | |
| NCS HS 49730-1 | Aluminium Alloy | 0.224 | 2.45 | 0.584 | 1.76 | 0.104 | 0.045 | Φ45×25 | | | | | | | | |
| NCS HS 49730-2 | Aluminium Alloy | 0.234 | 3.12 | 0.473 | 1.28 | 0.092 | 0.061 | Φ45×25 | | | | | | | | |
| NCS HS 49730-3 | Aluminium Alloy | 0.425 | 3.83 | 0.417 | 0.387 | 0.025 | 0.097 | Φ45×25 | | | | | | | | |
| NCS HS 49730-4 | Aluminium Alloy | 0.455 | 4.57 | 0.274 | 1.23 | 0.052 | 0.126 | Φ45×25 | | | | | | | | |
| NCS HS 49730-5 | Aluminium Alloy | 0.59 | 5.43 | 0.190 | 0.954 | 0.027 | 0.142 | Φ45×25 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (mm) | | | | | | | | |
| | | Ga | Li | Cd | B | Co | Mg | | | | | | | | | |
| NCS HS 49732-1 | Aluminium Alloy | 0.018 | 0.0054 | 0.0045 | 0.0058 | 0.0052 | 1.04 | Φ62×30 | | | | | | | | |
| NCS HS 49732-2 | Aluminium Alloy | — | 0.00012 | 0.00022* | 0.0010 | — | 1.09 | Φ62×30 | | | | | | | | |
| NCS HS 49732-3 | Aluminium Alloy | 0.0093 | 0.00058 | 0.00023 | 0.0011 | 0.00025 | 0.092 | Φ62×30 | | | | | | | | |
| NCS HS 49732-4 | Aluminium Alloy | 0.0097 | 0.039 | 0.019 | 0.0032 | 0.0037 | 0.106 | Φ62×30 | | | | | | | | |
| NCS HS 49732-5 | Aluminium Alloy | 0.411 | 0.00010 | 0.00012 | 0.0015 | 0.00013* | 2.67 | Φ62×30 | | | | | | | | |
| NCS HS 49732-6 | Aluminium Alloy | 0.069 | 0.0042 | 0.052 | 0.00067 | 0.0098 | 0.629 | Φ62×30 | | | | | | | | |
| NCS HS 49732-7 | Aluminium Alloy | 0.040 | 0.0023 | 0.0015 | 0.0040 | 0.0111 | 2.01 | Φ62×30 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | | | |
| | | Si | Fe | Cu | Mn | Mg | Zn | Ti | Ni | Zr | V | | | | | |
| NCS HS 49733-1 | Aluminium Alloy | 0.358 | 0.455 | 4.76 | 0.476 | 0.0020 | 0.007* | 0.0037 | 0.0038 | 0.038 | 0.027 | Φ62×30 | | | | |
| NCS HS 49733-2 | Aluminium Alloy | 0.257 | 0.380 | 5.53 | 0.387 | 0.021 | 0.049 | 0.071 | 0.017 | 0.103 | 0.061 | Φ62×30 | | | | |
| NCS HS 49733-3 | Aluminium Alloy | 0.198 | 0.302 | 6.21 | 0.318 | 0.040 | 0.105 | 0.160 | 0.041 | 0.157 | 0.175 | Φ62×30 | | | | |
| NCS HS 49733-4 | Aluminium Alloy | 0.159 | 0.199 | 6.64 | 0.161 | 0.062 | 0.157 | 0.123 | 0.069 | 0.236 | 0.116 | Φ62×30 | | | | |
| NCS HS 49733-5 | Aluminium Alloy | 0.106 | 0.105 | 6.97 | 0.090 | 0.126 | 0.189 | 0.154* | 0.090 | 0.197 | 0.170 | Φ62×30 | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | Si | Fe | Cu | Mn | Mg | Ni | Zn | Cr | Ti | Zr | B | Sc | Be | | |
| NCS HS 49734-1 | Aluminium Alloy | 0.246 | 0.361 | 0.013 | 1.11 | 4.85 | 0.013 | 0.101 | 0.214 | 0.0094 | 0.035 | 0.0010 | 0.031 | 0.00011 | Φ62×30 | |
| NCS HS 49734-2 | Aluminium Alloy | 0.206 | 0.273 | 0.051 | 0.849 | 6.28 | 0.014 | 0.029 | 0.127 | 0.062 | 0.162 | 0.0020 | 0.103 | 0.0012 | Φ62×30 | |
| NCS HS 49734-3 | Aluminium Alloy | 0.131 | 0.197 | 0.029 | 0.413 | 5.61 | 0.0097 | 0.044 | 0.023 | 0.029 | 0.092 | 0.0027 | 0.181 | 0.0034 | Φ62×30 | |
| NCS HS 49734-4 | Aluminium Alloy | 0.050 | 0.155 | 0.072 | 0.140 | 7.11 | 0.035 | 0.135 | 0.134 | 0.178 | 0.220 | 0.0084 | 0.236 | 0.0051 | Φ62×30 | |
| NCS HS 49734-5 | Aluminium Alloy | 0.100 | 0.299 | 0.097 | 0.783 | 7.30 | 0.108 | 0.076 | 0.066 | 0.079 | 0.055 | 0.0060 | 0.257 | 0.00051 | Φ62×30 | |
| NCS HS 49734-6 | Aluminium Alloy | 0.049 | 0.089 | 0.012 | 0.341 | 5.19 | 0.0066 | 0.0080 | 0.014* | 0.040 | 0.097* | — | 0.349 | 0.0013 | Φ62×30 | |
| NCS HS 49734-7 | Aluminium Alloy | 0.046 | 0.089 | 0.011 | 0.306 | 4.52 | 0.0058 | 0.0074 | 0.013* | 0.039 | 0.088 | — | 0.535 | 0.0011 | Φ62×30 | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (mm) | | | | | | | | | | | |
| | | Hg | Pb | Cd | | | | | | | | | | | | |
| NCS HS49735-1 | Aluminium Alloy | 0.0038 | 0.0023 | 0.0017 | Φ62×30 | | | | | | | | | | | |
| NCS HS49735-2 | Aluminium Alloy | 0.039 | 0.0060 | 0.0047 | Φ62×30 | | | | | | | | | | | |
| NCS HS49735-3 | Aluminium Alloy | 0.059 | 0.011 | 0.0088 | Φ62×30 | | | | | | | | | | | |
| NCS HS49735-4 | Aluminium Alloy | 0.0027 | 0.010 | 0.0085 | Φ62×30 | | | | | | | | | | | |
| NCS HS49735-5 | Aluminium Alloy | 0.0039 | 0.019 | 0.017 | Φ62×30 | | | | | | | | | | | |
| NCS HS49735-6 | Aluminium Alloy | 0.0062 | 0.035 | 0.037 | Φ62×30 | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | Si | Fe | Cu | Mn | Mg | Zn | Ti | Ni | Cd | V | Na | Ga | Pb | | |
| NCS HS 49736-1 | Aluminium Alloy | 0.658 | 0.847 | 0.030 | 0.687 | 1.39 | 0.052 | 0.039 | 0.0041 | 0.00017 | 0.102 | 0.0012* | 0.020 | 0.0085 | Φ62×30 | |
| NCS HS 49736-2 | Aluminium Alloy | 0.488 | 0.664 | 0.111 | 0.795 | 1.19 | 0.109 | 0.105 | 0.018 | 0.0028 | 0.068 | 0.00025 | 0.034 | 0.016 | Φ62×30 | |
| NCS HS 49736-3 | Aluminium Alloy | 0.194 | 0.497 | 0.203 | 0.957 | 1.16 | 0.206 | 0.091 | 0.055 | 0.0042 | 0.056 | 0.00055 | 0.059 | 0.011 | Φ62×30 | |
| NCS HS 49736-4 | Aluminium Alloy | 0.342 | 0.332 | 0.380 | 1.05 | 0.869 | 0.271 | 0.156 | 0.071 | 0.0044 | 0.033 | 0.0013 | 0.086 | 0.0051 | Φ62×30 | |
| NCS HS 49736-5 | Aluminium Alloy | 0.056 | 0.209 | 0.298 | 1.18 | 0.712 | 0.330 | 0.201 | 0.086 | 0.0058 | 0.018 | 0.0016* | 0.096 | 0.0016 | Φ62×30 | |

Section 8 Nonferrous Metal(Disk)

1)Aluminum & Aluminum Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (mm) |
|----------------|-----------------|-------------------------------|-------|--------|--------|-------|--------|--------|----------------|--------|-------|----------------|----------------|----------------|
| | | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Pb | Ti | Cd | Na | |
| NCS HS 49737-1 | Aluminium Alloy | 0.039 | 0.091 | 0.019 | 0.092 | 5.94 | 0.010 | 0.0070 | 0.327 | 0.0011 | 0.011 | 0.00011 | 0.00020 | Φ62X30 |
| NCS HS 49737-2 | Aluminium Alloy | 0.086 | 0.238 | 0.168 | 0.478 | 5.16 | 0.110 | 0.022 | 0.258 | 0.0075 | 0.129 | 0.0068 | 0.00076 | Φ62X30 |
| NCS HS 49737-3 | Aluminium Alloy | 0.138 | 0.314 | 0.072 | 0.370 | 4.56 | 0.067 | 0.044 | 0.197 | 0.0068 | 0.074 | 0.0053 | 0.0014 | Φ62X30 |
| NCS HS 49737-4 | Aluminium Alloy | 0.214 | 0.397 | 0.105 | 0.221 | 3.76 | 0.173 | 0.067 | 0.105 | 0.015 | 0.175 | 0.0087 | 0.0010* | Φ62X30 |
| NCS HS 49737-5 | Aluminium Alloy | 0.296 | 0.471 | 0.209 | 0.601 | 2.94 | 0.220 | 0.107 | 0.050 | 0.023 | 0.235 | 0.019 | 0.00039* | Φ62X30 |
| NCS HS 49737-6 | Aluminium Alloy | 0.116 | 0.284 | 0.056 | 0.342 | 4.25 | 0.041 | 0.022 | 0.055 | 0.0034 | 0.041 | 0.0011 | 0.00013 | Φ62X30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (mm) |
| | | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Zr | Ca | Na | |
| NCS HS 49738-1 | Aluminium Alloy | 0.147 | 0.283 | 1.83 | 0.043 | 3.17 | 0.0026 | 0.0043 | 7.24 | 0.014 | 0.019 | 0.00048 | 0.00070 | Φ62x30 |
| NCS HS 49738-2 | Aluminium Alloy | 0.130 | 0.239 | 2.17 | 0.110 | 2.75 | 0.036 | 0.037 | 6.42 | 0.050 | 0.092 | 0.0023 | 0.0027 | Φ62x30 |
| NCS HS 49738-3 | Aluminium Alloy | 0.082 | 0.184 | 2.95 | 0.147 | 2.11 | 0.059 | 0.062 | 5.35 | 0.086 | 0.162 | 0.00023 | 0.00077* | Φ62x30 |
| NCS HS 49738-4 | Aluminium Alloy | 0.019 | 0.041 | 3.48 | 0.207 | 1.88 | 0.101 | 0.104 | 4.60 | 0.134 | 0.198 | 0.0010 | 0.00014 | Φ62x30 |
| NCS HS 49738-5 | Aluminium Alloy | 0.055 | 0.113 | 2.43 | 0.254 | 1.40 | 0.130 | 0.133 | 3.95 | 0.164 | 0.207 | 0.0012 | 0.0011 | Φ62x30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | | | | |
| | | Si | Fe | Cu | Mn | Mg | Zn | Ti | | | | | | |
| NCS HS49739-1 | Aluminium Alloy | 8.90 | 0.655 | 0.041 | 0.348 | 0.043 | 0.021 | 0.032 | | | | | | Φ62X30 |
| NCS HS49739-2 | Aluminium Alloy | 10.32 | 0.490 | 0.543 | 0.456 | 0.079 | 0.129 | 0.078 | | | | | | Φ62X30 |
| NCS HS49739-3 | Aluminium Alloy | 10.71 | 0.417 | 0.233 | 0.541 | 0.093 | 0.067 | 0.092 | | | | | | Φ62X30 |
| NCS HS49739-4 | Aluminium Alloy | 12.33 | 0.342 | 0.314 | 0.237 | 0.130 | 0.092 | 0.196 | | | | | | Φ62X30 |
| NCS HS49739-5 | Aluminium Alloy | 14.28 | 0.247 | 0.468 | 0.150 | 0.163 | 0.157 | 0.195 | | | | | | Φ62X30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | |
| | | Si | Fe | Cu | Mn | Mg | Zn | Pb | Sn | Ti | Zr | | | |
| NCS HS 49740-1 | Aluminium Alloy | 6.92 | 0.090 | 0.017* | 0.101 | 0.538 | 0.295 | 0.010* | 0.0096* | 0.027 | 0.028 | | | Φ62X30 |
| NCS HS 49740-2 | Aluminium Alloy | 8.24 | 0.165 | 0.049 | 0.395 | 0.371 | 0.136 | 0.105 | 0.018* | 0.069 | 0.207 | | | Φ62X30 |
| NCS HS 49740-3 | Aluminium Alloy | 9.21 | 0.435 | 0.079 | 0.608 | 0.303 | 0.234 | 0.046 | 0.0068 | 0.175 | 0.111 | | | Φ62X30 |
| NCS HS 49740-4 | Aluminium Alloy | 10.02 | 0.392 | 0.081 | 0.240 | 0.183 | 0.215 | 0.085 | 0.013 | 0.135 | 0.078 | | | Φ62X30 |
| NCS HS 49740-5 | Aluminium Alloy | 11.30 | 0.269 | 0.132 | 0.512 | 0.089 | 0.079 | 0.129 | 0.018 | 0.275 | 0.150 | | | Φ62X30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | |
| | | Si | Fe | Cu | Mn | Mg | Zn | Pb | Sn | Ti | Zr | Be | | |
| NCS HS 49741-1 | Aluminium Alloy | 4.36 | 0.475 | 2.52 | 0.0187 | 0.163 | 0.010 | 0.0090 | 0.0063* | 0.041 | 0.181 | 0.0047 | | Φ62X30 |
| NCS HS 49741-2 | Aluminium Alloy | 3.69 | 0.364 | 2.01 | 0.134 | 0.317 | 0.067 | 0.029 | 0.017 | 0.118 | 0.172 | 0.021 | | Φ62X30 |
| NCS HS 49741-3 | Aluminium Alloy | 4.89 | 0.294 | 1.45 | 0.245 | 0.421 | 0.151 | 0.051 | 0.019 | 0.154 | 0.107 | 0.011 | | Φ62X30 |
| NCS HS 49741-4 | Aluminium Alloy | 5.05 | 0.186 | 1.02 | 0.347 | 0.600 | 0.201 | 0.088 | 0.014* | 0.175 | 0.137 | 0.014 | | Φ62X30 |
| NCS HS 49741-5 | Aluminium Alloy | 5.67 | 0.110 | 0.514 | 0.497 | 0.686 | 0.305 | 0.142 | 0.022 | 0.234 | 0.040 | 0.014 | | Φ62X30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | | | | |
| | | Si | Fe | Cu | Mn | Mg | Zn | Ti | | | | | | |
| NCS HS 49742-1 | Aluminium Alloy | 6.03 | 0.076 | 0.080 | 0.040 | 0.140 | 0.038 | 0.083 | | | | | | Φ62X30 |
| NCS HS 49742-2 | Aluminium Alloy | 6.53 | 0.238 | 0.131 | 0.130 | 0.211 | 0.121 | 0.127 | | | | | | Φ62X30 |
| NCS HS 49742-3 | Aluminium Alloy | 7.17 | 0.396 | 0.179 | 0.211 | 0.290 | 0.206 | 0.136 | | | | | | Φ62X30 |
| NCS HS 49742-4 | Aluminium Alloy | 7.79 | 0.571 | 0.243 | 0.313 | 0.381 | 0.304 | 0.219 | | | | | | Φ62X30 |
| NCS HS 49742-5 | Aluminium Alloy | 8.00 | 0.758 | 0.295 | 0.404 | 0.494 | 0.422 | 0.223 | | | | | | Φ62X30 |
| NCS HS 49742-6 | Aluminium Alloy | 5.57 | 0.076 | 0.065 | 0.011 | 0.584 | 0.013 | 0.0070 | | | | | | Φ62X30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | | | | |
| | | Si | Fe | Cu | Mn | Mg | Zn | Ti | | | | | | |
| NCS HS 49743-1 | Aluminium Alloy | 8.23 | 0.673 | 0.660 | 0.134 | 0.127 | 8.99 | | | | | | | Φ62X30 |
| NCS HS 49743-2 | Aluminium Alloy | 6.85 | 0.409 | 0.408 | 0.291 | 0.217 | 11.14 | | | | | | | Φ62X30 |
| NCS HS 49743-3 | Aluminium Alloy | 5.42 | 0.223 | 0.203 | 0.509 | 0.285 | 12.61 | | | | | | | Φ62X30 |
| NCS HS 49743-4 | Aluminium Alloy | 7.22 | 0.536 | 0.251 | 0.402 | 0.421 | 13.02 | 0.194 | | | | | | Φ62X30 |
| NCS HS 49743-5 | Aluminium Alloy | 4.76 | 0.437 | 0.460 | 0.208 | 0.510 | 13.79 | 0.159 | | | | | | Φ62X30 |
| NCS HS 49743-6 | Aluminium Alloy | 3.41 | 0.224 | 0.544 | 0.072 | 0.713 | 16.50 | 0.107 | | | | | | Φ62X30 |

Section 8 Nonferrous Metal(Disk)

1)Aluminum & Aluminum Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (mm) | | | | |
|----------------|-----------------|-------------------------------|-------|--------|-------|-------|--------|--------|----------------|----------|----------------|----------------|----------------|--------|--------|
| | | Si | Fe | Cu | Mn | Mg | Zn | Ni | Pb | Sn | | | | | |
| NCS HS 49744-1 | Aluminium Alloy | 6.78 | 0.166 | 4.64 | 0.531 | 0.063 | 0.097 | 0.024 | | | Φ62×30 | | | | |
| NCS HS 49744-2 | Aluminium Alloy | 7.55 | 0.443 | 4.00 | 0.451 | 0.124 | 0.374 | 0.024 | 0.0059 | 0.043 | Φ62×30 | | | | |
| NCS HS 49744-3 | Aluminium Alloy | 8.54 | 0.706 | 3.31 | 0.326 | 0.172 | 0.736 | 0.244 | 0.019 | 0.072 | Φ62×30 | | | | |
| NCS HS 49744-4 | Aluminium Alloy | 9.10 | 0.998 | 2.92 | 0.204 | 0.239 | 0.977 | 0.414 | 0.065 | 0.113 | Φ62×30 | | | | |
| NCS HS 49744-5 | Aluminium Alloy | 9.99 | 1.32 | 2.49 | 0.099 | 0.292 | 1.08 | 0.515 | 0.112 | 0.146 | Φ62×30 | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | | |
| | | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ti | Pb | Sn | Sr | Ca | |
| NCS HS 49745-1 | Aluminium Alloy | 5.45 | 0.064 | 0.063 | 0.010 | 0.617 | 0.012 | 0.0014 | 0.146 | 0.0083 | 0.012 | 0.097 | 0.016 | 0.065 | Φ62×30 |
| NCS HS 49745-2 | Aluminium Alloy | 5.94 | 0.214 | 0.0074 | 0.056 | 0.500 | 0.070 | 0.0053 | 0.069 | 0.049 | 0.073 | 0.014 | 0.144* | 0.036 | Φ62×30 |
| NCS HS 49745-3 | Aluminium Alloy | 7.63 | 0.049 | 0.098 | 0.160 | 0.426 | 0.0081 | 0.016 | 0.0091 | 0.018 | 0.0060 | 0.0058 | 0.031 | 0.0083 | Φ62×30 |
| NCS HS 49745-4 | Aluminium Alloy | 6.93 | 0.108 | 0.015 | 0.075 | 0.096 | 0.051 | 0.0065 | 0.098 | 0.148 | 0.100 | 0.088 | 0.101 | 0.017 | Φ62×30 |
| NCS HS 49745-5 | Aluminium Alloy | 6.62 | 0.220 | 0.042 | 0.117 | 0.198 | 0.030 | 0.029 | 0.039 | 0.179 | 0.027 | 0.046 | 0.067 | 0.0077 | Φ62×30 |
| NCS HS 49745-6 | Aluminium Alloy | 8.62 | 0.278 | 0.027 | 0.109 | 0.313 | 0.040 | 0.020 | 0.034 | 0.105 | 0.045 | 0.033 | 0.0033* | 0.0021 | Φ62×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | | | | | |
| | | Fe | Si | Mn | Ni | Cu | Al | Zn | | | | | | | |
| NCS HS 50704-1 | ZLD202 | 0.15 | 0.37 | 1.21 | 1.27 | 10.00 | margin | 0.49 | | 50×40×30 | | | | | |
| NCS HS 50704-2 | ZLD202 | 0.49 | 0.26 | 0.51 | 0.38 | 10.00 | margin | 1.70 | | 50×40×30 | | | | | |
| NCS HS 50704-3 | ZLD202 | 0.99 | 1.00 | 0.21 | 0.78 | 10.00 | margin | 0.17 | | 50×40×30 | | | | | |
| NCS HS 50704-4 | ZLD202 | 0.29 | 1.70 | 0.77 | 0.15 | 10.00 | margin | 0.28 | | 50×40×30 | | | | | |
| NCS HS 50704-5 | ZLD202 | 1.38 | 0.67 | 0.33 | 0.24 | 10.00 | margin | 0.91 | | 50×40×30 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (mm) | | | | |
| | | Fe | Si | Mn | Mg | Ni | Cu | Al | Zn | Sn | Pb | | | | |
| NCS HS 50705-1 | ZLD110 | 1.16 | 3.25 | 0.12 | 0.13 | 0.068 | 8.48 | margin | 0.124 | 0.0080 | 0.099 | 30×35×50 | | | |
| NCS HS 50705-2 | ZLD110 | 0.81 | 4.13 | 0.15 | 0.25 | 0.48 | 7.19 | margin | 0.18 | 0.0052 | 0.018 | 30×35×50 | | | |
| NCS HS 50705-3 | ZLD110 | 1.30 | 5.13 | 0.73 | 0.39 | 0.176 | 5.89 | margin | 0.69 | 0.017 | 0.071 | 30×35×50 | | | |
| NCS HS 50705-4 | ZLD110 | 0.50 | 6.21 | 0.46 | 0.58 | 0.30 | 4.81 | margin | 0.44 | 0.011 | 0.042 | 30×35×50 | | | |
| NCS HS 50705-5 | ZLD110 | 0.21 | 7.84 | 0.26 | 0.89 | 0.125 | 3.97 | margin | 0.26 | 0.028 | 0.028 | 30×35×50 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | | |
| | | Fe | Si | Mn | Mg | Ni | Cu | Al | Ti | Zn | Sn | Pb | | | |
| NCS HS 50707-1 | ZLD109 | 0.17 | 14.06 | 0.078 | 0.64 | 0.62 | 0.34 | margin | 0.11 | 0.12 | 0.044 | 0.037 | 30×35×50 | | |
| NCS HS 50707-2 | ZLD109 | 0.24 | 12.35 | 0.43 | 0.83 | 0.86 | 0.57 | margin | 0.14 | 0.43 | 0.0064 | 0.089 | 30×35×50 | | |
| NCS HS 50707-3 | ZLD109 | 0.39 | 11.61 | 0.21 | 1.19 | 1.00 | 0.82 | margin | 0.19 | 0.19 | 0.016 | 0.058 | 30×35×50 | | |
| NCS HS 50707-4 | ZLD109 | 0.58 | 10.64 | 0.28 | 1.28 | 1.58 | 1.18 | margin | 0.26 | 0.37 | 0.0074 | 0.14 | 30×35×50 | | |
| NCS HS 50707-5 | ZLD109 | 0.91 | 9.25 | 0.12 | 1.95 | 2.04 | 1.91 | margin | 0.049 | 0.050 | 0.031 | 0.21 | 30×35×50 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | | |
| | | Fe | Si | Mn | Mg | Ni | Cu | Al | Ti | Zn | Sn | Pb | | | |
| NCS HS 50708-1 | ZLD108 | 0.28 | 14.18 | 0.24 | 0.315 | 0.099 | 0.70 | margin | 0.145 | 0.084 | 0.0056 | 0.022 | 30×35×50 | | |
| NCS HS 50708-2 | ZLD108 | 0.324 | 12.61 | 0.36 | 1.17 | 0.19 | 1.015 | margin | 0.156 | 0.235 | 0.0173 | 0.034 | 30×35×50 | | |
| NCS HS 50708-3 | ZLD108 | 0.406 | 11.49 | 0.48 | 0.86 | 0.317 | 1.42 | margin | 0.18 | 0.106 | 0.011 | 0.052 | 30×35×50 | | |
| NCS HS 50708-4 | ZLD108 | 0.90 | 9.97 | 0.644 | 0.655 | 0.42 | 1.77 | margin | 0.105 | 0.133 | 0.021 | 0.071 | 30×35×50 | | |
| NCS HS 50708-5 | ZLD108 | 0.62 | 8.88 | 0.98 | 0.43 | 0.607 | 2.40 | margin | | 0.487 | 0.038 | 0.12 | 30×35×50 | | |

Section 8 Nonferrous Metal(Disk)

1)Aluminum & Aluminum Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | |
|-----------------|--------|-------------------------------|-------|-------|-------|-------|--------|-------------------|-------------------|----------|-------------------|
| | | Cu | Mg | Mn | Fe | Si | Zn | Sn | | | |
| NCS HS 50709a-1 | ZLD101 | 0.086 | 0.090 | 0.091 | 0.29 | 11.93 | 0.14 | | 35×35×40 | | |
| NCS HS 50709a-2 | ZLD101 | 0.18 | 0.17 | 0.44 | 0.78 | 9.01 | 0.17 | 0.0075 | 35×35×40 | | |
| NCS HS 50709a-3 | ZLD101 | 0.48 | 0.074 | | 0.17 | 9.99 | 0.30 | 0.012 | 35×35×40 | | |
| NCS HS 50709a-4 | ZLD101 | 0.29 | 0.31 | 0.24 | 1.12 | 6.28 | 0.10 | 0.0041 | 35×35×40 | | |
| NCS HS 50709a-5 | ZLD101 | 0.82 | 0.48 | 0.7 | 0.42 | 5.32 | 0.50 | 0.019 | 35×35×40 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (mm) |
| | | Fe | Si | Mn | Mg | Cu | Al | Zn | Sn | Pb | |
| NCS HS 50710-1 | ZLD203 | | 2.05 | 0.052 | 0.017 | 4.47 | margin | 0.070 | 0.006 | 0.020 | 30×35×50 |
| NCS HS 50710-2 | ZLD203 | 0.37 | 1.44 | 0.15 | 0.096 | 4.47 | margin | 0.091 | 0.022 | 0.025 | 30×35×50 |
| NCS HS 50710-3 | ZLD203 | 0.31 | 0.86 | 0.084 | 0.018 | 4.50 | margin | 0.30 | 0.014 | 0.043 | 30×35×50 |
| NCS HS 50710-4 | ZLD203 | 0.56 | 0.49 | 0.25 | 0.035 | 4.48 | margin | 0.16 | 0.012 | 0.072 | 30×35×50 |
| NCS HS 50710-5 | ZLD203 | 0.81 | 0.34 | 0.13 | 0.068 | 4.45 | margin | 0.30 | | 0.13 | 30×35×50 |
| NCS HS 50710-6 | ZLD203 | 0.27 | 1.32 | 0.19 | 0.062 | 4.56 | margin | 0.14 | 0.0095 | 0.028 | 30×35×50 |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | |
| | | Fe | Si | Mn | Mg | Cu | Al | Zn | | | |
| NCS HS 50711-1 | ZLD401 | 0.43 | 7.00 | 0.38 | 0.10 | 0.68 | margin | 11.00 | | 30×35×50 | |
| NCS HS 50711-2 | ZLD401 | 0.67 | 7.00 | 0.19 | 0.17 | 0.89 | margin | 11.01 | | 30×35×50 | |
| NCS HS 50711-3 | ZLD401 | 1.01 | 7.00 | 0.28 | 0.20 | 0.24 | margin | 11.02 | | 30×35×50 | |
| NCS HS 50711-4 | ZLD401 | 0.24 | 7.00 | 0.56 | 0.40 | 0.42 | margin | 11.03 | | 30×35×50 | |
| NCS HS 50711-5 | ZLD401 | 0.15 | 7.00 | 0.95 | 0.65 | 0.15 | margin | 11.04 | | 30×35×50 | |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (mm) | | | |
| | | Fe | Si | Mn | Fe | Si | Zn | | | | |
| NCS HS 50712-1 | ZLD203 | 0.28 | 3.78 | 0.48 | 1.00 | 1.73 | 0.41 | | 30×35×50 | | |
| NCS HS 50712-2 | ZLD203 | 0.17 | 4.34 | 0.32 | 0.70 | 0.85 | 0.22 | | 30×35×50 | | |
| NCS HS 50712-3 | ZLD203 | 1.10 | 5.30 | 0.172 | 0.46 | 1.13 | 0.164 | | 30×35×50 | | |
| NCS HS 50712-4 | ZLD203 | 0.055 | 6.57 | 0.11 | 0.29 | 0.65 | 0.11 | | 30×35×50 | | |
| NCS HS 50712-5 | ZLD203 | 0.036 | 7.68 | 0.063 | 0.17 | 0.48 | 0.071 | | 30×35×50 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | |
| | | Si | Mg | Mn | Fe | Cu | Zn | Ni | | | |
| NCS HS 50713-1 | ZL3 | 6.50 | 0.30 | 0.14 | 0.12 | 5.42 | 0.18 | 0.088 | 30×35×40 | | |
| NCS HS 50713-2 | ZL3 | 5.31 | 0.52 | 0.090 | 0.22 | 7.30 | 0.12 | 0.42 | 30×35×40 | | |
| NCS HS 50713-3 | ZL3 | 4.27 | 0.19 | 0.23 | 0.26 | 9.01 | 0.59 | 0.61 | 30×35×40 | | |
| NCS HS 50713-4 | ZL3 | 8.27 | | 0.68 | 0.44 | 4.30 | 0.90 | 0.052 | 30×35×40 | | |
| NCS HS 50713-5 | ZL3 | 6.40 | 0.67 | 0.42 | 0.68 | 6.18 | 0.37 | | 30×35×40 | | |

Section 8 Nonferrous Metal(Disk)

1)Aluminum & Aluminum Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
|----------------|----------------|-------------------------------|-------|--------|--------|--------|--------|-------------------|--------|-------------------|----------|-------------------|-------------------|
| | | Fe | Si | Mn | Mg | Ni | Cu | Ti | Zn | Sn | Pb | RE | |
| NCS HS 53703-1 | Pure Aluminum | 0.071 | 0.067 | 0.0077 | 0.0044 | 0.0092 | 0.015 | 0.012 | 0.0088 | | | | Φ38×32 |
| NCS HS 53703-2 | Pure Aluminum | 0.166 | 0.133 | 0.029 | 0.017 | 0.019 | 0.0093 | 0.026 | 0.013 | | | | Φ38×32 |
| NCS HS 53703-3 | Pure Aluminum | 0.59 | 0.58 | 0.014 | 0.022 | 0.032 | 0.291 | 0.041 | 0.122 | | | | Φ38×32 |
| NCS HS 53703-4 | Pure Aluminum | 0.35 | 0.29 | 0.055 | 0.040 | 0.054 | 0.033 | 0.062 | 0.035 | 0.047 | 0.035 | 0.029 | Φ38×32 |
| NCS HS 53703-5 | Pure Aluminum | 1.31 | 1.28 | 0.112 | 0.103 | 0.100 | 0.079 | 0.093 | 0.073 | | | | Φ38×32 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | |
| | | Fe | Si | Mn | Mg | Ni | Cu | Ti | Zn | Cr | Be | | |
| NCS HS53704-1 | Al Alloy | 1.17 | 0.907 | 1.04 | 1.71 | 0.153 | 0.222 | 0.218 | 0.293 | 0.130 | 0.000498 | | Φ38×32 |
| NCS HS53704-2 | Al Alloy | 0.392 | 0.587 | 0.417 | 3.41 | 0.076 | 0.083 | 0.100 | 0.031 | 0.066 | 0.000158 | | Φ38×32 |
| NCS HS53704-3 | Al Alloy | 0.654 | 0.379 | 0.215 | 4.72 | 0.102 | 0.117 | 0.168 | 0.178 | 0.391 | 0.00528 | | Φ38×32 |
| NCS HS53704-4 | Al Alloy | 0.248 | 0.187 | 0.742 | 6.62 | 0.034 | 0.033 | 0.021 | 0.111 | 0.022 | 0.00146 | | Φ38×32 |
| NCS HS53704-5 | Al Alloy | 0.122 | 0.082 | 0.102 | 7.81 | 0.023 | 0.012 | 0.060 | 0.047 | 0.183 | 0.00315 | | Φ38×32 |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (mm) | | | | | |
| | | Si | Mg | Mn | Fe | Cu | Zn | | | | | | |
| NCS HS 57701-1 | AlSi6 Cu4 | 4.71 | 0.19 | 0.57 | 0.41 | 5.28 | 0.59 | 45×33×28 | | | | | |
| NCS HS 57701-2 | AlSi6 Cu4 | 8.61 | 0.18 | 0.40 | 0.63 | 1.45 | 0.79 | 45×33×28 | | | | | |
| NCS HS 57701-3 | AlSi6 Cu4 | 5.63 | 0.40 | 0.79 | 0.50 | 3.54 | 1.25 | 45×33×28 | | | | | |
| NCS HS 57701-4 | AlSi6 Cu4 | 6.17 | 0.21 | 0.46 | 0.56 | 3.98 | 0.30 | 45×33×28 | | | | | |
| NCS HS 57701-5 | AlSi6 Cu4 | 9.49 | 0.23 | 0.21 | 1.01 | 0.99 | 0.77 | 45×33×28 | | | | | |
| NCS HS 57701-6 | AlSi6 Cu4 | 10.40 | 0.53 | 0.30 | 0.79 | 2.27 | 1.16 | 45×33×28 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
| | | Fe | Si | Zn | Cu | Mg | Mn | Ti | Ga | V | Cr | B | |
| NCS HS 91701-1 | Pure Aluminum | 0.055 | 0.047 | 0.0081 | 0.0056 | 0.0024 | 0.0019 | 0.0018 | 0.0042 | 0.0012 | 0.0005 | 0.0005 | Φ60×33 |
| NCS HS 91701-2 | Pure Aluminum | 0.14 | 0.11 | 0.031 | 0.01 | 0.022 | 0.0084 | 0.0063 | 0.03 | 0.0052 | 0.0015 | 0.0006 | Φ60×33 |
| NCS HS 91701-3 | Pure Aluminum | 0.773 | 0.634 | 0.035 | 0.03 | 0.0096 | 0.017 | 0.015 | 0.026 | 0.0028 | 0.0048 | 0.0022 | Φ60×33 |
| NCS HS 91701-4 | Pure Aluminum | 0.325 | 0.203 | 0.126 | 0.058 | 0.067 | 0.026 | 0.029 | 0.012 | 0.0047 | 0.0099 | 0.0039 | Φ60×33 |
| NCS HS 91701-5 | Pure Aluminum | 0.435 | 0.347 | 0.074 | 0.097 | 0.038 | 0.042 | 0.048 | 0.05 | 0.0086 | 0.015 | 0.0097 | Φ60×33 |
| NCS HS 91701-6 | Pure Aluminum | 0.744 | 0.537 | 0.106 | 0.147 | 0.069 | 0.065 | 0.079 | 0.076 | 0.029 | 0.025 | 0.016 | Φ60×33 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (mm) | | | |
| | | Fe | Si | Zn | Cu | Mg | Mn | Ti | Cr | | | | |
| NCS HS 91702-1 | Aluminum Alloy | 0.587 | 0.109 | 0.004 | 0.306 | 0.189 | 0.414 | 0.002 | 0.176 | | | | Φ60×33 |
| NCS HS 91702-2 | Aluminum Alloy | 0.457 | 0.199 | 0.012 | 0.202 | 0.396 | 0.314 | 0.0065 | 0.107 | | | | Φ60×33 |
| NCS HS 91702-3 | Aluminum Alloy | 0.358 | 0.39 | 0.158 | 0.05 | 0.589 | 0.053 | 0.085 | 0.054 | | | | Φ60×33 |
| NCS HS 91702-4 | Aluminum Alloy | 0.365 | 0.586 | 0.048 | 0.101 | 0.871 | 0.207 | 0.034 | 0.031 | | | | Φ60×33 |
| NCS HS 91702-5 | Aluminum Alloy | 0.155 | 0.785 | 0.071 | 0.02 | 1.23 | 0.105 | 0.053 | 0.011 | | | | Φ60×33 |
| NCS HS 91702-6 | Aluminum Alloy | 0.09 | 1.05 | 0.022 | 0.0092 | 1.51 | 0.021 | 0.011 | 0.0052 | | | | Φ60×33 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) |
| | | Si | Fe | Cu | Mg | Zn | Mn | Ti | Sn | Pb | Zr | Ni | |
| NCS HS 11901 | Aluminum Alloy | 7.18 | 0.459 | 0.210 | 0.43 | 0.179 | 0.335 | 0.123 | 0.011 | 0.056 | 0.117 | | Φ50×30 |
| NCS HS 11902 | Aluminum Alloy | 8.24 | 0.464 | 1.50 | 0.52 | 0.178 | 0.485 | 0.225 | 0.010 | 0.048 | | 0.012 | Φ50×30 |

Section 8 Nonferrous Metal(Disk)

2)Copper & Copper Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (mm) |
|----------------|----------------|-------------------------------|--------|--------|--------|--------|---------|--------|--------|---------|--------|-------------------|-------------------|-------------------|
| | | Fe | P | Zn | Sn | Sb | Pb | Bi | Cu | Ni | Si | Mn | Al | |
| NCS HS 28703-1 | Pb brass | 0.028 | 0.0043 | 23.99 | 0.019 | 0.0036 | 2.77 | 0.0009 | 73 | 0.003 | | 0.0048 | | Φ35×28 |
| NCS HS 28703-2 | Pb brass | 0.036 | 0.012 | 33.45 | 0.32 | 0.0034 | 1.87 | 0.0015 | 64.43 | 0.0023 | 0.0012 | 0.174 | 0.015 | Φ35×28 |
| NCS HS 28703-3 | Pb brass | 0.047 | 0.0042 | 38.79 | 0.108 | 0.0061 | 0.766 | 0.0015 | 60.28 | 0.0019 | | 0.0046 | | Φ35×28 |
| NCS HS 28703-4 | Pb brass | 0.167 | 0.011 | 38.85 | 0.102 | 0.0077 | 1.5 | 0.0024 | 59.14 | 0.0027 | 0.0016 | 0.031 | 0.064 | Φ35×28 |
| NCS HS 28703-5 | Pb brass | 0.11 | 0.02 | 39.59 | 0.269 | 0.013 | 1.81 | 0.0025 | 58.07 | 0.0025 | | 0.029 | 0.034 | Φ35×28 |
| NCS HS 28703-6 | Pb brass | 0.037 | 0.044 | 41.76 | 0.478 | 0.022 | 0.581 | 0.001 | 59.62 | 0.0023 | | 0.05 | 0.271 | Φ35×28 |
| NCS HS 28703-7 | Pb brass | 0.502 | 0.02 | 34.92 | 0.75 | 0.029 | 3.06 | 0.0083 | 59.55 | 0.0035 | 0.0077 | 0.464 | 0.364 | Φ35×28 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | |
| | | Fe | P | Zn | Sn | Sb | Pb | Bi | Cu | Ni | Si | As | | |
| NCS HS 28704-1 | Copper alloy | 0.288 | 0.084 | 39.01 | 0.0047 | 0.023 | 0.318 | 0.0016 | 59.89 | 0.015 | | 0.043 | | Φ35×28 |
| NCS HS 28704-2 | Copper alloy | 0.116 | 0.039 | 37.53 | 0.0051 | 0.0046 | 0.108 | 0.0028 | 61.88 | 0.0032 | 0.0029 | 0.0038 | | Φ35×28 |
| NCS HS 28704-3 | Copper alloy | 0.052 | 0.011 | 30.44 | 0.0081 | 0.0072 | 0.018 | 0.0043 | 69.08 | 0.006 | | 0.0094 | | Φ35×28 |
| NCS HS 28704-4 | Copper alloy | 0.11 | 0.013 | 18.75 | 0.01 | 0.01 | 0.017 | 0.0084 | 80.9 | 0.013 | | 0.027 | | Φ35×28 |
| NCS HS 28704-5 | Copper alloy | 0.028 | 0.0052 | 14.79 | 0.011 | 0.0091 | 0.029 | 0.0066 | 85.06 | 0.0045 | 0.0019 | 0.0079 | | Φ35×28 |
| NCS HS 28704-6 | Copper alloy | 0.024 | 0.0071 | 9.76 | 0.0010 | 0.0031 | 0.0084 | 0.0054 | 90.02 | 0.0045 | | 0.0019 | | Φ35×28 |
| NCS HS 28704-7 | Copper alloy | 0.012 | 0.0046 | 4.02 | 0.0010 | 0.0013 | 0.0028 | 0.0019 | 95.9 | 0.0047 | 0.0024 | 0.0021 | | Φ35×28 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | |
| | | Fe | Si | Mn | P | Mg | Cu | As | Sb | Pb | Bi | | | |
| NCS HS 43708-1 | Monel Metal | (2.33) | 0.035 | 1.12 | 0.011 | 0.012 | (28.64) | 0.030 | 0.0014 | 0.0021 | 0.0011 | | | 23×28×70 |
| NCS HS 43708-2 | Monel Metal | (2.67) | 0.0225 | 1.16 | 0.0048 | 0.096 | (28.06) | 0.0076 | 0.0018 | 0.0026 | 0.0016 | | | 23×28×70 |
| NCS HS 43708-3 | Monel Metal | (2.48) | 0.21 | 1.53 | 0.014 | 0.40 | (27.69) | 0.049 | 0.0063 | | 0.0028 | | | 23×28×70 |
| NCS HS 43708-4 | Monel Metal | (2.42) | 0.035 | 1.31 | 0.0054 | 0.042 | (27.85) | 0.015 | 0.0040 | 0.0056 | 0.0047 | | | 23×28×70 |
| NCS HS 43708-5 | Monel Metal | (2.42) | 0.078 | 1.58 | 0.020 | 0.19 | (28.11) | 0.0063 | 0.0026 | 0.010 | 0.0079 | | | 23×28×70 |
| NCS HS 43708-6 | Monel Metal | (2.36) | | 1.40 | | | (28.29) | | | 0.0013 | | | | 23×28×70 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | |
| | | Fe | Si | Mn | P | Ni | Zn | Sn | As | Sb | Pb | | | |
| NCS HS 43709-1 | Silicon Bronze | 0.089 | (2.83) | (1.21) | 0.015 | 0.075 | 0.90 | 0.50 | 0.0010 | 0.00104 | 0.0102 | | | Φ30×57 |
| NCS HS 43709-2 | Silicon Bronze | 0.16 | (3.03) | (1.21) | 0.026 | 0.13 | 0.55 | 0.30 | 0.0017 | 0.0017 | 0.017 | | | Φ30×57 |
| NCS HS 43709-3 | Silicon Bronze | 0.21 | (3.04) | (1.24) | 0.036 | 0.18 | 0.36 | 0.19 | 0.0026 | 0.0025 | 0.024 | | | Φ30×57 |
| NCS HS 43709-4 | Silicon Bronze | 0.34 | (3.04) | (1.25) | 0.56 | 0.26 | 0.23 | 0.12 | 0.0042 | 0.0042 | 0.036 | | | Φ30×57 |
| NCS HS 43709-5 | Silicon Bronze | 0.56 | (2.93) | (1.17) | 0.088 | 0.41 | 0.16 | 0.070 | 0.0068 | 0.0066 | 0.059 | | | Φ30×57 |

Section 8 Nonferrous Metal(Disk)

2)Copper & Copper Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | | | | |
|------------------|-----------------|-------------------------------|--------|---------|---------|--------|---------|---------|-------------------|--------|---------|-------------------|-------------------|--------|
| | | Fe | Mn | Al | | | | | | | | | | |
| NCS HS 43712-1 | Aluminum Bronze | 4.94 | 2.63 | 7.76 | | | | | Φ32×45 | | | | | |
| NCS HS 43712-2 | Aluminum Bronze | 4.17 | 2.92 | 8.78 | | | | | Φ32×45 | | | | | |
| NCS HS 43712-3 | Aluminum Bronze | 3.51 | 2.01 | 9.75 | | | | | Φ32×45 | | | | | |
| NCS HS 43712-4 | Aluminum Bronze | 2.45 | 1.37 | 11.75 | | | | | Φ32×45 | | | | | |
| NCS HS 43712-5 | Aluminum Bronze | 1.63 | 0.61 | 10.85 | | | | | Φ32×45 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | | | | |
| | | Fe | P | Cu | As | Sb | Pb | Bi | | | | | | |
| NCS HS 43714-1 | H68,Brass | 0.251 | 0.041 | (65.73) | 0.016 | 0.025 | 0.013 | 0.0084 | Φ32×40 | | | | | |
| NCS HS 43714-2 | H68,Brass | 0.138 | 0.024 | (68.37) | 0.046 | 0.0046 | 0.028 | 0.0016 | Φ32×40 | | | | | |
| NCS HS 43714-3 | H68,Brass | 0.078 | 0.012 | (67.24) | 0.126 | 0.0084 | 0.042 | 0.0030 | Φ32×40 | | | | | |
| NCS HS 43714-4 | H68,Brass | 0.041 | 0.0087 | (65.66) | 0.078 | 0.014 | 0.079 | 0.0048 | Φ32×40 | | | | | |
| NCS HS 43714-5 | H68,Brass | 0.024 | 0.0054 | (68.60) | 0.027 | 0.0025 | 0.139 | 0.00073 | Φ32×40 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | | | | |
| | | Fe | P | Cu | As | Sb | Pb | Bi | | | | | | |
| NCS HS 43715-1 | Brass | 0.046 | 0.0092 | 60.03 | | 0.016 | 0.074 | 0.0049 | Φ35X23 | | | | | |
| NCS HS 43715-2 | Brass | 0.018 | 0.0046 | 62.40 | | 0.0026 | 0.132 | 0.00075 | Φ35X23 | | | | | |
| NCS HS 43715-3 | Brass | 0.251 | 0.041 | 65.73 | 0.016 | 0.025 | 0.013 | 0.0088 | Φ35X23 | | | | | |
| NCS HS 43715-4 | Brass | 0.153 | 0.022 | 68.73 | 0.048 | 0.0051 | 0.028 | 0.0016 | Φ35X23 | | | | | |
| NCS HS 43715-5 | Brass | 0.338 | 0.013 | 58.96 | 0.088 | 0.011 | 0.391 | 0.0030 | Φ35X23 | | | | | |
| NCS HS 43715-6 | Brass | 0.473 | 0.038 | 71.88 | 0.129 | 0.020 | 0.251 | 0.0061 | Φ35X23 | | | | | |
| NCS HS 43715-7 | Brass | | 0.062 | 55.39 | | | 0.563 | | Φ35X23 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | |
| | | Pb | Fe | Bi | Sb | As | Sn | N1 | Zn | P | S | Se | | Te |
| NCS HS 43716a-1 | Pure Copper | | 0.0022 | | | | | | 0.0015 | 0.02 | 0.0013 | 0.0013 | 0.0016 | Φ40X40 |
| NCS HS 43716a-2 | Pure Copper | 0.0016 | 0.007 | 0.0006 | 0.0021 | 0.0013 | 0.00097 | 0.0025 | 0.0024 | 0.0017 | 0.0021 | 0.0013 | 0.0016 | Φ40X40 |
| NCS HS 43716a-3 | Pure Copper | 0.0037 | 0.0047 | 0.0033 | 0.0032 | 0.0026 | 0.0018 | 0.0035 | 0.0042 | 0.0029 | 37 | 0.0022 | 0.0016 | Φ40X40 |
| NCS HS 43716a-4 | Pure Copper | 0.00097 | 0.0032 | 0.00095 | 0.00098 | 0.0032 | 0.0037 | 0.0011 | 0.0087 | 0.0088 | 0.0019 | | | Φ40X40 |
| NCS HS 43716a-5 | Pure Copper | 0.0079 | | 0.0017 | 0.0052 | 0.0052 | 0.007 | 0.0118 | 0.0182 | 0.0103 | 0.0050 | 0.0051 | 0.0052 | Φ40X40 |
| NCS HS 43716a-6 | Pure Copper | 0.0154 | 0.0475 | 0.0059 | 0.0077 | 0.0083 | 0.0142 | 0.009 | | 0.0222 | 0.0047 | 0.0071 | 0.0082 | Φ40X40 |
| NCS HS 43716a-7 | Pure Copper | 0.0445 | 0.0652 | 0.019 | 0.021 | 0.025 | 0.0489 | 0.0423 | 0.0443 | 0.0414 | 0.0044 | 0.0109 | 0.012 | Φ40X40 |
| NCS HS 43716a-8 | Pure Copper | 0.0312 | 0.0198 | 0.0093 | 0.0108 | 0.0136 | 0.0183 | 0.0242 | 0.0331 | 0.0299 | 0.0063 | 0.007 | 0.0054 | Φ40X40 |
| NCS HS 43716a-9 | Pure Copper | 0.0558 | | 0.0062 | 0.0078 | 0.0139 | 0.0689 | 0.0687 | 0.0247 | 0.0587 | 0.0091 | 0.0104 | 0.0087 | Φ40X40 |
| NCS HS 43716a-10 | Pure Copper | 0.0057 | 0.142 | 0.0019 | | 0.0201 | 0.0592 | 0.0527 | 0.0512 | 0.0336 | 0.0077 | | | Φ40X40 |
| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | | | | |
| | | Cu | Fe | Pb | Sb | P | Bi | | | | | | | |
| NCS HS 43717-1 | H62,Brass | (61.96) | 0.242 | 0.022 | 0.025 | 0.061 | 0.0081 | | Φ35X40 | | | | | |
| NCS HS 43717-2 | H62,Brass | (61.71) | 0.131 | 0.042 | 0.0046 | 0.035 | 0.0015 | | Φ35X40 | | | | | |
| NCS HS 43717-3 | H62,Brass | (61.33) | 0.076 | 0.255 | 0.0083 | 0.018 | 0.0029 | | Φ35X40 | | | | | |
| NCS HS 43717-4 | H62,Brass | (60.63) | 0.046 | 0.074 | 0.016 | 0.092 | 0.0049 | | Φ35X40 | | | | | |
| NCS HS 43717-5 | H62,Brass | 62.40 | 0.018 | 0.132 | 0.0026 | 0.0046 | 0.00075 | | Φ35X40 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | |
| | | Cu | Ag | Sn | Ni | Fe | Si | Zn | C | S | Cd | | Cr | |
| NCS HS 43720-1 | Copper alloy | 99.995 | 0.0011 | <0.0002 | <0.0002 | 0.0003 | <0.0002 | <0.0002 | <0.0002 | 0.0003 | <0.0002 | 0.001 | Φ35X25 | |
| NCS HS 43720-2 | Copper alloy | 98.5 | 0.092 | 0.059 | 0.039 | 0.11 | 0.034 | 0.12 | | 0.04 | 0.075 | Φ35X25 | | |
| NCS HS 43720-3 | Copper alloy | 98.77 | 0.003 | 0.002 | 0.053 | 0.1 | 0.042 | | | | 0.81 | Φ35X25 | | |
| NCS HS 43720-4 | Copper alloy | 59.79 | | 0.42 | 0.39 | | 1.04 | 35.49 | | | | Φ35X25 | | |
| NCS HS 43720-5 | Copper alloy | 78.22 | | 0.26 | 4.46 | 3.34 | 0.3 | 0.73 | | | | Φ35X25 | | |
| NCS HS 43720-6 | Copper alloy | 66.53 | | 0.1 | 29.45 | 1.08 | 0.25 | 0.58 | 0.1 | | | Φ35X25 | | |
| NCS HS 43720-7 | Copper alloy | 85.43 | | 0.059 | 11.07 | 1.18 | 0.1 | 0.42 | 0.008 | | | Φ35X25 | | |

Section 8 Nonferrous Metal(Disk)

2)Copper & Copper Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | |
|----------------|--------------|-------------------------------|--------|---------|---------|---------|---------|----------|--------|----------|----------|-----------|-------------------|--------|
| | | Zr | Mg | Co | Mn | Sb | Al | As | P | Se | Te | Bi | | |
| NCS HS 43720-1 | Copper alloy | 0.0003 | 0.0003 | <0.0002 | <0.0001 | <0.0002 | <0.0002 | 0.0003 | 0.0006 | <0.0002 | <0.0002 | <0.0002 | | |
| NCS HS 43720-2 | Copper alloy | | 0.005 | 0.095 | 0.059 | 0.061 | 0.12 | 0.29 | 0.071 | 0.006 | 0.059 | 0.035 | | |
| NCS HS 43720-3 | Copper alloy | 0.13 | 0.081 | | | 0.006 | 0.019 | 0.015 | 0.001 | | | 0.001 | | |
| NCS HS 43720-4 | Copper alloy | | | | 0.57 | | 1.16 | 0.023 | 0.025 | | | 0.005 | | |
| NCS HS 43720-5 | Copper alloy | | | | 2.97 | 0.006 | 9.44 | | 0.018 | | | | | |
| NCS HS 43720-6 | Copper alloy | | 0.07 | 0.49 | 1.06 | 0.021 | 0.19 | | 0.012 | | | | | |
| NCS HS 43720-7 | Copper alloy | | | 0.59 | 1.09 | 0.006 | | 0.024 | 0.01 | | | 0.006 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | |
| | | Sn | Zn | Pb | Fe | Ni | Bi | Sb | P | As | Mg | S | | Co |
| NCS HS 43722-1 | Copper alloy | 0.1 | 0.294 | 0.098 | 0.536 | 0.05 | 0.0005 | 0.006 | 0.195 | 0.028 | 0.073 | 0.0056 | 0.024 | Φ40×45 |
| NCS HS 43722-2 | Copper alloy | 0.048 | 0.047 | 0.05 | 1.37 | 0.03 | 0.005 | 0.0021 | 0.051 | 0.0094 | 0.2 | 0.0028 | 0.048 | Φ40×45 |
| NCS HS 43722-3 | Copper alloy | 0.03 | 0.122 | 0.031 | 2.25 | 0.009 | 0.0022 | 0.0022 | 0.027 | 0.0043 | 0.015 | 0.0009 | 0.1 | Φ40×45 |
| NCS HS 43722-4 | Copper alloy | 0.015 | 0.0031 | 0.01 | 2.61 | 0.0024 | 0.011 | 0.021 | 0.111 | 0.002 | 0.084 | 0.0009 | 0.14 | Φ40×45 |
| NCS HS 43722-5 | Copper alloy | 0.0054 | 0.027 | 0.0063 | 2.37 | 0.001 | 0.022 | 0.011 | 0.0054 | 0.02 | 0.011 | 0.0019 | 0.01 | Φ40×45 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | |
| | | Sn | Pb | Fe | Ni | Bi | Sb | P | Cu | As | S | | | |
| NCS HS 43723-1 | Copper alloy | 1.038 | 0.0054 | 0.448 | 0.98 | 3.002 | 0.0022 | 0.015 | 59.387 | 0.029 | 0.0011 | | | Φ40×45 |
| NCS HS 43723-2 | Copper alloy | 0.306 | 0.105 | 0.093 | 0.32 | 0.414 | 0.03 | 0.0088 | 60.903 | 0.015 | 0.0015 | | | Φ40×45 |
| NCS HS 43723-3 | Copper alloy | 0.518 | 0.0161 | 0.137 | 2.13 | 1.561 | 0.014 | 0.087 | 60.088 | 0.0054 | 0.012 | | | Φ40×45 |
| NCS HS 43723-4 | Copper alloy | 2.007 | 0.0209 | 0.645 | 2.94 | 0.826 | 0.1 | 0.0039 | 60.14 | 0.0097 | 0.015 | | | Φ40×45 |
| NCS HS 43723-5 | Copper alloy | 3.02 | 0.0059 | 0.0113 | 0.11 | 0.108 | 0.0047 | 0.0016 | 61.642 | 0.002 | 0.0018 | | | Φ40×45 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (mm) | |
| | | Cu | Pb | Fe | Ni | Mn | Al | Si | Sn | Bi | Sb | P | | S |
| NCS HS 43724-1 | Lead Brass | 59.984 | 0.414 | 0.205 | 0.474 | 0.119 | 0.0749 | 0.0049 | 0.0099 | (0.0110) | (0.0056) | (0.00077) | (0.00077) | Φ40×20 |
| NCS HS 43724-2 | Lead Brass | 57.767 | 0.760 | 0.0426 | 0.795 | 0.184 | 0.0116 | 0.0093 | 0.0979 | (0.0050) | (0.0021) | (0.0015) | (0.0015) | Φ40×20 |
| NCS HS 43724-3 | Lead Brass | 57.089 | 1.421 | 0.0104 | 0.347 | | 0.177 | 0.0520 | 0.192 | (0.0030) | (0.0116) | (0.00099) | (0.00099) | Φ40×20 |
| NCS HS 43724-4 | Lead Brass | 58.641 | 1.810 | (0.703) | 0.104 | 0.0188 | 0.452 | (0.0070) | 0.293 | (0.0049) | (0.0102) | (0.00060) | (0.00060) | Φ40×20 |
| NCS HS 43724-5 | Lead Brass | 58.761 | 2.396 | 0.107 | 0.0286 | 0.0517 | 0.761 | 0.209 | 0.689 | (0.0010) | (0.0048) | (0.0010) | (0.0010) | Φ40×20 |
| NCS HS 43724-6 | Lead Brass | 59.597 | 1.393 | 0.613 | 0.386 | 0.0345 | 0.262 | 0.0424 | 0.206 | (0.0030) | (0.0291) | (0.00094) | (0.00094) | Φ40×20 |

Section 8 Nonferrous Metal(Disk)

2)Copper & Copper Alloy

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (mm) |
|----------------|----------------|-------------------------------|---------|---------|---------|---------|---------|-------------------|---------|-------------------|---------|---------|---------|-------------------|
| | | Cu | Ni | Zn | Pb | Fe | Si | Mn | P | Mg | Bi | Sb | As | |
| NCS HS 45716-1 | Ni Brass | 75.85 | 2.06 | 20.14 | 0.064 | 0.86 | 0.015 | 0.97 | 0.0032 | 0.0096 | 0.0102 | 0.0103 | 0.0039 | Φ38×30 |
| NCS HS 45716-2 | Ni Brass | 75.44 | 3.5 | 19.62 | 0.04 | 0.63 | 0.06 | 0.65 | 0.0051 | 0.032 | 0.007 | 0.0072 | 0.007 | Φ38×30 |
| NCS HS 45716-3 | Ni Brass | 75.43 | 4.95 | 18.68 | 0.025 | 0.35 | 0.118 | 0.37 | 0.009 | 0.05 | 0.0039 | 0.004 | 0.0104 | Φ38×30 |
| NCS HS 45716-4 | Ni Brass | 75.87 | 6.42 | 16.79 | 0.015 | 0.23 | 0.333 | 0.24 | 0.016 | 0.069 | 0.002 | 0.002 | 0.014 | Φ38×30 |
| NCS HS 45716-5 | Ni Brass | 75.82 | 7.85 | 15.48 | 0.0056 | 0.085 | 0.498 | 0.104 | 0.022 | 0.11 | 0.0011 | 0.0011 | 0.02 | Φ38×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (mm) | | | | |
| | | Cu | Sn | Ni | Al | Fe | Pb | P | Zn | | | | | |
| NCS HS 45721-1 | Sn Bronze | remain | 4.06 | 0.31 | 0.00096 | 0.116 | 0.072 | 0.33 | 0.22 | Φ39X30 | | | | |
| NCS HS 45721-2 | Sn Bronze | remain | 5.39 | 0.24 | 0.00096 | 0.014 | 0.091 | 0.062 | 0.47 | Φ39X30 | | | | |
| NCS HS 43715-3 | Sn Bronze | remain | 6.34 | 0.178 | 0.00085 | 0.034 | 0.031 | 0.154 | 0.43 | Φ39X30 | | | | |
| NCS HS 45721-4 | Sn Bronze | remain | 7.16 | 0.118 | 0.00098 | 0.063 | 0.013 | 0.218 | 0.33 | Φ39X30 | | | | |
| NCS HS 45721-5 | Sn Bronze | remain | 8.27 | 0.053 | 0.004 | 0.089 | 0.049 | 0.289 | 0.24 | Φ39X30 | | | | |
| NCS HS 45721-6 | Sn Bronze | remain | 6.52 | 0.18 | 0.0013 | 0.019 | 0.02 | 0.31 | 34 | Φ39X30 | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (mm) |
| | | Se | Te | Bi | Cr | Mn | Sb | Cd | As | P | Pb | S | Sn | |
| NCS HS 52704-1 | Cathode Copper | 0.00002 | 0.00003 | 0.00002 | 0.00002 | 0.00003 | 0.00002 | 0.00001 | 0.00001 | 0.00005 | 0.00003 | 0.00015 | 0.00001 | Φ40X30 |
| NCS HS 52704-2 | Cathode Copper | 0.00011 | 0.00007 | 0.00004 | 0.00003 | 0.00005 | 0.00003 | 0.00013 | 0.00014 | 0.00015 | 0.00016 | 0.00021 | 0.00009 | Φ40X30 |
| NCS HS 52704-3 | Cathode Copper | 0.00019 | 0.00015 | 0.00014 | 0.00046 | 0.00042 | 0.00028 | 0.00046 | 0.00057 | 0.00085 | 0.00055 | 0.0019 | 0.00055 | Φ40X30 |
| NCS HS 52704-4 | Cathode Copper | 0.00034 | 0.00041 | 0.00059 | 0.0012 | 0.0011 | 0.0015 | 0.0012 | 0.0018 | 0.0026 | 0.0021 | 0.0039 | 0.0012 | Φ40X30 |
| NCS HS 52704-5 | Cathode Copper | 0.00087 | 0.0011 | 0.0012 | 0.0032 | 0.0027 | 0.0031 | 0.003 | 0.0038 | 0.0056 | 0.0044 | 0.0082 | 0.0026 | Φ40X30 |
| Number | Name | Chemical Composition(Percent) | | | | | | Unit Size (mm) | | | | | | |
| | | Ni | Fe | Si | Zn | Co | Ag | | | | | | | |
| NCS HS 52704-1 | Cathode Copper | 0.00009 | 0.00016 | 0.00015 | 0.00004 | 0.00001 | 0.00007 | Φ40X30 | | | | | | |
| NCS HS 52704-2 | Cathode Copper | 0.00021 | 0.00014 | 0.00009 | 0.00014 | 0.00013 | 0.0011 | Φ40X30 | | | | | | |
| NCS HS 52704-3 | Cathode Copper | 0.00061 | 0.00066 | 0.00054 | 0.00093 | 0.00056 | 0.003 | Φ40X30 | | | | | | |
| NCS HS 52704-4 | Cathode Copper | 0.0023 | 0.0024 | 0.0014 | 0.0026 | 0.0018 | 0.0053 | Φ40X30 | | | | | | |
| NCS HS 52704-5 | Cathode Copper | 0.006 | 0.0054 | 0.0034 | 0.0052 | 0.0035 | 0.0072 | Φ40X30 | | | | | | |

Section 8 Nonferrous Metal(Disk)

3)Magnesium & Other Metal

| Number | Name | Chemical Composition(Percent) | | | | | Unit Size (mm) | | | | |
|----------------|-----------------|-------------------------------|---------|----------|--------|----------|-------------------|---------|----------|-------------------|-------------------|
| | | Fe | Si | Al | C | V | | | | | |
| NCS HS 44701-1 | Titanium alloy | 0.39 | 0.277 | 3.9 | 0.158 | 5.65 | Φ36X25 | | | | |
| NCS HS 44701-2 | Titanium alloy | 0.314 | 0.196 | 4.67 | 0.119 | 5.01 | Φ36X25 | | | | |
| NCS HS 44701-3 | Titanium alloy | 0.239 | 0.115 | 5.38 | 0.095 | 3.41 | Φ36X25 | | | | |
| NCS HS 44701-4 | Titanium alloy | 0.143 | 0.052 | 6.48 | 0.051 | 4.46 | Φ36X25 | | | | |
| NCS HS 44701-5 | Titanium alloy | 0.131 | 0.085 | 6.78 | 0.023 | 3.85 | Φ36X25 | | | | |
| NCS HS 44701-6 | Titanium alloy | 0.073 | 0.031 | 7.03 | 0.0193 | 2.75 | Φ36X25 | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (mm) | |
| | | S1 | Fe | Cu | Mn | Ni | Zn | Al | Be | | |
| NCS HS 49722-1 | Magnesium Alloy | 0.026 | 0.0025 | (0.0024) | 0.016 | 0.0006 | (0.0069) | 5.81 | 0.00007 | Φ45X25 | |
| NCS HS 49722-2 | Magnesium Alloy | 0.024 | 0.0042 | 0.0036 | 0.077 | 0.0010 | 3.76 | 4.68 | 0.00009 | Φ45X25 | |
| NCS HS 49722-3 | Magnesium Alloy | 0.097 | 0.013 | 0.087 | 0.339 | 0.0045 | 2.99 | 7.18 | 0.00044 | Φ45X25 | |
| NCS HS 49722-4 | Magnesium Alloy | 0.28 | 0.023 | 0.164 | 0.231 | (0.013) | 1.94 | 6.96 | 0.0010 | Φ45X25 | |
| NCS HS4 9722-5 | Magnesium Alloy | 0.176 | (0.020) | 0.295 | (0.68) | 0.018 | 0.217 | 11.52 | (0.0023) | Φ45X25 | |
| NCS HS 49722-6 | Magnesium Alloy | 0.43 | 0.039 | 0.0098 | 0.61 | 0.0036 | 0.98 | 9.07 | 0.0029 | Φ45X25 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (mm) | |
| | | Si | Fe | Cu | Mn | Ni | Zn | Al | Be | | |
| NCS HS 49723-1 | Magnesium Alloy | 0.034 | (0.039) | 0.0029 | 0.92 | 0.0012 | 0.057 | 6.10 | (0.0020) | Φ45X25 | |
| NCS HS 49723-2 | Magnesium Alloy | 0.173 | 0.0089 | 0.0081 | 0.338 | 0.0008 | 0.237 | 2.55 | 0.0009 | Φ45X25 | |
| NCS HS 49723-3 | Magnesium Alloy | 0.27 | 0.015 | 0.020 | 0.182 | (0.0015) | 0.171 | 7.33 | 0.00015 | Φ45X25 | |
| NCS HS 49723-4 | Magnesium Alloy | 0.286 | (0.016) | 0.020 | 0.428 | (0.0068) | 0.271 | 6.29 | (0.0010) | Φ45X25 | |
| NCS HS 49723-5 | Magnesium Alloy | 0.239 | 0.025 | 0.013 | (0.65) | 0.0025 | 0.105 | 4.57 | 0.0009 | Φ45X25 | |
| NCS HS 49723-6 | Magnesium Alloy | 0.065 | 0.0049 | 0.010 | 0.130 | 0.010 | 0.492 | 1.36 | 0.0033 | Φ45X25 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (mm) |
| | | Si | Fe | Cu | Mn | Zn | Ti | Ni | Al | Pb | |
| NCS HS 49725-1 | Pure Magnesium | 0.011 | 0.0028 | 0.0012 | 0.017 | 0.011 | 0.00027 | 0.00035 | 0.011 | 0.0052 | Φ45X25 |
| NCS HS 49725-2 | Pure Magnesium | 0.062 | 0.027 | 0.0077 | 0.085 | 0.047 | 0.00018 | 0.011 | 0.531 | 0.037 | Φ45X25 |
| NCS HS 49725-3 | Pure Magnesium | 0.023 | 0.0083 | 0.0087 | 0.019 | 0.012 | 0.000062 | 0.0021 | 0.017 | 0.0067 | Φ45X25 |
| NCS HS 49725-4 | Pure Magnesium | 0.034 | 0.0069 | 0.014 | 0.023 | 0.019 | 0.0012 | 0.0044 | 0.262 | 0.012 | Φ45X25 |
| NCS HS 49725-5 | Pure Magnesium | 0.0063 | 0.0022 | 0.00063 | 0.0060 | 0.0076 | 0.000072 | 0.00033 | 0.0059 | 0.0020 | Φ45X25 |
| NCS HS 49725-6 | Pure Magnesium | 0.020 | 0.020 | 0.025 | 0.148 | 0.025 | 0.0025 | 0.0052 | 1.06 | 0.018 | Φ45X25 |
| NCS HS 49725-7 | Pure Magnesium | 0.030 | 0.0055 | 0.0039 | 0.017 | 0.013 | 0.00010 | 0.0013 | 0.0082 | 0.0067 | Φ45X25 |

Section 8 Nonferrous Metal(Disk)

3)Magnesium & Other Metal

| Number | Name | Chemical Composition(Percent) | | | | | | | Unit Size (mm) | | | |
|----------------|------------------------|-------------------------------|--------|---------|---------|---------|-------------------|---------|-------------------|-------------------|---------|-------------------|
| | | As | Bi | Sn | Ag | Sb | Cd | Pb | | | | |
| NCS HS 45723-1 | Pb-Sn Alloy | 0.0032 | 0.0053 | 0.884 | 0.0022 | 0.02 | 0.0038 | remain | D45x25 | | | |
| NCS HS 45723-2 | Pb-Sn Alloy | 0.0087 | 0.0191 | 2.02 | 0.0068 | 0.056 | 0.0042 | remain | D45x25 | | | |
| NCS HS 45723-3 | Pb-Sn Alloy | 0.013 | 0.034 | 3.05 | 0.0112 | 0.093 | 0.0091 | remain | D45x25 | | | |
| NCS HS 45723-4 | Pb-Sn Alloy | 0.02 | 0.0491 | 4.16 | 0.0156 | 0.137 | 0.0126 | remain | D45x25 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) |
| | | Cu | Ag | Bi | As | Sb | Sn | Zn | Ni | Cd | Fe* | |
| NCS HS 52702-1 | Pure Lead | 0.0004 | 0.0002 | 0.00055 | 0.00012 | 0.00025 | 0.00015 | 0.00015 | 0.00015 | 0.0001 | 0.00025 | Φ40X25 |
| NCS HS 52702-2 | Pure Lead | 0.0011 | 0.0011 | 0.0047 | 0.00043 | 0.0017 | 0.0002 | 0.00032 | 0.00063 | 0.00055 | 0.0003 | Φ40X25 |
| NCS HS 52702-3 | Pure Lead | 0.0029 | 0.0025 | 0.021 | 0.00092 | 0.0056 | 0.00025 | 0.0004 | 0.0015 | 0.001 | 0.0003 | Φ40X25 |
| NCS HS 52702-4 | Pure Lead | 0.0056 | 0.0051 | 0.041 | 0.0053 | 0.023 | 0.00075 | 0.001 | 0.0019 | 0.0019 | 0.00027 | Φ40X25 |
| NCS HS 52702-5 | Pure Lead | 0.0142 | 0.0102 | 0.069 | 0.0145 | 0.058 | 0.0012 | 0.0012 | 0.0033 | 0.0029 | 0.0005 | Φ40X25 |
| Number | Name | Chemical Composition(Percent) | | | | | Unit Size (mm) | | | | | |
| | | Ca | Sn | Al | Bi | Ag | | | | | | |
| NCS HS 52703-1 | Lead-Tin-Calcium alloy | 0.021 | 0.125 | 0.0037 | 0.0034 | 0.0087 | Φ48X30 | | | | | |
| NCS HS 52703-2 | Lead-Tin-Calcium alloy | 0.067 | 0.626 | 0.0093 | 0.013 | 0.0065 | Φ48X30 | | | | | |
| NCS HS 52703-3 | Lead-Tin-Calcium alloy | 0.111 | 0.95 | 0.014 | 0.022 | 0.0087 | Φ48X30 | | | | | |
| NCS HS 52703-4 | Lead-Tin-Calcium alloy | 0.168 | 1.35 | 0.027 | 0.033 | 0.012 | Φ48X30 | | | | | |
| NCS HS 52703-5 | Lead-Tin-Calcium alloy | 0.302 | 1.63 | 0.036 | 0.048 | 0.017 | Φ48X30 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | Unit Size (mm) | | |
| | | Al | Zn | Mn | Be | Si | Fe | Cu | Ni | | | |
| NCS HS 91711-1 | Magnesium Alloy | 3.04 | 1.21 | 0.082 | 0.0032 | 0.037 | 0.035 | 0.0096 | 0.0006 | Φ40X25 | | |
| NCS HS 91711-2 | Magnesium Alloy | 5.06 | 0.954 | 0.256 | 0.0022 | 0.100 | 0.028 | 0.085 | 0.0047 | Φ40X25 | | |
| NCS HS 91711-3 | Magnesium Alloy | 6.97 | 0.709 | 0.374 | 0.0017 | 0.183 | 0.018 | 0.151 | 0.0096 | Φ40X25 | | |
| NCS HS 91711-4 | Magnesium Alloy | 9.00 | 0.463 | 0.567 | 0.0013 | 0.285 | 0.010 | 0.222 | 0.015 | Φ40X25 | | |
| NCS HS 91711-5 | Magnesium Alloy | 10.39 | 0.201 | (0.71) | 0.0007 | 0.411 | 0.0081 | 0.307 | 0.019 | Φ40X25 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) |
| | | Cd | Se | Te | Sb | As | Sn | Cu | Bi | Zn | Ag | |
| NCS HS 45722-1 | Pb-Sb Alloy | 0.00055 | 0.0065 | 0.0056 | 0.315 | 0.0023 | 0.0022 | 0.012 | 0.0036 | 0.0004 | 0.0051 | Φ45X25 |
| NCS HS 45722-2 | Pb-Sb Alloy | 0.004 | 0.012 | 0.012 | 1.46 | 0.011 | 0.0014 | 0.057 | 0.012 | 0.0011 | 0.011 | Φ45X25 |
| NCS HS 45722-3 | Pb-Sb Alloy | 0.0061 | 0.015 | 0.045 | 3.02 | 0.022 | 0.033 | 0.085 | 0.035 | 0.00075 | 0.051 | Φ45X25 |
| NCS HS 45722-4 | Pb-Sb Alloy | 0.0082 | 0.0036 | 0.055 | 5.02 | 0.04 | 0.057 | 0.12 | 0.056 | 0.0058 | 0.21 | Φ45X25 |
| NCS HS 45722-5 | Pb-Sb Alloy | 0.02 | 0.0032 | 0.065 | 7.05 | 0.175 | 0.362 | 0.253 | 0.088 | 0.015 | 0.43 | Φ45X25 |

Section 9 Coal(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | | | |
|--|----------------------------|-------------------------------|--------------------------------|--------------------------------|------------------------|-----------------------|--------------------------------|-------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------|------------------|---------------------|--|
| | | Total Sulfur | Ash | Volatile matter | Calorific Value | Carbon | Hydrogen | Nitrogen | True Specific Gravity | Coal Type | | | | | |
| NCS FC 28001L | Coal | 0.52 | 9.80 | 24.10 | 31.70 | 78.77 | 4.33 | 1.32 | 1.32 | bitumite | 50 | | | | |
| NCS FC 28001m | Coal | 0.56 | 9.60 | 24.03 | 32.09 | 79.24 | 4.35 | 1.31 | 1.31 | bitumite | 50 | | | | |
| NCS FC 28002j | Coal | 1.61 | 23.69 | 30.22 | 23.75 | 60.00 | 3.67 | 1.07 | 1.07 | bitumite | 50 | | | | |
| NCS FC 28003f | Coal | 0.28 | 16.27 | 6.51 | 26.38 | 78.10 | 0.93 | 0.23 | 0.23 | anthracite | 50 | | | | |
| NCS FC 28003g | Coal | 0.39 | 24.38 | 5.39 | 23.93 | 70.95 | 0.76 | 0.30 | 0.30 | anthracite | 50 | | | | |
| NCS FC 28004e | Coal | 1.00 | 28.07 | 4.97 | 23.78 | 66.70 | 1.43 | 0.72 | 0.72 | anthracite | 50 | | | | |
| NCS FC 28004f | Coal | 1.13 | 13.80 | 7.02 | 29.43 | 79.13 | 2.23 | 1.13 | 1.13 | anthracite | 50 | | | | |
| NCS FC 28005e | Coal | 1.76 | 14.28 | 8.69 | 29.61 | 77.83 | 2.73 | 0.85 | 0.85 | anthracite | 50 | | | | |
| NCS FC 28006j | Coal | 0.88 | 17.44 | 30.99 | 26.88 | 66.99 | 4.07 | 1.19 | 1.19 | bitumite | 50 | | | | |
| NCS FC 28007g | Coal | 1.83 | 14.70 | 34.51 | 27.51 | 68.05 | 4.20 | 1.20 | 1.20 | bitumite | 50 | | | | |
| NCS FC 28008e | Coal | 2.78 | 15.54 | 35.09 | 28.13 | 68.22 | 4.44 | 1.22 | 1.22 | bitumite | 50 | | | | |
| NCS FC 28019f | Coal | 4.34 | 25.42 | 21.68 | 24.71 | 61.46 | 3.34 | 1.06 | 1.06 | bitumite | 50 | | | | |
| NCS FC 28010e | Coal | 1.36 | 15.75 | 33.22 | 26.80 | 66.92 | 4.09 | 1.17 | 1.17 | bitumite | 50 | | | | |
| NCS FC 28011d | Coal | 2.23 | 20.40 | 6.39 | 26.35 | 72.11 | 1.84 | 0.85 | 0.85 | anthracite | 50 | | | | |
| NCS FC 28012c | Coal | 3.07 | 19.70 | 10.77 | 27.37 | 70.39 | 2.90 | 1.10 | 1.10 | anthracite | 50 | | | | |
| NCS FC 28017a | Coal | 0.26 | 14.56 | 5.77 | 27.12 | 80.19 | 0.98 | 0.23 | 0.23 | anthracite | 50 | | | | |
| Number | Name | Chemical Composition(Percent) | | | Unit Size (in g) | | | | | | | | | | |
| | | Ts | Ash | Volatile | | | | | | | | | | | |
| NCS FC 59001 | Coke | 0.63 | 7.22 | 1.39 | 60 | | | | | | | | | | |
| NCS FC 59002 | Coke | 0.47 | 12.62 | 1.50 | 60 | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | |
| | | M _{ad} (%) | A _{ad} (%) | A _d (%) | V _{ad} (%) | V _d (%) | S _{t,ad} (%) | S _{t,d} (%) | O _{gr,ad} (MJ/kg) | Q _{gr,d} (MJ/kg) | | | | | |
| NCS FC 62001 | Bituminous Coal for Cement | 3.76 | 21.58 | 22.42 | 22.90 | 23.79 | 1.43 | 1.49 | 24.37 | 25.32 | 20 | | | | |
| NCS FC 62002 | Anthracite Coal for Cement | 3.70 | 25.18 | 26.15 | 5.81 | 6.03 | 0.21 | 0.22 | 22.36 | 23.22 | 20 | | | | |
| Number | Name | Chemical Composition(Percent) | | | | Unit Size (mm) | | | | | | | | | |
| | | As* | P | Cl | F* | | | | | | | | | | |
| NCS FC 82001 | Coal | 15 | 0.03 | 1 | | 50 | | | | | | | | | |
| NCS FC 82002 | Coal | 34 | 0.007 | | | 50 | | | | | | | | | |
| NCS FC 82003 | Coal | 51 | 0.092 | | | 50 | | | | | | | | | |
| NCS FC82004 | Coal | | | 0.010 | | 50 | | | | | | | | | |
| NCS FC 82005 | Coal | | | 0.057 | | 50 | | | | | | | | | |
| NCS FC 82006 | Coal | | | 0.110 | | 50 | | | | | | | | | |
| NCS FC 82007 | Fluorine in coal | | | | 248.00 | 50 | | | | | | | | | |
| NCS FC 82008 | Fluorine in coal | | | | 864.00 | 50 | | | | | | | | | |
| NCS FC 82009 | Fluorine in coal | | | | 1496.00 | 50 | | | | | | | | | |
| *Mass Fraction Substance(10 ⁶) | | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (in g) | | | |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | CaO | MgO | SO ₃ | TiO ₂ | K ₂ O | Na ₂ O | P ₂ O ₅ | | | | |
| NCS FC 82012 | Coal ash | 46.77 | 14.96 | 5.51 | 21.37 | 1.73 | 3.94 | 0.63 | 1.41 | 1.36 | 0.50 | 30 | | | |
| NCS FC 82014 | Coal ash | 53.98 | 31.70 | 7.80 | 1.44 | 1.08 | 0.28 | 1.17 | 1.36 | 0.22 | 0.28 | 30 | | | |
| NCS FC 82015 | Coal ash | 62.93 | 17.88 | 6.04 | 6.11 | 0.90 | 1.20 | 0.79 | 0.87 | 1.18 | 0.85 | 30 | | | |
| NCS FC 82016 | Coal ash | 50.08 | 33.78 | 4.36 | 5.50 | 0.76 | 1.25 | 1.77 | 0.87 | 0.41 | 0.18 | 30 | | | |
| NCS FC 82017 | Coal ash | 31.24 | 10.00 | 8.16 | 42.40 | 1.17 | 2.76 | 0.56 | 1.28 | 0.46 | 0.04 | 30 | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | |
| | | Q _{gr,d} (MJ/kg) | S _{t,d} | A _d | V _d | SiO ₂ | Al ₂ O ₃ | CaO | MgO | F ₂ O ₃ | TiO ₂ | Na ₂ O | K ₂ O | | |
| NCS FC 28019 | coke | 29.08 | 0.67 | 11.64 | 1.31 | 5.52 | 4.17 | 0.45 | 0.094 | 0.55 | 0.18 | 0.08 | 0.058 | 50 | |
| NCS FC 28020 | coke | 28.26 | 0.76 | 14.42 | 1.78 | 6.52 | 4.95 | 0.52 | 0.15 | 1.22 | 0.22 | 0.05 | 0.079 | 50 | |
| NCS FC 28022 | coke | 29.10 | 0.81 | 11.90 | 1.68 | 5.63 | 3.98 | 0.55 | 0.16 | 0.63 | 0.18 | 0.084 | 0.069 | 50 | |
| NCS FC 28023 | coke | 27.56 | 1.44 | 16.20 | 1.80 | 8.17 | 5.28 | 0.57 | 0.097 | 0.96 | 0.20 | 0.067 | 0.11 | 50 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | |
| | | MnO | SrO | P | Cr | Ni | Cu | V | Pb | As | Cl | | | | |
| | | NCS FC 28019 | coke | 0.0049 | 0.01 | 0.027 | 0.0015 | 0.001 | 0.0018 | 0.0027 | 0.0009 | 0.0001 | 0.024 | | |
| | | NCS FC 28020 | coke | 0.0052 | 0.017 | 0.037 | 0.0022 | 0.0008 | 0.0027 | 0.0038 | 0.0011 | 0.00014 | 0.02 | | |
| | | NCS FC 28022 | coke | 0.013 | 0.011 | 0.018 | 0.0022 | 0.0008 | 0.002 | 0.0032 | 0.0008 | 0.0002 | 0.049 | | |
| NCS FC 28023 | coke | 0.0044 | 0.0084 | 0.018 | 0.0021 | 0.001 | 0.0018 | 0.0037 | 0.0008 | 0.00024 | 0.022 | | | | |

Section 9 Coal(Powder)

| Number | Name | St. d | Ad | Vd | Chemical Composition(Percent) | | Unit Size (mm) | | | | |
|--------------|-------------------------------------|-------------------------------|---------|----------------------|-------------------------------|------------|------------------|--------------|------------------------------|------------------|------------------|
| | | | | | Qgr.d(MJ/kg) | P | | | | | |
| NCS FC 28024 | coke | 0.41 | 15.43 | 1.98 | 28.17 | 0.041 | 50 | | | | |
| NCS FC 28025 | coke | 0.62 | 11.5 | 1.31 | 29.32 | 0.021 | 50 | | | | |
| NCS FC 28026 | coke | 0.79 | 12.18 | 1.36 | 28.95 | 0.031 | 50 | | | | |
| NCS FC 28027 | coke | 0.89 | 14.83 | 1.65 | 28.12 | 0.026 | 50 | | | | |
| Number | Name | Ts | Ash | Volatile | Chemical Composition(Percent) | | Unit Size (in g) | | | | |
| NCS FC 93001 | Coke | 0.60 | 12.88 | 1.75 | | | 60 | | | | |
| NCS FC 93002 | Coke | 0.78 | 13.70 | 2.00 | | | 60 | | | | |
| NCS FC 93003 | Coke | 0.87 | 15.99 | 1.71 | | | 60 | | | | |
| NCS FC 93004 | Coke | 1.05 | 15.06 | 2.60 | | | 60 | | | | |
| NCS FC 93005 | Coke | 1.31 | 16.55 | 3.10 | | | 60 | | | | |
| NCS FC 93006 | Coke | 2.15 | 21.53 | 4.92 | | | 60 | | | | |
| Number | Name | Certified Value(HGI) | | Chemical Composition | | | | | | Unit Size (in g) | |
| NCS AG 82001 | Hadgrove Grindability Index of Coal | 34 | | | | | | | | 250 | |
| NCS AG 82002 | Hadgrove Grindability Index of Coal | 59 | | | | | | | | 250 | |
| NCS AG 82003 | Hadgrove Grindability Index of Coal | 88 | | | | | | | | 250 | |
| NCS AG 82004 | Hadgrove Grindability Index of Coal | 121 | | | | | | | | 250 | |
| Number | Name | Total Sulfur (%) | Ash (%) | Volatile (%) | Calorific (MJ/kg) | Carbon (%) | Hydrogen (%) | Nitrogen (%) | True specific Gravity(20°C) | Coal Type | Unit Size (in g) |
| NCS FC 28101 | Coal | 0.2 | 3.95 | 6.64 | 34.34 | 90.27 | 3.01 | 0.6 | 1.47 | anthracite | 50 |
| NCS FC28102 | Coal | 0.19 | 6.46 | 7.9 | 33.1 | 87.47 | 2.86 | 0.6 | 1.5 | anthracite | 50 |
| NCS FC 28103 | Coal | 0.36 | 10.51 | 9.45 | 31.8 | 81.55 | 3.33 | 1.3 | 1.47 | anthracite | 50 |
| NCS FC 28104 | Coal | 0.41 | 10.09 | 11 | 32.04 | 81.6 | 3.52 | 1.34 | 1.45 | anthracite | 50 |
| NCS FC 28105 | Coal | 1.06 | 9.61 | 12.21 | 32.31 | 81.54 | 3.7 | 1.16 | 1.43 | anthracite | 50 |
| NCS FC 28106 | Coal | 1.72 | 8.56 | 31.92 | 32.98 | 79.09 | 4.95 | 1.38 | 1.35 | bitumite | 50 |
| NCS FC 28107 | Coal | 0.67 | 10.41 | 15.3 | 31.64 | 79.89 | 3.8 | 1.12 | 1.43 | bitumite | 50 |
| NCS FC 28108 | Coal | 0.57 | 13.68 | 30.84 | 29.9 | 72.94 | 4.46 | 1.26 | 1.42 | bitumite | 50 |
| NCS FC 28109 | Coal | 0.58 | 11.98 | 11.3 | 30.66 | 79.42 | 3.28 | 1.09 | 1.49 | anthracite | 50 |
| NCS FC 28110 | Coal | 0.87 | 8.42 | 32.94 | 30.92 | 75.96 | 4.56 | 1.33 | 1.41 | bitumite | 50 |
| NCS FC 28111 | Coal | 1.28 | 25.19 | 28.39 | 24.35 | 60.24 | 3.37 | 1.04 | 1.57 | bitumite | 50 |
| NCS FC 28112 | Coal | 2.1 | 8.08 | 33.7 | 33.04 | 78.75 | 5.01 | 1.31 | 1.33 | bitumite | 50 |
| NCS FC 28113 | Coal | 0.27 | 7.06 | 33.4 | 30.03 | 74.8 | 4.47 | 1.02 | 1.41 | bitumite | 50 |
| NCS FC 28114 | Coal | 0.2 | 4.66 | 33.07 | 30.73 | 76.36 | 4.54 | 1.08 | 1.4 | bitumite | 50 |
| NCS FC 28115 | Coal | 0.42 | 6.38 | 32.22 | 31.05 | 77.44 | 4.42 | 1.21 | 1.41 | bitumite | 50 |
| NCS FC 28116 | Coal | 0.54 | 6.08 | 32.34 | 31.82 | 78.68 | 4.59 | 1.34 | 1.39 | bitumite | 50 |
| NCS FC 28117 | Coke | 0.63 | 14.83 | 1.3 | 28.28 | | | | | | 50 |
| NCS FC 28118 | Coke | 0.87 | 12.08 | 1.66 | 29.25 | | | | | | 50 |
| NCS FC 28119 | Coke | 0.81 | 14.43 | 1.34 | 28.3 | | | | | | 50 |
| NCS FC 28120 | Coke | 0.68 | 14.05 | 1.43 | 28.55 | | | | | | 50 |
| NCS FC 28121 | Coke | 0.75 | 13.29 | 1.14 | 28.76 | | | | | | 50 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) |
| | | Si | Al | Fe | Ca | Mg | P | K | Na | Ti | |
| NCS FC 28122 | Inorganic elements in Coal | 0.47 | 0.25 | 1.79 | 0.85 | 0.24 | 0.0029 | 0.016 | 0.081 | 0.01 | 50 |
| NCS FC 28123 | Inorganic elements in Coal | 1.86 | 1.88 | 0.35 | 0.74 | 0.081 | 0.066 | 0.026 | 0.11 | 0.096 | 50 |
| NCS FC 28124 | Inorganic elements in Coal | 1.77 | 1.75 | 0.34 | 0.79 | 0.071 | 0.044 | 0.02 | 0.13 | 0.079 | 50 |
| NCS FC 28125 | Inorganic elements in Coal | 2.69 | 2.27 | 0.24 | 0.28 | 0.05 | 0.013 | 0.09 | 0.048 | 0.09 | 50 |
| NCS FC 28126 | Inorganic elements in Coal | 1.01 | 0.83 | 0.32 | 0.65 | 0.06 | 0.019 | 0.01 | 0.034 | 0.046 | 50 |
| NCS FC 28127 | Inorganic elements in Coal | 5.61 | 3.47 | 1.02 | 1.88 | 0.28 | 0.01 | 0.29 | 0.052 | 0.018 | 50 |
| NCS FC 28128 | Inorganic elements in Coal | 1.64 | 1.22 | 0.86 | 0.19 | 0.059 | 0.0044 | 0.043 | 0.026 | 0.059 | 50 |

Section 9 Coal(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | |
|--------------|----------------------------|-------------------------------|--------------------------------|--------------------------------|-----------|--------|-------------------------------|------------------|-------------------|------------------|-------------------------------|---------------------|---------------------|
| | | V | Mn | Cu | Co | Ni | Zn | Cr | Cd | Pb | | | |
| NCS FC 28122 | Inorganic elements in Coal | 0.0001 | 0.022 | 0.0002 | 0.0008 | 0.0008 | | 0.0002 | <0.0001 | 0.0002 | 50 | | |
| NCS FC 28123 | Inorganic elements in Coal | 0.0012 | 0.003 | 0.0012 | 0.0004 | 0.0008 | (0.001) | 0.001 | <0.0001 | 0.0016 | 50 | | |
| NCS FC 28124 | Inorganic elements in Coal | 0.0011 | 0.0016 | 0.0012 | 0.0004 | 0.0008 | | 0.0007 | <0.0001 | 0.0016 | 50 | | |
| NCS FC 28125 | Inorganic elements in Coal | 0.0033 | 0.0009 | 0.0017 | 0.0011 | 0.0018 | | 0.0005 | <0.0001 | 0.0016 | 50 | | |
| NCS FC 28126 | Inorganic elements in Coal | 0.0011 | 0.008 | 0.0008 | 0.0003 | 0.0005 | | 0.0005 | 0.0002 | | 50 | | |
| NCS FC 28127 | Inorganic elements in Coal | 0.006 | 0.019 | 0.0023 | 0.0009 | 0.0016 | 0.004 | 0.0023 | | | 50 | | |
| NCS FC 28128 | Inorganic elements in Coal | 0.0028 | 0.0026 | 0.0012 | 0.0004 | 0.0008 | <0.001 | 0.0008 | | | 50 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | |
| | | Si | Al | Fe | Ca | Mg | P | K | Na | Ti | | | |
| NCS FC 28129 | Element in coke | 2.97 | 2.35 | 0.75 | 0.6 | 0.11 | 0.02 | 0.093 | 0.13 | 0.12 | 50 | | |
| NCS FC 28130 | Element in coke | 2.35 | 1.96 | 0.63 | 0.52 | 0.11 | 0.022 | 0.061 | 0.063 | 0.099 | 50 | | |
| NCS FC 28131 | Element in coke | 3.22 | 2.72 | 0.51 | 0.29 | 0.046 | 0.015 | 0.094 | 0.05 | 0.12 | 50 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | Unit Size (in g) | | |
| | | V | Mn | Cu | Co | Ni | Zn | Cr | Cd | Pb | | | |
| NCS FC 28129 | Element in coke | 0.0041 | 0.021 | 0.0021 | 0.0007 | 0.0015 | 0.0011 | 0.0015 | | 0.0014 | | | |
| NCS FC 28130 | Element in coke | 0.0034 | 0.015 | 0.0017 | 0.0006 | 0.0012 | 0.0011 | 0.0012 | <0.0000 | | | | |
| NCS FC 28131 | Element in coke | 0.0027 | 0.008 | 0.0016 | 0.0007 | 0.0013 | 0.0018 | 0.0011 | <0.0001 | | | | |
| Number | Name | Total Sulfur | Ash | Volatiles | Calorific | P | | | | | | Unit Size (in g) | |
| | | (%) | (%) | (%) | (MJ/kg) | (%) | | | | | | | |
| NCS FC 28132 | coke | 0.50 | 11.39 | 2.80 | 30.23 | 0.016 | | | | | | 50 | |
| NCS FC 28133 | coke | 1.00 | 12.30 | 1.79 | 29.18 | 0.024 | | | | | | 50 | |
| NCS FC 28134 | coke | 1.19 | 12.70 | 1.95 | 29.04 | 0.024 | | | | | | 50 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | CaO | MgO | P ₂ O ₅ | K ₂ O | Na ₂ O | TiO ₂ | V ₂ O ₅ | MnO | |
| NCS FC 28135 | Ash of Coke | 42.87 | 29.95 | 7.23 | 5.67 | 1.25 | 0.31 | 1.51 | 2.36 | 1.44 | 0.049 | 0.18 | 5 |
| NCS FC 28136 | Ash of Coke | 41.61 | 30.666 | 7.51 | 6 | 1.5 | 0.41 | 1.22 | 1.36 | 1.41 | 0.05 | 0.16 | 5 |
| NCS FC 28137 | Ash of Coke | 47.81 | 35.62 | 5.02 | 2.82 | 0.53 | 0.24 | 1.57 | 0.94 | 1.41 | 0.033 | 0.07 | 5 |
| Number | Name | Total Sulfur | Ash | Volatiles | Calorific | Carbon | Hydrogen | Nitrogen | TRUE Specific | Coal Type | Unit Size (in g) | | |
| | | (%) | (%) | (%) | (MJ/kg) | (%) | (%) | (%) | Gravity(20°C)" | | | | |
| NCS FC 28138 | Coal | 1.42 | 44.23 | 11.11 | 18.59 | 47.12 | 2.48 | 0.75 | 1.79 | anthracite | 50 | | |
| NCS FC 28139 | Coal | 1.34 | 22.8 | 18.09 | 27.27 | 67.41 | 3.68 | 1.05 | 1.51 | bitumite | 50 | | |
| NCS FC 28140 | Coal | 1.29 | 25.88 | 30.31 | 22.71 | 58.12 | 3.4 | 1.04 | 1.62 | bitumite | 50 | | |
| NCS FC 28141 | Coal | 3.04 | 29.13 | 9.99 | 23.72 | 60.53 | 2.73 | 0.86 | 1.68 | anthracite | 50 | | |
| NCS FC 28142 | Coal | 4.54 | 34.45 | 12.38 | 22.18 | 55.14 | 2.79 | 0.85 | 1.71 | bitumite | 50 | | |
| NCS FC 28143 | Coal | 6.62 | 33.01 | 11.1 | 21.92 | 54.74 | 2.53 | 0.76 | 1.78 | anthracite | 50 | | |
| NCS FC 28144 | Coal | 1.56 | 73.37 | 9.44 | 6.77 | 18.01 | 1.45 | 0.28 | 2.29 | coal waste rock | 50 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | CaO | MgO | P ₂ O ₅ | K ₂ O | Na ₂ O | TiO ₂ | V ₂ O ₅ | MnO | |
| NCS FC 28145 | Coal ash | 15.66 | 7.34 | 39.61 | 18.37 | 6.05 | 0.1 | 0.6 | 3.37 | 0.26 | 0.0042 | 0.44 | 5 |
| NCS FC 28146 | Coal ash | 37.86 | 33.71 | 4.74 | 9.9 | 1.27 | 1.44 | 0.6 | 2.9 | 1.56 | 0.02 | 0.037 | 5 |
| NCS FC 28147 | Coal ash | 37.52 | 32.78 | 4.81 | 10.97 | 1.17 | 1 | 0.48 | 3.5 | 1.34 | 0.019 | 0.02 | 5 |
| NCS FC 28148 | Coal ash | 48.03 | 35.8 | 2.81 | 3.27 | 0.69 | 0.25 | 1.81 | 1.08 | 1.29 | 0.049 | 0.0073 | 5 |
| NCS FC 28149 | Coal ash | 35.54 | 25.92 | 7.56 | 14.92 | 1.63 | 0.72 | 0.39 | 1.51 | 1.3 | 0.032 | 0.017 | 5 |
| NCS FC 28150 | Coal ash | 47.64 | 26.03 | 5.79 | 10.44 | 1.87 | 0.091 | 2.81 | 0.56 | 1.24 | 0.042 | 0.097 | 5 |
| NCS FC 28151 | Coal ash | 43.42 | 28.53 | 15.18 | 3.33 | 1.21 | 0.12 | 1.29 | 0.87 | 1.25 | 0.062 | 0.042 | 5 |

Section 9 Coal(Powder)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | |
|---------------|----------------------------|-------------------------------|--------------------------------|--------------------------------|-----------------------|--------------------------|-------------------------------|---------------------|-------------------|------------------|-------------------------------|-------|---------------------|---|
| | | Si | Al | Fe | Ca | Mg | P | K | Na | V | Mn | Ti | | |
| NCS FC 28152 | Element of Coal waste rock | 20.59 | 10.76 | 2.57 | 0.34 | 0.53 | 0.026 | 1.27 | 0.15 | 0.012 | 0.023 | 0.44 | 50 | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | CaO | MgO | P ₂ O ₅ | K ₂ O | Na ₂ O | TiO ₂ | V ₂ O ₅ | MnO | | |
| NCS FC 28153 | Ash of Coal waste rock | 60.03 | 27.71 | 5.01 | 0.65 | 1.2 | 0.082 | 4.18 | 0.53 | 1.04 | 0.028 | 0.041 | 5 | |
| Number | Name | Chemical Composition(Percent) | | | | | Coal Type | Unit Size (in g) | | | | | | |
| | | St.d | Ad | Vd | Qgr,d(MJ/kg) | | | | | | | | | |
| NCS FC 28201 | Coal | 0.47 | 10.45 | 17.7 | 31.57 | bitumite | 50 | | | | | | | |
| NCS FC 28202 | Coal | 1.05 | 8.65 | 33.36 | 30.77 | bitumite | 50 | | | | | | | |
| NCS FC 28203 | Coal | 0.71 | 10.36 | 20.69 | 31.66 | bitumite | 50 | | | | | | | |
| NCS FC 28204 | Coal | 0.96 | 8.09 | 34.25 | 31.34 | bitumite | 50 | | | | | | | |
| NCS FC 28205 | Coal | 0.31 | 14.49 | 11.39 | 29.98 | anthracite | 50 | | | | | | | |
| NCS FC 28206 | Coal | 0.86 | 14.42 | 28.56 | 26.73 | bitumite | 50 | | | | | | | |
| NCS FC 28207 | Coal | 0.43 | 16.26 | 7.26 | 26.1 | anthracite | 50 | | | | | | | |
| NCS FC 28208 | Coal | 1.03 | 15.48 | 20.57 | 29.19 | bitumite | 50 | | | | | | | |
| NCS FC 28209 | Coal | 1.76 | 27.33 | 8.21 | 23.96 | anthracite | 50 | | | | | | | |
| NCS FC 28210 | Coal | 3.17 | 25.9 | 8.40 | 24.47 | anthracite | 50 | | | | | | | |
| NCS FC 28211 | Coal | 0.88 | 13.41 | 9.08 | 30.23 | anthracite | 50 | | | | | | | |
| NCS FC 28212 | Coal | 0.53 | 8.52 | 25.65 | 30.94 | bitumite | 50 | | | | | | | |
| NCS FC 28213 | Coal | 1.49 | 9.88 | 36.2 | 30.76 | bitumite | 50 | | | | | | | |
| NCS FC 28214 | Coal | 1.66 | 27.85 | 29.21 | 23.63 | bitumite | 50 | | | | | | | |
| NCS FC 28215 | Coal | 2.17 | 25.2 | 28.79 | 24.83 | bitumite | 50 | | | | | | | |
| NCS FC 28216 | Coal | 2.79 | 8.7 | 10.78 | 32.34 | anthracite | 50 | | | | | | | |
| NCS FC 28217 | Coal | 1.79 | 8.68 | 36.06 | 31.33 | bitumite | 50 | | | | | | | |
| NCS FC 28218 | Coal | 1.35 | 14.58 | 6.16 | 29.26 | anthracite | 50 | | | | | | | |
| NCS FC 28219 | Coal | 0.28 | 6.1 | 31.24 | 30.09 | bitumite | 50 | | | | | | | |
| NCS FC 28220 | Coal | 4.03 | 16.52 | 11.15 | 28.67 | anthracite | 50 | | | | | | | |
| NCS FC 28221 | Coal | 4.04 | 18.98 | 32 | 27.79 | bitumite | 50 | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | Unit Size (in g) | |
| | | SiO ₂ | Al ₂ O ₃ | Fe ₂ O ₃ | CaO | MgO | P ₂ O ₅ | K ₂ O | Na ₂ O | TiO ₂ | V ₂ O ₅ | MnO | SO ₃ | |
| NCS FC 28154 | Ash of Coal | 53.17 | 32.02 | 6.47 | 2.28 | 0.9 | 0.19 | 1.37 | 0.41 | 1.34 | 0.027 | 0.035 | 0.78 | 5 |
| Number | Name | Fusibility(°C) | | Deformation temperature | Softening temperature | Hemisphering temperature | Fluid temperature | Unit size | | | | | | |
| | | Atmosphere | | | | | | | | | | | | |
| NCS FS28001 | Fusibility of Coal Ash | Mildly reducing atmosphere | Certified Value | 1161 | 1190 | 1198 | 1204 | 5g | | | | | | |
| | | Oxidizing atmosphere | Certified Value | 1211 | 1230 | 1239 | 1252 | | | | | | | |
| NCS FS28002 | Fusibility of Coal Ash | Mildly reducing atmosphere | Certified Value | 1217 | 1340 | 1357 | 1369 | | | | | | | |
| | | Oxidizing atmosphere | Certified Value | 1356 | 1408 | 1420 | 1445 | | | | | | | |
| NCS FS28003 | Fusibility of Coal Ash | Mildly reducing atmosphere | Certified Value | 1285 | 1314 | 1322 | 1340 | | | | | | | |
| | | Oxidizing atmosphere | Certified Value | 1314 | 1345 | 1360 | 1381 | | | | | | | |
| Number | Name | Fusibility(°C) | | Deformation temperature | Softening temperature | Hemisphering temperature | Fluid temperature | Unit size | | | | | | |
| | | Atmosphere | | | | | | | | | | | | |
| NCS FS 91001c | Fusibility of coal ash | Mildly reducing atmosphere | Certified Value | 1147 | 1219 | 1251 | 1305 | 30g | | | | | | |
| | | Oxidizing atmosphere | Certified Value | 1321 | 1345 | 1358 | 1376 | | | | | | | |
| | | Strong reducing atmosphere | Certified Value | 1376 | 1407 | 1427 | 1464 | | | | | | | |

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| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | | Unit Size (in g) |
|--------------|------|----------------------------|-------------------|--------|-------|------|------|--------------------|----------------------------------|-----------------------------------|-------|------|-------|--------------------|-------------------|---------------------|
| | | Ag | AS | B | Ba | Be | Bi | Br | Cd | Ce | Cl | Co | Cr | Cs | Cu | |
| NCS ZC 73003 | Soil | 0.078 | 12.2 | 55 | 492 | 2.04 | 0.30 | 2.1 | 0.15 | 57 | (50) | 12.6 | 59 | 7.2 | 29 | 70 |
| NCS ZC 73005 | Soil | 0.084 | 6.5 | 46 | 608 | 2.44 | 0.35 | 1.7 | 0.20 | 80 | 50 | 14.6 | 70 | 7.0 | 27.4 | 70 |
| | | Dy | Er | Eu | F | Ga | Gd | Ge | Hf | Hg | Ho | I | In | La | Li | |
| NCS ZC 73003 | Soil | 4.9 | 2.9 | 1.22 | 592 | 16.8 | 5.1 | 1.3 | 5.5 | 0.021 | 1.01 | 1.4 | 0.058 | 29 | 36 | |
| NCS ZC 73005 | Soil | 4.8 | 2.6 | 1.36 | 619 | 18.8 | 5.5 | 1.42 | 6.4 | 0.089 | 0.93 | 0.9 | 0.057 | 41 | 39 | |
| | | Lu | Mn | Mo | N* | Nb | Nd | Ni | P | Pb | Pr | Rb | S | Sb(DA) | | |
| NCS ZC 73003 | Soil | 0.46 | 774 | 0.96 | 0.055 | 12 | 27.9 | 32 | 708 | 19 | 7.0 | 94 | 154 | 1.05 | | |
| NCS ZC 73005 | Soil | 0.42 | 688 | 0.65 | 0.081 | 14.4 | 36 | 33 | 730 | 31 | 9.2 | 108 | 173 | 0.73 | | |
| | | Sb(T) | Sc | Se | Sm | Sn | Sr | Ta | Tb | Th | Ti* | Ti | Tm | U | | |
| NCS ZC 73003 | Soil | (0.17) | 12.6 | 0.16 | 5.6 | 2.8 | 240 | 0.85 | 0.84 | 10 | 0.392 | 0.51 | 0.44 | 2.4 | | |
| NCS ZC 73005 | Soil | (0.81) | 11.7 | 0.16 | 6.4 | 3.1 | 152 | 1.08 | 0.87 | 12.7 | 0.406 | 0.63 | 0.41 | 2.45 | | |
| | | V | W | Y | Yb | Zn | Zr | SiO ₂ * | Al ₂ O ₃ * | TFe ₂ O ₃ * | FeO* | MgO* | CaO* | Na ₂ O* | K ₂ O* | |
| NCS ZC 73003 | Soil | 86 | 1.64 | 26.4 | 2.9 | 78 | 195 | 60.0 | 13.27 | 4.71 | 1.39 | 2.43 | 5.83 | 2.00 | 2.62 | |
| NCS ZC 73005 | Soil | 86 | 1.5 | 25 | 2.53 | 96 | 227 | 64.5 | 14.4 | 5.32 | (0.8) | 1.90 | 2.45 | 1.59 | 2.46 | |
| | | H ₂ O* | CO ₂ * | Corg* | | | | | | | | | | | | |
| NCS ZC 73003 | Soil | (3.6) | 3.9 | (0.47) | | | | | | | | | | | | |
| NCS ZC 73005 | Soil | (4.0) | (1.1) | 0.79 | | | | | | | | | | | | |

* Chemical Composition (%)

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| Number | Name | Chemical Composition | | | | | | | Unit Size (in g) | |
|--------------|----------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------|-----------------|
| | | Al(10^{-2}) | As(10^{-5}) | B(10^{-5}) | Ba(10^{-6}) | Be(10^{-9}) | Bi(10^{-9}) | Br(10^{-6}) | | |
| NCS ZC 73009 | Wheat | 0.0104 | 0.031 | (0.55) | 2.4 | (0.85) | (2.5) | (0.33) | 35 | |
| NCS ZC 73010 | Mealie | 0.032 | 0.028 | 0.86 | 0.45 | 1.7 | 2.8 | 0.46 | 35 | |
| NCS ZC 73011 | Soy bean | (0.043) | 0.035 | 15.8 | 3.3 | 3.5 | (2) | (0.6) | 35 | |
| | | Ca(10^{-2}) | Cd(10^{-9}) | Ce(10^{-6}) | Cl(10^{-2}) | Co(10^{-6}) | Cr(10^{-6}) | Cs(10^{-6}) | Cu(10^{-6}) | Dy(10^{-9}) |
| NCS ZC 73009 | Wheat | 0.034 | 18 | 0.009 | 0.086 | (0.008) | 0.096 | (0.010) | 2.7 | (0.8) |
| NCS ZC 73010 | Mealie | 0.0055 | 4.1 | 0.12 | 0.05 | (0.012) | (0.11) | 0.01 | 0.66 | 3.2 |
| NCS ZC 73011 | Soy bean | 0.153 | (11) | 0.04 | 0.008 | 0.125 | 0.28 | 0.043 | 102 | 2.4 |
| | | Er(10^{-9}) | Er(10^{-9}) | Fe(10^{-6}) | Gd(10^{-9}) | Ge(10^{-9}) | Hf(10^{-6}) | Hg(10^{-9}) | Ho(10^{-9}) | I(10^{-6}) |
| NCS ZC 73009 | Wheat | (0.31) | (0.8) | 18.5 | (0.91) | (2) | (0.03) | (1.6) | (0.12) | (0.06) |
| NCS ZC 73010 | Mealie | 1.7 | (0.6) | 13.3 | 4.3 | (1) | | (1.6) | 0.66 | (0.06) |
| NCS ZC 73011 | Soy bean | 1 | 1.3 | 139 | 3.3 | (2.5) | | (1.5) | (0.5) | (0.05) |
| | | K(10^{-2}) | La(10^{-6}) | Li(10^{-6}) | Lu(10^{-9}) | Mg(10^{-2}) | Mn(10^{-6}) | Mo(10^{-6}) | N(10^{-2}) | Na(10^{-6}) |
| NCS ZC 73009 | Wheat | 0.14 | 0.006 | 0.024 | (0.04) | 0.045 | 5.4 | 0.48 | 2.4 | 17 |
| NCS ZC 73010 | Mealie | 0.129 | 0.057 | 0.038 | (0.21) | 0.018 | 1.55 | 0.045 | 1.4 | (10) |
| NCS ZC 73011 | Soy bean | 1.86 | 0.023 | 0.062 | (0.13) | 0.23 | 28 | 0.71 | 6.7 | (15) |
| | | Nb(10^{-6}) | Nd(10^{-6}) | Ni(10^{-6}) | P(10^{-2}) | Pb(10^{-6}) | Pr(10^{-9}) | Rb(10^{-6}) | S(10^{-2}) | Sb(10^{-6}) |
| NCS ZC 73009 | Wheat | (0.008) | 0.0046 | 0.06 | 0.154 | 0.065 | 1.1 | 2.6 | 0.178 | (0.006) |
| NCS ZC 73010 | Mealie | (0.009) | 0.022 | 0.097 | 0.061 | 0.07 | 7 | 2.1 | 0.123 | (0.008) |
| NCS ZC 73011 | Soy bean | (0.011) | 0.016 | 4 | 0.66 | 0.07 | 4.5 | 14.2 | 0.364 | (0.005) |
| | | Sc(10^{-9}) | Se(10^{-6}) | Si(10^{-2}) | Sm(10^{-9}) | Sr(10^{-6}) | Tb(10^{-9}) | Th(10^{-9}) | Ti(10^{-6}) | Tl(10^{-9}) |
| NCS ZC 73009 | Wheat | (3) | 0.053 | (0.008) | 0.95 | 2.5 | (0.10) | (2) | (2) | (0.5) |
| NCS ZC 73010 | Mealie | 3.5 | 0.021 | 0.0008 | 3.2 | 0.19 | 0.73 | 4.6 | 1.6 | (0.4) |
| NCS ZC 73011 | Soy bean | (6.6) | (0.022) | (0.013) | 3.1 | 9.9 | (0.42) | 6.8 | | (2.3) |
| | | Tm(10^{-9}) | U(10^{-9}) | V(10^{-6}) | Y(10^{-6}) | Yb(10^{-9}) | Zn(10^{-6}) | Ash(%) | | |
| NCS ZC 73009 | Wheat | (0.04) | (1.6) | 0.034 | 0.023 | (0.34) | 11.6 | (1.0) | | |
| NCS ZC 73010 | Mealie | (0.27) | (2.3) | 0.3 | 0.021 | 1.6 | 2.9 | (0.5) | | |
| NCS ZC 73011 | Soy bean | (0.2) | (2.5) | (0.08) | 0.022 | 1.2 | 38 | (5.1) | | |

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| Number | Name | Chemical Composition | | | | | | | | Unit Size (in g) |
|--------------|---------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------|
| | | Al(10^{-2}) | As(10^{-5}) | B(10^{-5}) | Ba(10^{-6}) | Be(10^{-5}) | Bi(10^{-5}) | Br(10^{-6}) | | |
| NCS ZC 73016 | Chicken | 0.016 | 0.109 | 0.76 | 1.5 | (1.3) | 1.3 | 1.6 | | 35 |
| NCS ZC 73017 | Apple | 0.007 | 0.02 | 19 | 2.5 | (1.0) | (2.5) | (0.2) | | 35 |
| | | Ca(10^{-2}) | Cd(10^{-9}) | Ce(10^{-6}) | Cl(10^{-2}) | Co(10^{-5}) | Cr(10^{-5}) | Cs(10^{-6}) | Cu(10^{-6}) | Dy(10^{-9}) |
| NCS ZC 73016 | Chicken | 0.022 | (5) | 0.06 | 0.153 | (0.010) | 0.59 | 0.07 | 1.46 | 1.1 |
| NCS ZC 73017 | Apple | 0.049 | 5.8 | 0.025 | (0.0080) | 0.026 | 0.3 | (0.02) | 2.5 | (1.1) |
| | | Er(10^{-9}) | Er(10^{-9}) | Fe(10^{-6}) | Gd(10^{-9}) | Ge(10^{-9}) | Hf(10^{-6}) | Hg(10^{-9}) | Ho(10^{-6}) | I(10^{-6}) |
| NCS ZC 73016 | Chicken | (0.8) | (0.7) | 31 | (1.4) | (2) | | 3.6 | (0.26) | (0.08) |
| NCS ZC 73017 | Apple | (0.65) | (0.7) | 16 | 0.95 | | | (2) | (0.25) | 0.12 |
| | | K(10^{-2}) | La(10^{-6}) | Li(10^{-6}) | Lu(10^{-9}) | Mg(10^{-2}) | Mn(10^{-6}) | Mo(10^{-6}) | N(10^{-2}) | Na(10^{-6}) |
| NCS ZC 73016 | Chicken | 1.46 | 0.024 | 0.034 | (0.10) | 0.128 | 1.65 | 0.11 | 14.8 | 0.144 |
| NCS ZC 73017 | Apple | 0.77 | 0.014 | 0.115 | | 0.039 | 2.7 | 0.08 | 0.31 | 0.116 |
| | | Nb(10^{-6}) | Nd(10^{-6}) | Ni(10^{-6}) | P(10^{-2}) | Pb(10^{-6}) | Pr(10^{-9}) | Rb(10^{-6}) | S(10^{-2}) | Sb(10^{-6}) |
| NCS ZC 73016 | Chicken | (0.006) | 0.0095 | 0.15 | 0.96 | 0.11 | 2.8 | 33 | 0.86 | |
| NCS ZC 73017 | Apple | | (0.006) | 0.14 | 0.066 | 0.084 | 1.8 | 5 | 0.063 | (0.006) |
| | | Sc(10^{-9}) | Se(10^{-6}) | Si(10^{-2}) | Sm(10^{-9}) | Sr(10^{-6}) | Tb(10^{-9}) | Th(10^{-9}) | Ti(10^{-6}) | Tl(10^{-9}) |
| NCS ZC 73016 | Chicken | (4.5) | 0.49 | (0.013) | 1.3 | 0.64 | (0.23) | (4.5) | | (14) |
| NCS ZC 73017 | Apple | | (0.018) | 0.005 | 1.5 | 6.9 | | 4 | | (1.8) |
| | | Tm(10^{-9}) | U(10^{-9}) | V(10^{-6}) | Y(10^{-6}) | Yb(10^{-9}) | Zn(10^{-6}) | Ash(%) | | |
| NCS ZC 73016 | Chicken | (0.11) | (3) | (0.06) | 0.007 | (0.7) | 26 | (5.0) | | |
| NCS ZC 73017 | Apple | (0.12) | 8.2 | (0.028) | 0.008 | (0.66) | 2.1 | (2.4) | | |

Section 10 Environmental

| Number | Name | Chemical Composition | | | | | | | | Unit Size (in g) | |
|--------------|--------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|
| | | Ag(10 ⁻³) | Al(10 ⁻²) | As(10 ⁻⁶) | B(10 ⁻⁶) | Ba(10 ⁻⁶) | Be(10 ⁻³) | Bi(10 ⁻³) | | | |
| NCS ZC 73018 | Citrus leaves | 54 | 0.115 | 1.1 | 32 | 98 | 31 | 230 | | | 35 |
| NCS ZC 73019 | Fresh Kidney beans | (5) | 0.043 | 0.15 | 21 | 11.4 | 14 | 4.8 | | | 35 |
| NCS ZC 73020 | Garlic | (5) | 0.021 | 0.31 | 7.5 | 4.1 | 4.4 | 13 | | | 35 |
| NCS ZC 73021 | Laver | 73 | 0.49 | 27 | 14.5 | 10.4 | 115 | 31 | | | 35 |
| NCS ZC 73022 | Scallop | (8) | 0.0156 | 3.6 | 12 | 0.62 | 3.2 | 3.8 | | | 12 |
| | | Br(10 ⁻⁶) | Ca(10 ⁻²) | Cd(10 ⁻⁶) | Ce(10 ⁻⁶) | Cl(10 ⁻²) | Co(10 ⁻⁶) | Cr(10 ⁻⁶) | Cs(10 ⁻⁶) | Cu(10 ⁻⁶) | |
| NCS ZC 73018 | Citrus leaves | 3.4 | 4.2 | 0.17 | 1 | 0.032 | 0.23 | 1.25 | 0.14 | 6.6 | |
| NCS ZC 73019 | Fresh Kidney beans | 0.62 | 0.67 | (0.020) | 0.35 | 0.14 | 0.29 | 0.66 | 0.036 | 8.7 | |
| NCS ZC 73020 | Garlic | 1.9 | 0.081 | 0.062 | 0.16 | 0.075 | 0.056 | 0.3 | 0.025 | 4.6 | |
| NCS ZC 73021 | Laver | 92 | 0.153 | 0.57 | 4.7 | 2.8 | 0.63 | 2.4 | 0.35 | 12.2 | |
| NCS ZC 73022 | Scallop | 32 | 0.075 | 1.06 | 0.053 | 0.81 | 0.047 | 0.28 | 0.014 | 1.34 | |
| | | Dy(10 ⁻⁹) | Er(10 ⁻⁹) | Eu(10 ⁻⁹) | F(10 ⁻⁶) | Fe(10 ⁻⁶) | Gd(10 ⁻⁹) | Ge(10 ⁻⁹) | Hf(10 ⁻⁶) | Hg(10 ⁻⁹) | |
| NCS ZC 73018 | Citrus leaves | 57 | 26 | (33) | (38) | 480 | 81 | (26) | (0.085) | 150 | |
| NCS ZC 73019 | Fresh Kidney beans | 23 | 12 | 7.2 | (15) | 330 | 28 | 14 | | 3.8 | |
| NCS ZC 73020 | Garlic | 8.9 | 4.2 | 3.2 | (35) | 205 | 11.4 | (12) | (0.04) | 4 | |
| NCS ZC 73021 | Laver | 654 | 312 | 126 | (27) | 0.145 | 760 | 52 | | 16 | |
| NCS ZC 73022 | Scallop | 5.3 | 3.3 | 0.9 | (13) | 41 | 5.2 | (8) | | 40 | |
| | | Ho(10 ⁻⁹) | I(10 ⁻⁶) | K(10 ⁻²) | La(10 ⁻⁶) | Li(10 ⁻⁶) | Lu(10 ⁻⁹) | Mg(10 ⁻²) | Mn(10 ⁻⁶) | Mo(10 ⁻⁶) | |
| NCS ZC 73018 | Citrus leaves | 11 | 0.53 | 0.77 | 0.57 | 1 | 3.7 | 0.234 | 30.5 | 0.2 | |
| NCS ZC 73019 | Fresh Kidney beans | 4.5 | (0.14) | 2.26 | 0.17 | 0.31 | 1.77 | 0.336 | 29.5 | 4.9 | |
| NCS ZC 73020 | Garlic | 1.6 | 0.57 | 1.14 | 0.092 | 0.13 | 0.58 | 0.105 | 13.4 | 0.21 | |
| NCS ZC 73021 | Laver | 126 | 79 | 3.36 | 3.4 | 2.36 | 38 | 0.4 | 68 | 0.78 | |
| NCS ZC 73022 | Scallop | 1.2 | 1.83 | 1.15 | 0.037 | 0.13 | 0.49 | 0.174 | 19.2 | 0.066 | |
| | | N(10 ⁻²) | Na(10 ⁻²) | Nd(10 ⁻⁶) | Ni(10 ⁻⁶) | P(10 ⁻²) | Pb(10 ⁻⁶) | Pr(10 ⁻⁹) | Rb(10 ⁻⁶) | S(10 ⁻²) | |
| NCS ZC 73018 | Citrus leaves | 2.47 | 0.013 | 0.42 | (1.1) | 0.125 | 9.7 | 108 | 3 | 0.41 | |
| NCS ZC 73019 | Fresh Kidney beans | 2.79 | 0.081 | 0.14 | 4.4 | 0.38 | 0.66 | 38 | 9.5 | 0.195 | |
| NCS ZC 73020 | Garlic | 3.22 | 0.095 | 0.066 | 0.92 | 0.466 | 0.72 | 17 | 6.5 | 1.01 | |
| NCS ZC 73021 | Laver | 5 | 1.55 | 3.1 | 2.25 | 0.585 | 2.05 | 800 | 10.4 | 2.26 | |
| NCS ZC 73022 | Scallop | 12.8 | 0.46 | 0.025 | 0.29 | 0.88 | (0.12) | 6 | 5.1 | 1.5 | |
| | | Sb(10 ⁻⁶) | Sc(10 ⁻⁶) | Se(10 ⁻⁶) | Si(10 ⁻²) | Sm(10 ⁻⁹) | Sn(10 ⁻⁶) | Sr(10 ⁻⁶) | Tb(10 ⁻⁹) | Th(10 ⁻⁶) | |
| NCS ZC 73018 | Citrus leaves | 0.2 | 0.14 | 0.17 | 0.41 | 80 | 3.8 | 170 | 11.1 | 0.14 | |
| NCS ZC 73019 | Fresh Kidney beans | 0.028 | 0.067 | 0.043 | (0.27) | 29 | (0.2) | 55 | 4.1 | 0.055 | |
| NCS ZC 73020 | Garlic | 0.023 | 0.021 | 0.39 | (0.08) | 13 | (0.07) | 12.3 | 1.66 | 0.024 | |
| NCS ZC 73021 | Laver | 0.026 | (0.049) | 0.124 | 0.83 | 81 | (0.2) | 24 | 110 | 0.73 | |
| NCS ZC 73022 | Scallop | (0.014) | (0.012) | 1.5 | (0.013) | 4.8 | (0.13) | 6.5 | 0.84 | (0.012) | |
| | | Ti(10 ⁻⁶) | Tl(10 ⁻⁶) | Tm(10 ⁻⁹) | U(10 ⁻⁹) | V(10 ⁻⁶) | Y(10 ⁻⁶) | Yb(10 ⁻⁹) | Zn(10 ⁻⁶) | Ash(%) | |
| NCS ZC 73018 | Citrus leaves | 38 | 60 | 3.8 | 45 | 1.16 | 0.42 | 25 | 18 | (13.3) | |
| NCS ZC 73019 | Fresh Kidney beans | 21 | 4.2 | 1.8 | 90 | 0.51 | 0.155 | 11 | 32 | (6.9) | |
| NCS ZC 73020 | Garlic | 10 | 20 | (0.65) | 75 | 0.2 | 0.057 | (4.2) | 21.7 | (3.4) | |
| NCS ZC 73021 | Laver | (92) | 44 | 43 | 172 | 4.2 | 6.6 | 253 | 28 | (15.1) | |
| NCS ZC 73022 | Scallop | (6) | 2.5 | 0.52 | 7.3 | 0.36 | 0.107 | 3.2 | 75 | (4.5) | |

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| Number | Name | Chemical Composition | | | | | | | | Unit Size (in g) | |
|--------------|------------|----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|
| | | Ag(10 ⁻³) | Al(10 ⁻²) | As(10 ⁻⁶) | B(10 ⁻⁶) | Ba(10 ⁻⁶) | Be(10 ⁻³) | Bi(10 ⁻³) | | | |
| NCS ZC 73023 | Spirulina | 42 | 0.033 | 0.22 | (2.8) | 11 | 21 | 81 | | 12 | |
| NCS ZC 73024 | Pollen | (5.8) | (0.045) | 0.095 | 85 | 2.9 | 10 | 4.4 | | 12 | |
| NCS ZC 73025 | Ginseng | (4) | (0.036) | (0.03) | 10.5 | 35 | 5.3 | (2.4) | | 12 | |
| NCS ZC 73026 | Huang-qi | (8) | 0.18 | 0.57 | 16.8 | 20.5 | 50 | 14 | | 35 | |
| | | Br(10 ⁻⁶) | Ca(10 ⁻²) | Cd(10 ⁻⁶) | Ce(10 ⁻⁶) | Cl(10 ⁻²) | Co(10 ⁻⁶) | Cr(10 ⁻⁶) | Cs(10 ⁻⁶) | Cu(10 ⁻⁶) | |
| NCS ZC 73023 | Spirulina | 4.8 | 0.158 | 0.37 | 7.2 | 0.49 | 0.41 | 1.5 | 0.034 | 7.7 | |
| NCS ZC 73024 | pollen | 1.1 | 0.308 | 0.037 | 0.35 | 0.033 | 0.1 | 0.51 | 0.061 | 8.2 | |
| NCS ZC 73025 | Gineseng | (0.27) | 0.406 | 0.033 | 0.06 | 0.023 | 0.072 | 0.13 | 0.017 | 5.9 | |
| NCS ZC 73026 | Huang-qi | 2.6 | 0.456 | 0.042 | 2.03 | 0.042 | 0.44 | 2.2 | 0.235 | 8.5 | |
| | | Dy(10 ⁻⁹) | Er(10 ⁻⁹) | Eu(10 ⁻⁹) | F(10 ⁻⁶) | Fe(10 ⁻⁶) | Gd(10 ⁻⁹) | Ge(10 ⁻⁹) | Hf(10 ⁻⁶) | Hg(10 ⁻⁹) | |
| NCS ZC 73023 | Spirulina | 186 | 78 | 87 | (37) | 0.11 | 355 | (36) | (0.03) | (15) | |
| NCS ZC 73024 | pollen | 20 | 10.8 | 6.2 | (12) | 212 | 27 | (8) | | 3.2 | |
| NCS ZC 73025 | Gineseng | 3.2 | 1.7 | (8) | (9) | 55 | 5.5 | | | 4 | |
| NCS ZC 73026 | Huang-qi | 122 | 60 | 32 | (20) | 0.113 | 160 | (26) | | (12) | |
| | | Ho(10 ⁻⁹) | I(10 ⁻⁶) | K(10 ⁻²) | La(10 ⁻⁶) | Li(10 ⁻⁶) | Lu(10 ⁻⁹) | Mg(10 ⁻²) | Mn(10 ⁻⁶) | Mo(10 ⁻⁶) | |
| NCS ZC 73023 | Spirulina | 33 | 0.54 | 1.41 | 4.8 | 0.24 | 9.5 | 0.287 | 31.7 | 0.3 | |
| NCS ZC 73024 | pollen | 3.8 | (0.16) | 0.585 | 0.17 | 0.21 | 1.22 | 0.163 | 22.7 | 0.42 | |
| NCS ZC 73025 | Gineseng | 0.67 | (0.1) | 0.96 | 0.045 | 0.087 | (0.3) | 0.137 | 21 | 0.18 | |
| NCS ZC 73026 | Huang-qi | 23 | 0.3 | 0.7 | 1.07 | 1.25 | 9 | 0.228 | 33 | 5.7 | |
| | | N(10 ⁻²) | Na(10 ⁻²) | Nd(10 ⁻⁶) | Ni(10 ⁻⁶) | P(10 ⁻²) | Pb(10 ⁻⁶) | Pr(10 ⁻⁹) | Rb(10 ⁻⁶) | S(10 ⁻²) | |
| NCS ZC 73023 | Spirulina | 10.6 | 1.9 | 2.4 | 1.44 | 1.17 | 2.8 | 705 | 1.5 | 0.78 | |
| NCS ZC 73024 | pollen | 4.3 | (0.009) | 0.14 | 0.5 | 0.65 | 0.25 | 38 | 6.4 | 0.38 | |
| NCS ZC 73025 | Gineseng | 1.9 | 0.0077 | 0.024 | 1.11 | 0.263 | 0.12 | 6.5 | 4.1 | 0.11 | |
| NCS ZC 73026 | Huang-qi | 2.35 | 0.145 | 0.9 | 2.26 | 0.225 | 1.44 | 231 | 10.5 | 0.193 | |
| | | Sb(10 ⁻⁶) | Sc(10 ⁻⁶) | Se(10 ⁻⁶) | Si(10 ⁻²) | Sm(10 ⁻⁹) | Sn(10 ⁻⁶) | Sr(10 ⁻⁶) | Tb(10 ⁻⁹) | Th(10 ⁻⁶) | |
| NCS ZC 73024 | pollen | 0.083 | 0.25 | 0.24 | (0.23) | 354 | (0.2) | 36 | 41 | 0.17 | |
| NCS ZC 73025 | Gineseng | 0.014 | 0.068 | 0.03 | (0.15) | 30 | | 13.2 | 3.7 | 0.53 | |
| NCS ZC 73026 | Huang-qi | (0.008) | (0.017) | 0.012 | (0.034) | 4.5 | (0.02) | 33 | 0.65 | (0.008) | |
| | | 0.063 | (0.30) | 0.071 | (0.71) | 172 | (0.10) | 51 | 22 | 0.3 | |
| | | Ti(10 ⁻⁶) | Tl(10 ⁻⁶) | Tm(10 ⁻⁹) | U(10 ⁻⁹) | V(10 ⁻⁶) | Y(10 ⁻⁶) | Yb(10 ⁻⁹) | Zn(10 ⁻⁶) | Ash(%) | |
| NCS ZC 73023 | Spirulina | 34 | 51 | 10 | 31 | 0.7 | 0.9 | 62 | 42 | (8.8) | |
| NCS ZC 73024 | pollen | 20 | 11 | 1.4 | 12 | 0.46 | 0.12 | 9.8 | 31 | (3.2) | |
| NCS ZC 73025 | Gineseng | 5.8 | 8.2 | (0.3) | 3.5 | 0.073 | 0.16 | 1.8 | 11.1 | (3.0) | |
| NCS ZC 73026 | Huang-qi | 102 | 51 | 8.8 | 122 | 2.56 | 0.6 | 62 | 22.3 | (5.16) | |
| Number | Name | Chemical Composition(ug/g) | | | | | | | | Unit Size (in g) | |
| | | K* | Na* | P* | Cl* | Ca | Mg | Cu | Zn | | Mn |
| NCS ZC 71001 | Beef Liver | 1.05 | 0.22 | 1.30 | 0.29 | 189 | 668 | 91.6 | 192 | 8.92 | 25 |
| | | Fe | Se | Mo | Sr | Co | S* | Ni | Al | Br | |
| NCS ZC 71001 | Beef Liver | 346 | 0.56 | 3.76 | 0.53 | 0.254 | (1.27) | (0.28) | (12) | (5.6) | |
| | | Ba | Cd | Hg | Rb | Pb | F | Ti | | | |
| NCS ZC 71001 | Beef Liver | (3.4) | (0.388) | (0.18) | (26) | (0.54) | (17) | (0.63) | | | |

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| Number | Name | Chemical Composition | | | | | | | Unit Size (in g) | |
|--------------|--------|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------|-----------------|
| | | Ag(10^{-9}) | Al(10^{-2}) | As(10^{-6}) | B(10^{-6}) | Ba(10^{-6}) | Be(10^{-9}) | Bi(10^{-9}) | | |
| NCS ZC 73028 | Rice | | (0.059) | 0.12±0.03 | 1.06±0.08 | 0.75±0.09 | 3.4±0.6 | (1.6) | 35 | |
| NCS ZC 73030 | Wheat | (0.004) | (0.021) | (0.025) | 0.54±0.11 | 1.4±0.2 | 1.5±0.4 | (1.8) | 35 | |
| NCS ZC 73031 | Carrot | (0.006) | (0.046) | 0.11±0.02 | 18.1±1.1 | 24±3 | 6.5±1.5 | (2.5) | 35 | |
| | | Br(10^{-6}) | Ca(10^{-2}) | Cd(10^{-6}) | Ce(10^{-6}) | Cl(10^{-2}) | Co(10^{-9}) | Cr(10^{-6}) | Cs(10^{-9}) | Cu(10^{-6}) |
| NCS ZC 73028 | Rice | (0.4) | 0.013±0.002 | 0.018±0.002 | 17±2 | (0.028) | 8.2±1.7 | 0.17±0.05 | 2.9±0.6 | 2.6±0.1 |
| NCS ZC 73030 | Wheat | (0.5) | 0.033±0.002 | 0.018±0.002 | 13.0±2.4 | (0.08) | 8.0±1.6 | (0.19) | 8.1±0.5 | 2.4±0.1 |
| NCS ZC 73031 | Carrot | (2.4) | 0.255±0.010 | 0.034±0.004 | 177±38 | (0.23) | 66±7 | 1.04±0.13 | 42±4 | 4.1±0.3 |
| | | Dy(10^{-9}) | Er(10^{-9}) | Eu(10^{-9}) | Fe(10^{-6}) | Gd(10^{-9}) | Ge(10^{-9}) | Hg(10^{-9}) | Ho(10^{-9}) | I(10^{-6}) |
| NCS ZC 73028 | Rice | 1.15±0.11 | 0.70±0.10 | 0.42±0.12 | 14.4±2.0 | 1.5±0.2 | (4.3) | 2.2±0.5 | 0.21±0.04 | |
| NCS ZC 73030 | Wheat | 0.9±0.2 | 0.5±0.1 | 0.45±0.14 | 20±3 | 11±0.2 | 16±0.4 | (2.2) | 0.20±0.05 | |
| NCS ZC 73031 | Carrot | 11.0±1.4 | 5.6±0.6 | 7.6±2.3 | 148±15 | 14.5±2.8 | 6.6±1.5 | 3.2±0.8 | 2.0±0.2 | (0.08) |
| | | K(10^{-2}) | La(10^{-9}) | Li(10^{-6}) | Lu(10^{-9}) | Mg(10^{-2}) | Mn(10^{-6}) | Mo(10^{-6}) | N(10^{-2}) | Na(10^{-2}) |
| NCS ZC 73028 | Rice | 0.14±0.01 | 10.3±1.1 | 0.068±0.016 | (0.1) | 0.53±0.002 | 1.15±0.6 | 0.61±0.03 | (1.47) | 1.10±2.5 |
| NCS ZC 73030 | Wheat | 0.21±0.01 | 8.1±1.4 | 0.027±0.007 | (0.07) | 0.048±0.002 | 10.8±0.4 | 0.25±0.02 | (2.3) | 14.2±3.4 |
| NCS ZC 73031 | Carrot | 1.08±0.04 | 114±24 | 0.16±0.02 | (0.8) | 0.091±0.003 | 12.1±0.5 | 0.10±0.01 | (1.06) | 0.65±0.03* |
| | | Nb(10^{-9}) | Nd(10^{-9}) | Ni(10^{-6}) | P(10^{-2}) | Pb(10^{-6}) | Pr(10^{-9}) | Rb(10^{-6}) | S(10^{-2}) | Sb(10^{-9}) |
| NCS ZC 73028 | Rice | (5) | 7.9±1.3 | 0.21±0.06 | 0.16±0.01 | 0.09±0.03 | 2.0±0.3 | 0.29±0.06 | (0.13) | (5.8) |
| NCS ZC 73030 | Wheat | (2.3) | 6.0±1.2 | (0.11) | 0.15±0.01 | 0.067±0.016 | 1.4±0.2 | 3.2±0.3 | 0.17±0.02 | (8) |
| NCS ZC 73031 | Carrot | 24±4 | 79±9 | 0.67±0.10 | 0.23±0.02 | 0.43±0.07 | 21±3 | 6.9±0.5 | (0.1) | (15) |
| | | Sc(10^{-9}) | Se(10^{-6}) | Si(10^{-2}) | Sm(10^{-9}) | Sn(10^{-9}) | Sr(10^{-6}) | Tb(10^{-9}) | Th(10^{-9}) | Ti(10^{-6}) |
| NCS ZC 73028 | Rice | (5) | (0.03) | (0.033) | 1.6±0.3 | (9) | 0.29±0.05 | (0.25) | 4.0±1.2 | (2.7) |
| NCS ZC 73030 | Wheat | (4) | 0.060±0.010 | (0.008) | 1.06±0.10 | (8) | 1.4±0.1 | 0.17±0.05 | (3.2) | (2.4) |
| NCS ZC 73031 | Carrot | (32) | 0.031±0.010 | (0.156) | 14.3±2.3 | (22) | 22±2 | 2.1±0.5 | 28±6 | (12) |
| | | Tl(10^{-9}) | Tm(10^{-9}) | U(10^{-9}) | V(10^{-6}) | Y(10^{-6}) | Yb(10^{-9}) | Zn(10^{-6}) | | |
| NCS ZC 73028 | Rice | 0.30±0.04 | 0.12±0.04 | (2.6) | (0.05) | 0.22±0.05 | 0.61±0.14 | 14.6±0.6 | | |
| NCS ZC 73030 | Wheat | (0.27) | 0.12±0.04 | (2) | (0.04) | 0.10±0.02 | 0.48±0.12 | 12.4±0.6 | | |
| NCS ZC 73031 | Carrot | 10.7±2.1 | 0.83±0.14 | 9.8±1.7 | (0.21) | 0.09±0.02 | 5.5±0.8 | 11.2±0.5 | | |

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| Number | Name | Chemical Composition | | | | | | | | Unit Size (in g) |
|---|------------|----------------------|-----------------|-----------------|----------------|-----------------|-----------------|-----------------|-------------|---------------------|
| | | Ag(10^{-6}) | Al(10^{-2}) | As(10^{-6}) | B(10^{-6}) | Ba(10^{-6}) | Be(10^{-9}) | Bi(10^{-9}) | | |
| NCS ZC 73032 | Celery | (0.012) | (0.14) | 0.39±0.08 | 32±3 | 17.3±2.3 | 31±5 | (13) | | 35 |
| NCS ZC 73033 | Scallion | (0.014) | (0.3) | 0.52±0.11 | 25±2 | 36±5 | 59±11 | (13) | | 35 |
| NCS ZC 73034 | Prawn | (0.017) | (0.029) | (2.5) | 2.0±0.3 | 2.3±0.3 | 4.9±0.8 | (5.4) | | 12 |
| NCS ZC 73035 | Pork liver | | (0.012) | 1.4±0.3 | (0.6) | (0.24) | 0.9±0.3 | (0.9) | | 35 |
| Br(10^{-6}) Ca(10^{-2}) Cd(10^{-6}) Ce(10^{-6}) Cl(10^{-2}) Co(10^{-6}) Cr(10^{-6}) Cs(10^{-6}) Cu(10^{-6}) | | | | | | | | | | |
| NCS ZC 73032 | Celery | 16±4 | 1.66±0.06 | 0.092±0.006 | 1.04±0.11 | (3.54) | 0.25±0.02 | 1.35±0.22 | 0.165±0.018 | 8.2±0.4 |
| NCS ZC 73033 | Scallion | 20±2 | 2.28±0.09 | 0.19±0.02 | 2.1±0.3 | (0.85) | 0.59±0.04 | 2.6±0.4 | 0.19±0.02 | 5.5±0.3 |
| NCS ZC 73034 | Prawn | 8.5±1.1 | 0.30±0.01 | 0.039±0.002 | 0.13±0.03 | (0.189) | 0.044±0.005 | 0.35±0.11 | 0.027±0.002 | 10.3±0.7 |
| NCS ZC 73035 | Pork liver | (2.8) | (0.023) | 1.00±0.07 | (0.005) | (0.17) | 0.057±0.004 | 0.23±0.06 | 0.070±0.007 | 52±3 |
| Dy(10^{-9}) Er(10^{-9}) Eu(10^{-9}) Fe(10^{-6}) Gd(10^{-9}) Ge(10^{-9}) Hg(10^{-9}) Ho(10^{-9}) I(10^{-6}) | | | | | | | | | | |
| NCS ZC 73032 | Celery | 64±11 | 30±4 | 20±2 | 597±34 | 81±13 | 21±7 | 14.6±2.4 | 12.4±1.3 | (0.43) |
| NCS ZC 73033 | Scallion | 119±12 | 57±12 | 39±4 | 1010±55 | 155±34 | (32) | 12.0±2.3 | 22±4 | (0.44) |
| NCS ZC 73034 | Prawn | 7.9±0.5 | 4.4±0.4 | 2.5±0.3 | 112±12 | 10.5±1.2 | 6.0±1.4 | 49±8 | 1.5±0.2 | (0.43) |
| NCS ZC 73035 | Pork liver | (0.3) | (0.2) | (0.2) | 519±34 | (0.6) | (12) | 45±8 | (0.14) | (0.18) |
| K(10^{-2}) La(10^{-6}) Li(10^{-6}) Lu(10^{-9}) Mg(10^{-2}) Mn(10^{-6}) Mo(10^{-6}) N(10^{-2}) Na(10^{-2}) | | | | | | | | | | |
| NCS ZC 73032 | Celery | 2.7±0.2 | 0.55±0.05 | 3.2±0.2 | 4.5±1.3 | 0.53±0.03 | 45±2 | 1.02±0.09 | (2.6) | 2.17±0.23 |
| NCS ZC 73033 | Scallion | 2.1±0.1 | 1.16±0.10 | 1.6±0.2 | (8) | 0.27±0.01 | 173±7 | 0.12±0.03 | (2.9) | (0.03) |
| NCS ZC 73034 | Prawn | 0.49±0.01 | 0.066±0.005 | 0.15±0.01 | 0.64±0.21 | 0.169±0.006 | 8.9±0.3 | 0.037±0.012 | (13.5) | 0.31±0.02 |
| NCS ZC 73035 | Pork liver | 0.66±0.03 | (0.004) | (0.02) | | 0.063±0.004 | 10.1±0.4 | 4.2±0.2 | (11.2) | 0.163±0.010 |
| Nb(10^{-9}) Nd(10^{-6}) Ni(10^{-6}) P(10^{-2}) Pb(10^{-6}) Pr(10^{-9}) Rb(10^{-6}) S(10^{-2}) Sb(10^{-9}) | | | | | | | | | | |
| NCS ZC 73032 | Celery | (85) | 0.47±0.08 | 1.8±0.4 | 0.35±0.01 | 2.7±0.7 | 118±13 | 18.5±1.2 | (1) | (56) |
| NCS ZC 73033 | Scallion | (215) | 0.91±0.11 | (1.9) | 0.36±0.02 | 1.34±0.16 | 235±29 | 9.4±0.8 | 0.46±0.04 | (45) |
| NCS ZC 73034 | Prawn | 16.5±4.0 | 0.056±0.006 | (0.23) | 0.77±0.03 | 0.20±0.05 | 14.5±1.1 | 1.4±0.1 | (1) | (16) |
| NCS ZC 73035 | Pork liver | | (0.003) | (0.1) | 1.14±0.06 | 0.12±0.03 | (0.6) | 27±2 | 0.80±0.12 | (12) |
| Sc(10^{-6}) Se(10^{-6}) Si(10^{-2}) Sm(10^{-9}) Sn(10^{-6}) Sr(10^{-6}) Tb(10^{-9}) Th(10^{-6}) Ti(10^{-6}) | | | | | | | | | | |
| NCS ZC 73032 | Celery | (0.16) | 0.118±0.017 | (0.38) | 87±9 | (0.1) | 213±19 | 12.6±2.6 | 177±31 | (45) |
| NCS ZC 73033 | Scallion | (0.26) | 0.069±0.009 | (1.1) | 167±18 | (0.07) | 74±5 | 22±5 | 364±58 | (62) |
| NCS ZC 73034 | Prawn | (0.02) | (5.1) | (0.048) | 10.7±1.8 | (0.024) | 20±2 | 1.5±0.2 | 28±8 | (17) |
| NCS ZC 73035 | Pork liver | (0.012) | 1.54±0.29 | | (0.5) | | 0.51±0.04 | (0.25) | (4.5) | |
| Tl(10^{-9}) Tm(10^{-9}) U(10^{-9}) V(10^{-6}) Y(10^{-6}) Yb(10^{-9}) Zn(10^{-6}) Ash(%) | | | | | | | | | | |
| NCS ZC 73032 | Celery | 21±4 | 4.2±1.1 | 48±12 | 1.3±0.3 | 0.35±0.08 | 29±7 | 26±2 | | |
| NCS ZC 73033 | Scallion | 37±8 | 7.8±1.5 | (50) | (3) | 0.61±0.14 | 57±17 | 25±1 | | |
| NCS ZC 73034 | Prawn | 2.0±0.5 | 0.69±0.18 | 9.7±0.8 | 0.24±0.07 | 0.09±0.02 | 4.1±0.8 | 76±4 | | |
| NCS ZC 73035 | Pork liver | 1.2±0.2 | | 3.2±0.9 | (0.078) | (0.04) | (0.17) | 211±11 | | |

Section 10 Environmental

| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
|--------------|----------------------------|--------------------------------|------------------|---------------------|---------------------|------------------------------------|--------------------------------|---------|------------------------------------|---------------------|---------|---------|---------|---------|---------------------|
| | | Cu | Pb | Zn | Cd | Cr | As | Hg | Se | Ni | Co | Ba | Sr | Rb | |
| NCS ZC 75001 | Kelp | 5.01 | 1.41 | 27.9 | 1.14 | 0.63 | 13.9 | 0.23 | 0.062 | 0.71 | 0.2 | 81.1 | 1033 | 11.7 | 12 |
| | | I | TiO ₂ | La | Ce | Pr | Nd | Sm | Gd | Tb | Dy | Ho | Er | Tm | |
| NCS ZC 75001 | Kelp | 515 | (58.39) | (0.29) | (1.15) | (0.06) | (0.2) | (0.062) | (0.067) | (0.0099) | (0.079) | (0.014) | (0.041) | (0.007) | |
| | | Yb | Lu | Y | Sc | Th | U | V | Sb | Cs | Bi | Hf | Li | Mo | |
| NCS ZC 75001 | Kelp | (0.051) | (0.008) | (0.56) | (0.241) | (0.070) | (0.241) | (1.72) | (0.066) | (0.028) | (0.033) | (0.013) | (0.69) | (0.129) | |
| | | Be | F | Cl | Br | Fe ₂ O ₃ (T) | Mno | | | | | | | | |
| NCS ZC 75001 | Kelp | (0.022) | (49) | (698) | (111) | 215 | 42.1 | | | | | | | | |
| Number | Name | Chemical Composition(percent) | | | | | | | | Unit Size (in g) | | | | | |
| | | Al ₂ O ₃ | CaO | MgO | K ₂ O | Na ₂ O | P ₂ O ₅ | N | S | | | | | | |
| NCS ZC 75001 | Main Content | 0.37 | 2.28 | 1.09 | 4.56 | 1.22 | 0.46 | (2.5) | (0.96) | 12 | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | | Unit Size (in g) |
| | | Cu | Zn | As | Hg | Se | Ni | Co | Sr | MnO | Rb | Cl | Pb | Cs | |
| NCS ZC 75002 | Yellow Croaker | 1.36 | 28.8 | 5.08 | 0.169 | 1.76 | 1.5 | 0.057 | 0.9 | 0.78 | 3.34 | 205*10 | (0.25) | (0.054) | 12 |
| | | Cr | Ba | MO | Cd | F | I | Br | Fe ₂ O ₃ (T) | | | | | | |
| NCS ZC 75002 | Yellow Croaker | (0.43) | (1.75) | (0.016) | (0.015) | (52) | (0.568) | (10.3) | 23.9 | | | | | | |
| Number | Name | Chemical composition(percent) | | | | | | | Unit Size (in g) | | | | | | |
| | | CaO | MgO | K ₂ O | Na ₂ O | P ₂ O ₅ | Al ₂ O ₃ | S | | N | | | | | |
| NCS ZC 75002 | Yellow Croaker | 0.071 | 0.22 | 1.97 | 0.23 | 1.95 | 0.166 | (1.05) | (12.69) | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | Unit Size (in g) | | | | | | |
| | | Cr | TAs | Cd | Hg | Pb | As inorganic | | | | | | | | |
| NCS ZC 11001 | Rice | 0.064 | 0.23 | 0.24 | 0.005 | 0.12 | 0.18 | | | | | | | | 35 |
| NCS ZC 11002 | Rice | 0.056 | 0.25 | 0.41 | 0.0041 | 0.15 | 0.19 | | | | | | | | 35 |
| NCS ZC 11003 | Rice | 0.046 | 0.16 | 0.32 | 0.0043 | 0.071 | (0.13) | | | | | | | | 35 |
| NCS ZC 11004 | Rice | 0.043 | 0.15 | 0.42 | 0.0036 | 0.11 | 0.12 | | | | | | | | 35 |
| NCS ZC 11005 | Rice | 0.040 | 0.19 | 0.87 | 0.0033 | 0.056 | 0.15 | | | | | | | | 35 |
| NCS ZC 11006 | Rice | 0.050 | 0.18 | 0.48 | 0.004 | 0.042 | 0.14 | | | | | | | | 35 |
| NCS ZC 11007 | Rice | 0.06 | 0.11 | 1.28 | 0.0037 | 0.10 | (0.084) | | | | | | | | 35 |
| NCS ZC 11008 | Rice | 0.045 | 0.11 | 0.99 | 0.0037 | 0.071 | 0.08 | | | | | | | | 35 |
| NCS ZC 11009 | Rice | 0.05 | 0.106 | 1.72 | 0.004 | 0.25 | 0.078 | | | | | | | | 35 |
| NCS ZC 11010 | Rice | 0.063 | 0.105 | 2.16 | 0.0038 | 0.11 | 0.081 | | | | | | | | 35 |
| NCS ZC 11011 | Rice | 0.053 | 0.16 | 0.62 | 0.0038 | 0.064 | 0.13 | | | | | | | | 35 |
| NCS ZC 11012 | Rice | 0.034 | 0.15 | 0.030 | 0.0040 | 0.062 | 0.13 | | | | | | | | 35 |
| NCS ZC 11013 | Rice | 0.052 | 0.12 | 0.22 | 0.003 | 0.049 | (0.082) | | | | | | | | 35 |
| NCS ZC 11014 | Rice | 0.050 | 0.12 | 0.11 | 0.0027 | 0.037 | 0.089 | | | | | | | | 35 |
| NCS ZC 11015 | Rice | 0.05 | 0.061 | 0.007 | (0.0017) | 0.11 | 0.046 | | | | | | | | 35 |
| Number | Name | Chemical Composition(µg/g) | | | Unit Size (in g) | | | | | | | | | | |
| | | Pb | Cd | Cr | | | | | | | | | | | |
| NCS ZC 76024 | Pb, Cd, Cr in wheat powder | 1.63 | 0.074 | 0.095 | 30 | | | | | | | | | | |
| NCS ZC 76025 | Pb, Cd, Cr in wheat powder | 0.810 | 0.015 | 0.105 | 30 | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | Unit Size (in g) | | | | | | | | | | | |
| | | Pb | As | | | | | | | | | | | | |
| NCS ZC 83005 | Pb, As in Cosmetic | 37.2 | 9.0 | 10 | | | | | | | | | | | |

Section 10 Environmental

| Number | Name | Nominal Concentration of Substance($\mu\text{mol/L}$) | Unit Size (in mL) |
|--------------|----------------------------------|---|-------------------|
| NCS ZC 75301 | Ammonia-Nitrogen Series Solution | 2.00 | 50 |
| NCS ZC 75302 | Ammonia-Nitrogen Series Solution | 4.00 | 50 |
| NCS ZC 75303 | Ammonia-Nitrogen Series Solution | 6.00 | 50 |
| NCS ZC 75304 | Nitrate-Nitrogen Serie Solution | 2.50 | 50 |
| NCS ZC 75305 | Nitrate-Nitrogen Serie Solution | 5.00 | 50 |
| NCS ZC 75306 | Nitrate-Nitrogen Serie Solution | 10.00 | 50 |
| NCS ZC 75307 | Nitrate-Nitrogen Serie Solution | 15.00 | 50 |
| NCS ZC 75308 | Nitrate-Nitrogen Serie Solution | 0.50 | 50 |
| NCS ZC 75309 | Nitrate-Nitrogen Serie Solution | 1.00 | 50 |
| NCS ZC 75310 | Nitrate-Nitrogen Serie Solution | 2.00 | 50 |
| NCS ZC 75311 | Nitrate-Nitrogen Serie Solution | 4.00 | 50 |
| NCS ZC 75312 | Silicate-Silicon Serie Solution | 1.00 | 50 |
| NCS ZC 75313 | Silicate-Silicon Serie Solution | 2.00 | 50 |
| NCS ZC 75314 | Silicate-Silicon Serie Solution | 5.00 | 50 |
| NCS ZC 75315 | Silicate-Silicon Serie Solution | 10.00 | 50 |
| NCS ZC 75316 | Silicate-Silicon Serie Solution | 12.5 | 50 |
| NCS ZC 75317 | Silicate-Silicon Serie Solution | 25.0 | 50 |
| NCS ZC 75318 | Silicate-Silicon Serie Solution | 50.0 | 50 |
| NCS ZC 75319 | Silicate-Silicon Serie Solution | 100.0 | 50 |
| Number | Name | Nominal Consistence($\mu\text{mol/L}$) | Unit Size (in mL) |
| NCS ZC 75320 | Potassium Iodate Solution | 0.01000 | 140 |
| NCS ZC 75321 | Hydrochloric Acid Solution | 0.00600 | 400 |
| Number | Name | Nominal Consistence($\mu\text{mol/L}$) | Unit Size (in mL) |
| NCS ZC 75322 | Phosphate Series Solution | 0.40 | 50 |
| | | 0.80 | 50 |
| | | 1.60 | 50 |
| | | 3.20 | 50 |
| | | 4.80 | 50 |

Section 10 Environmental

| Number | Name | Chemical Composition(mg/mL) | | | | | | | | | | | Unit Size (in mL) | |
|--|----------------|-----------------------------|--------|---------|--------|---------|--------|--------|--------|------|--------|-------|----------------------|---------------------|
| NCS ZC 76011 | Amaranth | 0.50 | | | | | | | | | | | 5 | |
| NCS ZC 76012 | Ponceau 4R | 0.50 | | | | | | | | | | | 5 | |
| NCS ZC 76013 | Tartra Zine | 0.50 | | | | | | | | | | | 5 | |
| NCS ZC 76014 | Brilliant Blue | 0.50 | | | | | | | | | | | 5 | |
| NCS ZC 76015 | Sunset Yellow | 0.50 | | | | | | | | | | | 5 | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | Unit Size (in g) | |
| NCS ZC 78001 | Coal Fly Ash | As | Be | Cd | Co | Cu | Mn | Pb | Se | Y | Zn | Fe* | 30or50 | |
| | | 11.4 | 10.7 | 0.16 | 33.2 | 53 | 1178 | 33.8 | 1.13 | 95 | 61 | 7.65 | | |
| | | Cr | Ba | Hg | | | | | | | | | | |
| NCS ZC 78001 | Coal Fly Ash | 60 | (1450) | (0.039) | | | | | | | | | | |
| *Chemical Composition(percent) | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(µg/g) | | | | | | | | | | | | Unit Size (in g) |
| NCS ZC 81002b | Human Hair | Zn | Se | Cr | Mg | Mn | As | Ca | Fe | Cu | Sr | Hg | Na | 7 |
| | | 191 | 0.59 | 8.74 | 248 | 3.83 | 0.198 | 1537 | 160 | 33.6 | 8.17 | 1.06 | 445 | |
| | | Pb | Ni | Cd | Al | Co | Mo | Sc* | Br | Sb | K | Ag | Ba | |
| NCS ZC 81002b | Human Hair | 3.83 | 5.77 | 0.072 | 23.2 | 0.153 | 1.06 | | (0.59) | 0.12 | (14.4) | 0.037 | 11.1 | |
| | | P | I | V | Cl | La | S*** | Ti | | | | | | |
| NCS ZC 81002b | Human Hair | 174 | 0.96 | (0.089) | (48.2) | (0.029) | (4.62) | (2.10) | | | | | | |
| * Unit of Certifia Value of the element is µg/kg | | | | | | | | | | | | | | |
| ** Unit of Certified Value of the elencent is weight percent | | | | | | | | | | | | | | |
| Number | Name | Range Concentration(mg/L) | | | | | | | | | | | Unit Size (in mL) | |
| NCS ZC 85301 | COD | 70~200 | | | | | | | | | | | 20 | |
| NCS ZC 85302 | COD | 50~150 | | | | | | | | | | | 20 | |
| NCS ZC 85303 | Phenol | 0.01~1.5 | | | | | | | | | | | 20 | |

Section 11 Set-up Sample

1) Iron, Steel & Alloy (Disk)

| Number | Name | Chemical Composition(percent) | | | | | | | | | | | | | | Unit Size (mm) | |
|---------------|----------------------|-------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|---------------------|--------|---------------------|--------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | W | Mb | | | |
| NCS AH 11304 | Low Alloy Steel | 0.092 | 0.825 | 1.04 | 0.014 | 0.066 | 0.166 | 1.94 | 0.572 | 0.044 | 0.131 | 0.049 | 1.50 | 0.912 | Φ38×30 | | |
| NCS AH 11309 | Carbsn Steel | 0.411 | 0.274 | 0.575 | 0.018 | 0.015 | 0.009 | 0.022 | 0.135 | | | | | | Φ38×45 | | |
| NCS AH 11311 | 60Si ₂ Mn | 0.661 | 1.82 | 0.825 | 0.027 | 0.017 | 0.021 | 0.020 | 0.136 | | | | | | Φ38×45 | | |
| | | Co | Nb | Zr | B | Sn | As | Sb | Pb | Bi | | | | | | | |
| NCS AH 11304 | Low Alloy Steel | 0.397 | 0.050 | 0.0025 | 0.0007 | 0.0041 | 0.019 | 0.0023 | 0.0007 | 0.0043 | | | | | | | |
| NCS AH 11309 | Carbsn Steel | 0.012 | | | | | 0.018 | | | | | | | | | | |
| NCS AH 11311 | 60Si ₂ Mn | 0.011 | | | | | 0.016 | | | | | | | | | | |
| Number | Name | Chemical Composition(percent) | | | | | | | | | | | | | | Unit Size (in g) | |
| | | C | Si | Mn | p | S | Cr | Ni | Cu | V | Ti | Co | Al | B | | | |
| NCS AH 11319 | Carbon Steel | 0.101 | 0.249 | 0.400 | 0.043 | 0.030 | 0.068 | 0.066 | 0.086 | | | | 0.264 | 0.0014 | Φ37×45 | | |
| NCS AH 11321 | Carbon Steel | 0.397 | 0.401 | 0.555 | 0.024 | 0.022 | 0.238 | 0.188 | 0.133 | | | | 0.466 | 0.0023 | Φ37×45 | | |
| NCS AH 11322c | Carbon Steel | 0.461 | 0.293 | 0.598 | 0.016 | 0.0013 | 0.02 | 0.012 | 0.011 | 0.0029 | | | 0.024 | | Φ37×45 | | |
| NCS AH 11323 | Carbon Steel | 0.543 | 0.361 | 0.663 | 0.024 | 0.024 | 0.169 | 0.164 | 0.118 | | | | 0.089 | 0.0021 | Φ37×45 | | |
| NCS AH 11324 | Carbon Steel | 0.235 | 0.318 | 0.632 | 0.037 | 0.028 | 0.076 | 0.103 | 0.106 | | | | 0.071 | | Φ37×40 | | |
| NCS AH 11326 | Low Alloy Steel | 0.225 | 0.386 | 1.04 | 0.012 | 0.016 | 1.06 | 0.122 | 0.174 | | 0.073 | | 0.096 | 0.0016 | Φ37×45 | | |
| NCS AH 11327 | Low Alloy Steel | 0.263 | 1.40 | 1.34 | 0.044 | 0.023 | 0.083 | 0.063 | 0.125 | | | | 0.064 | | Φ37×40 | | |
| NCS AH 11329 | Low Alloy Steel | 0.447 | 1.20 | 0.825 | 0.028 | 0.022 | 1.10 | 0.434 | 0.252 | 0.219 | 0.065 | 0.016 | 0.070 | 0.015 | Φ37×40 | | |
| NCS AH 11330 | Low Alloy Steel | 0.803 | 0.882 | 0.294 | 0.020 | 0.031 | 2.76 | 0.140 | 0.055 | 0.144 | 0.132 | 0.228 | 0.194 | 0.0060 | Φ37×40 | | |
| NCS AH 11331 | Low Alloy Steel | 0.238 | 0.290 | 0.712 | 0.014 | 0.015 | 1.05 | 1.42 | 0.154 | 0.013 | 0.0022 | 0.052 | 0.067 | 0.0015 | Φ37×40 | | |
| NCS AH 11334 | G Cr 15 | 1.02 | 0.250 | 0.340 | 0.015 | 0.023 | 1.48 | 0.036 | 0.037 | 0.022 | | | | | | | |
| | | W | Mo | Nb | Zr | Sb | Sn | As | Pb | N | Als | Ca | | | | | |
| NCS AH 11319 | Carbon Steel | | | | | | 0.0024 | 0.0058 | | | | | | | | | |
| NCS AH 11321 | Carbon Steel | | | | | | 0.0050 | 0.012 | | | | | | | | | |
| NCS AH 11322c | Carbon Steel | | | | | | 0.012 | 0.007 | | 0.010 | 0.022 | 0.0013 | | | | | |
| NCS AH 11322 | Carbon Steel | | | | | | 0.0035 | 0.012 | | | | | | | | | |
| NCS AH 11323 | Carbon Steel | | | | | | 0.0026 | 0.012 | | | | | | | | | |
| NCS AH 11324 | Carbon Steel | | | | | 0.014 | 0.024 | 0.015 | 0.0011 | | | | | | | | |
| NCS AH 11326 | Low Alloy Steel | | | | | | 0.0031 | 0.0055 | | | | | | | | | |
| NCS AH 11327 | Low Alloy Steel | | | | | 0.018 | 0.015 | 0.012 | | | | | | | | | |
| NCS AH 11329 | Low Alloy Steel | 0.015 | 0.036 | 0.096 | 0.0011 | 0.0018 | 0.0063 | 0.023 | 0.0062 | | | | | | | | |
| NCS AH 11330 | Low Alloy Steel | 0.233 | 0.983 | 0.059 | 0.0010 | 0.020 | 0.0059 | 0.011 | 0.0062 | | | | | | | | |
| NCS AH 11331 | Low Alloy Steel | 0.057 | 0.164 | 0.0066 | 0.0011 | | 0.059 | 0.0079 | 0.0003 | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size (in g) | | | |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Mo | W | | | | |
| NCS AH 11335 | 50# | 0.49 | 0.376 | 0.625 | 0.025 | 0.013 | 0.019 | 0.026 | 0.027 | 0.098 | | | | | Φ38×40 | | |
| NCS AH 11336 | 25# | 0.245 | 0.272 | 0.721 | 0.025 | 0.027 | 0.153 | 0.282 | 0.125 | | | | | | Φ37×35 | | |
| NCS AH 11337 | A3 | 0.183 | 0.277 | 0.622 | 0.029 | 0.011 | 0.033 | 0.028 | 0.185 | | | | | | Φ37×35 | | |
| NCS AH 11339 | GCr15SiMn | 1.18 | 0.842 | 1.02 | 0.018 | 0.006 | 1.44 | 0.046 | 0.152 | | | | 0.027 | | Φ38×40 | | |
| NCS AH 11340 | 15CrMo | 0.144 | 0.244 | 0.553 | 0.024 | 0.028 | 0.975 | 0.067 | 0.054 | | 0.018 | 0.452 | | | Φ38×40 | | |
| NCS AH 11341 | 42CrMo | 0.422 | 0.349 | 0.66 | 0.021 | 0.006 | 1.05 | 0.066 | 0.063 | | 0.012 | 0.195 | | | Φ38×40 | | |
| NCS AH 11342 | 5CrMnMo | 0.533 | 0.413 | 1.33 | 0.016 | 0.012 | 0.723 | 0.177 | 0.133 | | 0.0071 | 0.167 | | | Φ38×40 | | |
| NCS AH 11343 | 9SiCr | 0.861 | 1.44 | 0.446 | 0.026 | 0.014 | 1.11 | 0.031 | 0.038 | 0.039 | 0.011 | | | | Φ38×40 | | |
| NCS AH 11344 | CrWMn | 0.964 | 0.266 | 0.947 | 0.023 | 0.006 | 1.06 | 0.02 | 0.128 | | 0.034 | 1.42 | | | Φ38×40 | | |
| Number | Name | Chemical Composition(percent) | | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Cr | Mo | Ni | Al | Co | Cu | Nb | Ti | V | | W |
| NCS AH 11345 | Cast iron | 2.06 | 2.94 | 1.20 | 0.041 | 0.041 | 0.159 | 0.097 | 0.151 | 0.017 | 0.006 | 0.322 | 0.147 | 0.032 | 0.058 | 0.279 | Φ28×20 |

Section 11 Set-up Sample

1) Iron, Steel & Alloy (Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
|--------------|-----------------------------------|-------------------------------|--------|--------|--------|--------|---------|---------|--------|--------|--------|-------|---------|--------|--------|----------------|
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | W | Mo | Co | Ti | | |
| NCS AH 11351 | Pure iron | 0.0018 | 0.0038 | 0.0057 | 0.0031 | 0.0016 | 0.032 | 0.066 | 0.022 | <0.001 | <0.001 | 0.019 | 0.0041 | <0.001 | Φ37×40 | |
| NCS AH 11353 | Cast iron | 3.15 | 2.3 | 0.47 | 0.02 | 0.0006 | 0.025 | 0.59 | 0.029 | 0.032 | 0.003 | 0.002 | 0.015 | 0.027 | Φ30×25 | |
| | | | Nb | Sn | As | Sb | Al | Pb | Bi | N | Alt | B | Mg | La | Ce | |
| NCS AH 11351 | Pure iron | <0.0005 | 0.0019 | 0.0021 | 0.0003 | 0.001 | <0.0001 | <0.0001 | | | | | | | | |
| NCS AH 11353 | Cast iron | | 0.0037 | | | | | | 0.003 | 0.023 | 0.004 | 0.029 | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | Al | V | Ti | Mo | W | | |
| NCS AH 11354 | Cast iron | 2.11 | 3.44 | 1.26 | 0.45 | 0.09 | 0.109 | 0.17 | 1.4 | 0.04 | 0.45 | 0.225 | 0.055 | 0.31 | Φ28×20 | |
| NCS AH 11355 | Cast iron | 4.14 | 1.57 | 0.21 | 0.049 | 0.012 | 2.14 | 2.14 | 0.184 | 0.01 | 0.034 | 0.05 | 0.831 | 0.051 | Φ28×20 | |
| NCS AH 11356 | Cast iron | 3.63 | 2.55 | 0.64 | 0.097 | 0.02 | 0.14 | 0.488 | 0.682 | 0.018 | 0.236 | 0.118 | 0.336 | 0.074 | Φ28×20 | |
| | | | Nb | Co | Sb | Sn | Bi | Zr | La | Mg | B | Ce | | | | |
| NCS AH 11354 | Cast iron | 0.179 | 0.083 | 0.115 | 0.028 | 0.015 | 0.0023 | 0.0013 | 0.0025 | 0.062 | 0.0014 | | | | | |
| NCS AH 11355 | Cast iron | 0.03 | 0.052 | 0.021 | 0.134 | 0.009 | 0.0014 | 0.0094 | 0.015 | 0.0012 | 0.012 | | | | | |
| NCS AH 11356 | Cast iron | 0.072 | 0.056 | 0.035 | 0.079 | 0.0083 | 0.0015 | 0.0085 | 0.037 | 0.016 | 0.012 | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Cu | V | Ti | Mo | Alt | Co | | |
| NCS AH 11357 | Alloy Structure Steel | 0.147 | 0.369 | 1.11 | 0.019 | 0.015 | 0.0091 | 0.0053 | 0.016 | | | | | | Φ38×40 | |
| NCS AH 11358 | Alloy Structure Steel | 0.402 | 0.226 | 0.690 | 0.011 | 0.0083 | 0.95 | 0.015 | 0.015 | 0.0045 | | | | | Φ36×40 | |
| NCS AH 11359 | Alloy Structure Steel | 0.225 | 0.220 | 0.616 | 0.013 | 0.0081 | 0.815 | 0.012 | 0.0081 | 0.0046 | 0.0032 | | | | Φ37×40 | |
| NCS AH 11360 | Stainless Steel | 0.058 | 0.854 | 1.49 | 0.027 | 0.010 | 17.39 | 11.91 | 0.168 | 0.043 | 0.366 | 2.33 | 0.046 | 0.105 | Φ36×30 | |
| NCS AH 11361 | Carbon Structure Steel | 0.066 | 0.0096 | 0.455 | 0.011 | 0.010 | 0.016 | 0.0041 | 0.0059 | | | | 0.041 | | Φ38×40 | |
| NCS AH 11363 | Alloy tool Steel | 0.482 | 0.63 | 0.158 | 0.021 | 0.0086 | 1.15 | 0.078 | 0.094 | | | 0.026 | | | Φ35×35 | |
| | | | W | Als | | | | | | | | | | | | |
| NCS AH 11360 | Stainless Steel | 0.060 | | | | | | | | | | | | | | |
| NCS AH 11361 | Carbon Structure Steel | | 0.039 | | | | | | | | | | | | | |
| NCS AH 11363 | Alloy tool Steel | 2.16 | | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Ni | Cr | Cu | V | Ca | Als | Alt | Sn | | |
| NCS AH 11364 | Carbon Steel | 0.057 | 0.026 | 0.121 | 0.010 | 0.0032 | 0.010 | 0.016 | 0.0087 | 0.0010 | 0.0019 | 0.032 | 0.034 | 0.0097 | Φ38×40 | |
| NCS AH 11365 | line pipe steel | 0.054 | 0.266 | 1.53 | 0.011 | 0.0052 | 0.05 | 0.013 | 0.010 | 0.014 | 0.0015 | 0.019 | 0.021 | 0.017 | Φ38×40 | |
| NCS AH 11366 | stainless steel 2Cr13 | 0.176 | 0.388 | 0.501 | 0.024 | 0.0036 | 0.115 | 12.29 | 0.074 | 0.024 | | | | | Φ37×30 | |
| NCS AH 11367 | stainless steel 316L | 0.017 | 0.476 | 0.847 | 0.034 | 0.0008 | 10.23 | 16.65 | 1.09 | 0.066 | | | (0.007) | 0.032 | Φ38×30 | |
| NCS AH 11368 | stainless steel 304 | 0.066 | 0.76 | 1.16 | 0.030 | 0.0091 | 8.23 | 17.49 | 0.355 | 0.061 | | | 0.014 | 0.012 | Φ38×30 | |
| NCS AH 11369 | stainless steel 304L | 0.026 | 0.522 | 0.857 | 0.033 | 0.0020 | 8.11 | 18.18 | 0.445 | 0.068 | | | (0.004) | 0.013 | Φ38×30 | |
| NCS AH 11370 | stainless steel321(0Cr18Ni10Ti) | 0.046 | 0.609 | 1.18 | 0.027 | 0.016 | 11.65 | 17.57 | 0.199 | 0.075 | | | 0.053 | 0.011 | Φ33×30 | |
| NCS AH 11371 | stainless steel(9Cr18Ti) | 0.95 | 0.487 | 0.315 | 0.027 | 0.003 | 0.171 | 17.70 | 0.064 | 0.022 | | | 0.014 | 0.0063 | Φ33×30 | |
| NCS AH 11372 | stainless steel 630(0Cr17Ni4CuNb) | 0.037 | 0.552 | 0.604 | 0.041 | 0.0056 | 4.12 | 15.73 | 3.46 | 0.067 | | | (0.004) | 0.019 | Φ38×30 | |
| NCS AH 11373 | stainless steel(CrMnN) | 0.160 | 0.484 | 5.56 | 0.040 | 0.035 | 5.21 | 13.72 | 0.520 | 0.046 | | | | 0.013 | Φ38×30 | |
| NCS AH 11374 | stainless steel(CrMnN) | 0.085 | 0.458 | 11.03 | 0.032 | 0.014 | 0.68 | 13.79 | 1.16 | 0.056 | | | | 0.012 | Φ38×30 | |
| NCS AH 11375 | high speed tool steel(W6M65Cr4V2) | 0.84 | 0.305 | 0.328 | 0.028 | 0.015 | 0.090 | 3.89 | 0.103 | 1.83 | | | | 0.012 | Φ38×30 | |
| NCS AH 11376 | high speed tool steel(W18Cr4V) | 0.72 | 0.300 | 0.227 | 0.027 | 0.026 | 0.074 | 4.09 | 0.107 | 1.12 | | | (0.005) | 0.028 | Φ33×30 | |
| NCS AH 11377 | Cast iron | 2.13 | 4.03 | 0.722 | 0.47 | 0.027 | 0.144 | 0.136 | 0.344 | 0.062 | | | | 0.0168 | Φ32×19 | |
| NCS AH 11378 | Cast iron | 3.67 | 2.61 | 0.530 | 0.044 | 0.047 | 0.304 | 0.330 | 0.565 | 0.071 | | | | 0.050 | Φ32×19 | |

Section 11 Set-up Sample 1) Iron, Steel & Alloy (Disk)

| | As | N | W | Co | MO | Nb | Ti | La | Ce | Mg | Sb | | | | |
|--|-------------------------|---------|-------|-------|---------|--------|----------|-------|-------|-------|-------|-------|-------|-------|----------------|
| NCS AH 11364 Carbon Steel | 0.0051 | 0.010 | | | 0.209 | 0.039 | 0.015 | | | | | | | | |
| NCS AH 11365 line pipe steel | 0.012 | 0.0085 | | 0.032 | 0.013 | | | | | | | | | | |
| NCS AH 11366 stainless steel 2Cr13 | | | 0.045 | 0.144 | 2.08 | 0.012 | | | | | | | | | |
| NCS AH 11367 stainless steel 316L | | | 0.021 | 0.099 | 0.205 | 0.011 | (0.0007) | | | | | | | | |
| NCS AH 11368 stainless steel 304 | | | 0.015 | 0.152 | 0.119 | 0.0052 | 0.006 | | | | | | | | |
| NCS AH 11369 stainless steel 304L | | | 0.036 | 0.057 | 0.438 | 0.0039 | (0.002) | | | | | | | | |
| NCS AH 11370 stainless steel 321(0Cr18Ni10Ti) | | | 0.037 | 0.018 | 0.014 | | 0.325 | | | | | | | | |
| NCS AH 11371 stainless steel(9Cr18) | | | 0.054 | 0.067 | 0.191 | 0.287 | | | | | | | | | |
| NCS AH 11372 stainless steel 630(0Cr17Ni4CuNb) | | | 0.050 | 0.079 | 0.255 | 0.007 | | | | | | | | | |
| NCS AH 11373 stainless steel(CrMnN) | 0.077 | (0.003) | 0.063 | 0.013 | (0.002) | | | | | | | | | | |
| NCS AH 11374 stainless steel(CrMnN) | 0.136 | 5.93 | 0.017 | 5.08 | | | | | | | | | | | |
| NCS AH 11375 high speed tool steel(W6Mo5Cr4V2) | | | 17.45 | 0.019 | 0.076 | | (0.003) | | | | | | | | |
| NCS AH 11376 high speed tool steel(W18Cr4V) | | | | | 0.063 | | 0.056 | 0.011 | 0.019 | 0.049 | 0.039 | | | | |
| Chemical Composition(Percent) | | | | | | | | | | | | | | | |
| Number | Name | C | Si | Mn | P | S | Cr | Ni | Cu | V | Mo | Ti | Nb | Al | Unit Size (mm) |
| NCS AH 11385 | High Chromium Cast Iron | 3.20 | 0.77 | 0.625 | 0.039 | 0.041 | 25.95 | 0.777 | 0.806 | 0.281 | 0.516 | 0.029 | 0.011 | 0.112 | Φ30×24 |
| NCS AH 11386 | High Chromium Cast Iron | 2.96 | 0.87 | 1.18 | 0.047 | 0.053 | 13.57 | 0.559 | 0.546 | 0.175 | 0.346 | 0.02 | 0.025 | | Φ30×24 |
| NCS AH 11387 | High Chromium Cast Iron | 2.33 | 1.13 | 0.614 | 0.102 | 0.1 | 5.43 | 0.373 | 0.979 | 0.454 | 0.212 | 0.053 | 0.032 | 0.136 | Φ30×24 |

Section 11 Set-up Sample

1) Iron, Steel & Alloy (Disk)

| Number | Name | Chemical Composition(Percent) | | | | | | | | | | Unit Size (mm) | | | | |
|-------------|-----------------------|-------------------------------|----------|-----------|-----------|-----------|--------|----------|--------|-----------|---------|----------------|--------|-----------|----------------|----------------|
| | | C | Si | Mn | P | S | Ni | Cr | Cu | Mo | | | | | | |
| NCSAH 18301 | Carbon Steel | 0.48 | 0.322 | 0.613 | 0.028 | 0.018 | 0.177 | 0.456 | 0.097 | 0.129 | | | | | | Φ37×30 |
| NCSAH 18302 | Carbon Steel | 0.442 | 0.376 | 0.577 | 0.023 | 0.023 | | | | | | | | | | Φ37×30 |
| NCSAH 18303 | Carbon Steel | 0.072 | 0.022 | 0.507 | 0.016 | 0.02 | 0.013 | 0.017 | 0.048 | | | | | | | Φ37×30 |
| NCSAH 18304 | Carbon Steel | 0.669 | 0.273 | 0.571 | 0.012 | 0.015 | | | | | | | | | | Φ37×30 |
| NCSAH 18305 | Carbon Steel | 0.094 | 0.229 | 0.55 | 0.015 | 0.018 | | | | | | | | | | Φ37×30 |
| NCSAH 18306 | Carbon Steel | 0.196 | 0.223 | 0.465 | 0.014 | 0.012 | | | | | | | | | | Φ37×30 |
| NCSAH 18307 | Carbon Steel | 0.455 | 0.22 | 0.582 | 0.021 | 0.01 | | | | | | | | | | Φ37×30 |
| NCSAH 18308 | Carbon Steel | 0.442 | 0.23 | 0.6 | 0.011 | 0.014 | | | | | | | | | | Φ37×30 |
| NCSAH 18309 | Carbon Steel | 0.742 | 0.219 | 0.553 | 0.008 | 0.011 | | | | | | | | | | Φ37×30 |
| NCSAH 18310 | Carbon Steel | 0.689 | 0.279 | 0.581 | 0.008 | 0.015 | | | | | | | | | | Φ37×30 |
| NCSAH 18311 | Carbon Steel | 0.205 | 0.603 | 1.37 | 0.019 | 0.021 | 0.014 | 0.019 | 0.041 | | | | | | | Φ37×30 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | S | Mn | P | Si | Cr | Ni | Mo | Cu | V | Al | B | | | |
| NCSAH 20304 | 60SiMnA | 0.588 | 0.012 | 0.699 | 0.015 | 1.72 | 0.258 | 0.042 | | 0.102 | | 0.010 | | | | Φ42×40 |
| NCSAH 20305 | 50CrVA | 0.497 | 0.018 | 0.629 | 0.011 | 0.253 | 0.944 | 0.062 | | 0.122 | 0.143 | 0.020 | | | | Φ42×40 |
| NCSAH 20306 | 35CrMo | 0.376 | 0.018 | 0.534 | 0.026 | 0.283 | 1.00 | 0.110 | 0.197 | 0.096 | | 0.037 | | | | Φ42×40 |
| NCSAH 20307 | 12CrMoV | 0.109 | 0.014 | 0.527 | 0.011 | 0.247 | 1.04 | 0.064 | | 0.095 | 0.203 | 0.032 | | | | Φ42×40 |
| NCSAH 20308 | 20MnVB | 0.208 | 0.011 | 1.36 | 0.012 | 0.256 | 0.044 | 0.041 | | 0.085 | 0.101 | 0.038 | 0.0023 | | | Φ42×40 |
| NCSAH 20309 | 40Cr | 0.406 | 0.020 | 0.629 | 0.019 | 0.302 | 1.01 | 0.068 | | 0.105 | | 0.030 | | | | Φ42×40 |
| NCSAH 20310 | 42CrMo | 0.407 | 0.018 | 0.628 | 0.017 | 0.243 | 0.953 | 0.057 | 0.163 | 0.096 | | 0.022 | | | | Φ42×40 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Mo | Cu | V | Ti | Al | Ni | Nb | | |
| NCSAH 20311 | Steel | 0.0058 | 0.0049 | 0.031 | 0.0069 | 0.0064 | 0.015 | (0.0004) | 0.006 | 0.00014 | 0.00013 | 0.01 | 0.0047 | (<0.0015) | | Φ35×40 |
| NCSAH 20312 | Steel | 0.011 | 0.179 | 0.19 | 0.049 | 0.0034 | 27.77 | 0.0095 | 0.022 | 0.032 | | 0.046 | 0.34 | 0.11 | | Φ35×40 |
| NCSAH 20313 | Steel | | | 10.34 | | | 8.52 | | | 0.44 | 0.91 | 0.83 | 6.51 | | | Φ35×40 |
| NCSAH 20314 | Steel | 0.262 | 2.65 | 2.27 | 0.007 | 0.041 | 0.973 | 2.9 | 0.396 | | 0.019 | | 25.14 | | | Φ35×40 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | B | W | N | Pb | Bi | Sb | As | Sn | Ca | Ce | | | | | |
| NCSAH 20311 | Steel | <0.001 | (<0.001) | 0.0039 | (<0.0015) | (<0.0001) | 0.0002 | 0.0006 | 0.0005 | (<0.0003) | | | | | | |
| NCSAH 20312 | Steel | 0.0083 | 0.25 | | 0.0042 | | 0.008 | 0.0031 | 0.0019 | | | | | | | |
| NCSAH 20313 | Steel | | | 0.044 | | | | 0.007 | 0.018 | (<0.0015) | | | | | | |
| NCSAH 20314 | Steel | 0.001 | 0.028 | | | | | | | | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Mo | Cu | V | Ti | Al | Ni | Nb | | |
| NCSAH 20315 | Carbon Steel | 0.015 | 0.632 | 1.91 | 0.0037 | 0.057 | 0.099 | 0.564 | 0.384 | 0.57 | 0.026 | 0.013 | 0.55 | 0.099 | | Φ35×40 |
| NCSAH 20316 | Carbon Steel | 0.92 | 0.091 | 0.075 | 0.047 | 0.0016 | 1.29 | 0.016 | 0.04 | 0.0016 | 0.55 | 0.102 | 0.062 | 0.0006 | | Φ35×40 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | B | W | Bi | Pb | Zn | Sb | As | Sn | Ca | | | | | | |
| NCSAH 20315 | Carbon Steel | 0.0009 | 0.076 | (<0.0005) | (<0.0006) | (<0.004) | 0.0005 | 0.011 | 0.0018 | (<0.001) | | | | | | |
| NCSAH 20316 | Carbon Steel | 0.009 | 0.0019 | 0.0004 | 0.003 | 0.0017 | 0.0043 | 0.0035 | 0.012 | (<0.001) | | | | | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) | |
| | | C | Si | Mn | P | S | Ni | Cr | Mo | V | Cu | Al | | | | |
| NCSAH 20317 | SL9N590 | 0.072 | 0.30 | 1.13 | 0.006 | 0.021 | 8.84 | 0.21 | 0.056 | | 0.048 | 0.026 | | | | Φ40×45 |
| NCSAH 20318 | 20Mn23AlV | 0.220 | 0.31 | 23.92 | 0.016 | 0.0056 | 0.02 | 0.054 | | 0.124 | 0.016 | 2.57 | | | | Φ40×45 |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | | Unit Size (mm) |
| | | C | S | Mn | P | Si | Cr | Ni | Mo | Cu | V | Sb | B | | | |
| NCSAH 21308 | Pure Iron | 0.003 | 0.004 | 0.017 | 0.005 | 1.48 | 1.05 | 0.980 | 0.312 | 0.192 | | | 0.0011 | | | Φ40×40 |
| NCSAH 21309 | Middle Low Alloy | 0.701 | 0.039 | 2.06 | 0.013 | 0.042 | 0.065 | 0.026 | 0.003 | 0.022 | 0.094 | 0.0034 | 0.0041 | | | Φ40×40 |
| NCSAH 21310 | Stainless Steel | 0.082 | 0.030 | 1.15 | 0.020 | 0.429 | 17.63 | 10.04 | 2.00 | 1.01 | 1.04 | | | | | Φ40×40 |
| NCSAH 21311 | High Speed tool Steel | 0.856 | 0.005 | 0.312 | 0.017 | 0.33 | 3.93 | 0.048 | 4.83 | 0.261 | 1.90 | | | | | Φ40×40 |
| NCSAH 21312 | High Manganese Steel | 0.297 | 0.117 | 16.24 | 0.033 | 0.48 | 0.69 | 0.43 | 0.506 | 0.208 | 0.23 | | | | | Φ40×40 |
| NCSAH 21313 | High Speed tool Steel | 0.75 | 0.002 | 0.16 | 0.017 | 0.282 | 4.20 | 0.041 | 0.10 | 0.137 | 0.17 | | | | | Φ40×40 |

Section 11 Set-up Sample 1) Iron, Steel & Alloy (Disk)

| Number | Name | Chemical Composition(percent) | | | | | | | | | | | | Unit Size (mm) | |
|--------------|-----------------------|-------------------------------|--------|-----------------|--------|--------|-------|-------|--------|--------|--------|-----------------|---------|-------------------|-------------------|
| | | C | S | Mn | P | Si | Cr | Ni | Mo | Cu | V | Sb | B | | |
| NCS AH 21308 | Pure Iron | 0.003 | 0.004 | 0.017 | 0.005 | 1.48 | 1.05 | 0.980 | 0.312 | 0.192 | | | 0.0011 | Φ40×40 | |
| NCS AH 21309 | Middle Low Alloy | 0.701 | 0.039 | 2.06 | 0.013 | 0.042 | 0.065 | 0.026 | 0.003 | 0.022 | 0.094 | 0.0034 | 0.0041 | Φ40×40 | |
| NCS AH 21310 | Stainless Steel | 0.082 | 0.030 | 1.15 | 0.020 | 0.429 | 17.63 | 10.04 | 2.00 | 1.01 | 1.04 | | | Φ40×40 | |
| NCS AH 21311 | High Speed tool Steel | 0.856 | 0.005 | 0.312 | 0.017 | 0.33 | 3.93 | 0.048 | 4.83 | 0.261 | 1.90 | | | Φ40×40 | |
| NCS AH 21312 | High Manganese Steel | 0.297 | 0.117 | 16.24 | 0.033 | 0.48 | 0.69 | 0.43 | 0.506 | 0.208 | 0.23 | | | Φ40×40 | |
| NCS AH 21313 | High Speed tool Steel | 0.75 | 0.002 | 0.16 | 0.017 | 0.282 | 4.20 | 0.041 | 0.10 | 0.137 | 0.17 | | | Φ40×40 | |
| NCS AH 21314 | Stainless steel | 0.100 | 0.0022 | 19.56 | 0.0207 | 0.359 | 19.87 | 0.279 | 0.205 | 0.059 | | | | Φ40×40 | |
| | | Ti | Sn | Al _t | W | Co | As | Nb | Ta | Ca | Al | N | B* | | |
| NCS AH 20308 | Pure Iron | 0.001 | 0.007 | 0.250 | 0.001 | 0.003 | | | | 0.0005 | | | | | |
| NCS AH 20309 | Middle Low Alloy | | 0.017 | 0.107 | 0.193 | 0.010 | 0.017 | 0.313 | 0.098 | 0.0009 | | | | | |
| NCS AH 20310 | Stainless Steel | 0.472 | | 0.129 | 0.438 | 0.22 | | 0.520 | | | | | | | |
| NCS AH 20311 | High Speed tool Steel | 0.17 | | 0.36 | 6.25 | 4.86 | | | | | | | | | |
| NCS AH 20312 | High Manganese Steel | 0.045 | | 2.98 | 0.35 | 0.032 | | | | | | | | | |
| NCS AH 20313 | High Speed tool Steel | | 0.045 | | 17.99 | 0.010 | 0.027 | | | | | | | | |
| NCS AH 21314 | Stainless steel | | | | | 0.021 | | | | | 0.008 | 0.66 | <0.0005 | | |
| Number | Name | Chemical Composition(Percent) | | | | | | | | | | | | | Unit Size (mm) |
| | | C | Si | Mn | P | S | Cr | Ni | Mo | V | Als | Al _t | Cu | Co | |
| NCS AH 28302 | Stainless steel | 0.322 | 0.613 | 0.83 | 0.018 | 0.017 | 8.63 | 0.148 | 0.016 | 0.014 | 0.023 | 0.027 | 0.47 | 0.019 | Φ40×35 |
| NCS AH 28303 | Stainless steel | 0.329 | 0.397 | 0.433 | 0.018 | 0.027 | 11.95 | 2.66 | 0.026 | 0.016 | 0.0019 | 0.0073 | 0.08 | 0.057 | Φ40×35 |
| NCS AH 28304 | Stainless steel | 0.193 | 0.905 | 0.49 | 0.022 | 0.01 | 19.4 | 6.48 | 0.021 | 0.029 | 0.034 | 0.037 | 0.079 | 0.095 | Φ40×35 |
| NCS AH 28305 | Heat resisting alloy | 0.392 | 2.41 | 0.508 | 0.019 | 0.022 | 10.09 | 0.247 | 1.09 | 0.015 | 0.0031 | 0.0057 | 0.093 | 0.019 | Φ40×35 |
| NCS AH 28307 | Heat resisting alloy | 0.157 | 0.827 | 0.8 | 0.021 | 0.023 | 13.31 | 13.9 | 0.24 | 0.02 | 0.067 | 0.074 | 0.03 | 0.147 | Φ40×35 |
| NCS AH 28308 | Heat resisting alloy | 0.182 | 0.865 | 0.37 | 0.019 | 0.025 | 17.3 | 1.33 | 0.023 | 0.021 | 0.0025 | 0.0061 | 0.074 | 0.051 | Φ40×35 |
| NCS AH 28309 | Heat resisting alloy | 0.178 | 0.542 | 2.37 | 0.023 | 0.0084 | 22.71 | 16.2 | 0.0071 | 0.031 | 0.045 | 0.053 | 0.058 | 0.186 | Φ40×35 |
| NCS AH 28310 | Carbon steel | 0.162 | 0.21 | 0.373 | 0.019 | 0.015 | 0.129 | 0.137 | 0.024 | 0.0011 | 0.0018 | 0.0029 | 0.091 | 0.0071 | Φ40×35 |
| NCS AH 28311 | Alloy steel | 0.345 | 0.318 | 0.424 | 0.022 | 0.011 | 1.58 | 0.099 | 0.171 | 0.0034 | 0.807 | 0.824 | 0.116 | 0.0092 | Φ40×35 |
| NCS AH 28312 | Alloy steel | 0.21 | 0.385 | 1.295 | 0.013 | 0.0208 | 0.169 | 0.099 | 0.015 | 0.011 | 0.054 | 0.061 | 0.101 | 0.0064 | Φ40×35 |
| NCS AH 28313 | Alloy steel | 0.118 | 0.237 | 0.257 | 0.023 | 0.023 | 0.147 | 0.154 | 0.02 | 0.0023 | 0.101 | 0.106 | 0.354 | 0.0093 | Φ40×35 |
| NCS AH 28314 | Alloy steel | 0.397 | 1 | 0.701 | 0.013 | 0.012 | 1.91 | 1.29 | 0.446 | 0.377 | 0.01 | 0.012 | 0.091 | 0.021 | Φ40×35 |
| NCS AH 28315 | Alloy steel | 0.249 | 0.464 | 0.444 | 0.016 | 0.021 | 1.64 | 1.73 | 0.426 | 0.218 | 0.0042 | 0.0087 | 0.097 | 0.024 | Φ40×35 |
| NCS AH 28316 | Alloy steel | 0.384 | 0.862 | 0.583 | 0.014 | 0.012 | 2.06 | 1.32 | 0.382 | 0.35 | 0.014 | 0.018 | 0.095 | 0.021 | Φ40×35 |
| NCS AH 28317 | Q235 | 0.196 | 0.107 | 0.298 | 0.029 | 0.038 | 0.11 | 0.13 | 0.0041 | 0.0015 | 0.017 | 0.019 | 0.119 | 0.0063 | Φ40×35 |
| NCS AH 28318 | CrMo | 0.408 | 0.668 | 0.501 | 0.014 | 0.0013 | 1.51 | 0.115 | 0.112 | 0.0051 | 0.188 | 0.2 | 0.117 | 0.0083 | Φ40×35 |
| NCS AH 28319 | 16Mn | 0.178 | 0.247 | 1.37 | 0.025 | 0.026 | 0.144 | 0.126 | 0.0058 | 0.0017 | 0.069 | 0.074 | 0.11 | 0.0044 | Φ40×35 |
| NCS AH 28320 | 38CrMoAl | 0.436 | 0.207 | 0.495 | 0.016 | 0.026 | 1.51 | 0.127 | 0.182 | 0.0037 | 1.06 | 1.1 | 0.096 | 0.0085 | Φ40×35 |
| NCS AH 28321 | 38CrMoAl | 0.411 | 0.357 | 0.502 | 0.014 | 0.0013 | 1.52 | 0.118 | 0.112 | 0.0051 | 0.557 | 0.56 | 0.118 | 0.0084 | Φ40×35 |
| NCS AH 28322 | 60Si ₂ W | 0.582 | 1.72 | 1.03 | 0.024 | 0.02 | 0.301 | 0.304 | 0.017 | 0.0037 | 0.011 | 0.012 | 0.091 | 0.0091 | Φ40×35 |
| NCS AH 28323 | 60Si ₂ W | 0.615 | 1.99 | 0.868 | 0.025 | 0.036 | 0.095 | 0.119 | 0.019 | 0.0022 | 0.017 | 0.02 | 0.098 | 0.0056 | Φ40×35 |
| NCS AH 28324 | 4Cr10NiCuTi | 0.37 | 0.862 | 0.889 | 0.018 | 0.016 | 10.83 | 0.17 | 0.015 | 0.017 | 0.014 | 0.02 | 0.275 | 0.022 | Φ40×35 |
| NCS AH 28325 | 1Cr13 | 0.151 | 0.572 | 0.681 | 0.02 | 0.035 | 11.55 | 0.398 | 0.017 | 0.015 | 0.0048 | 0.015 | 0.078 | 0.034 | Φ40×35 |
| NCS AH 28326 | 2Cr13 | 0.207 | 0.472 | 0.594 | 0.02 | 0.026 | 14.27 | 0.867 | 0.026 | 0.021 | 0.0017 | 0.0064 | 0.077 | 0.039 | Φ40×35 |
| NCS AH 28327 | Cr18 | 0.433 | 0.693 | 0.933 | 0.019 | 0.014 | 18.52 | 0.176 | 0.013 | 0.028 | 0.011 | 0.015 | 0.095 | 0.034 | Φ40×35 |
| NCS AH 28328 | Cr21Ni5Ti | 0.129 | 0.97 | 0.599 | 0.048 | 0.012 | 22.53 | 6.01 | 0.013 | 0.037 | 0.144 | 0.148 | 0.106 | 0.089 | Φ40×35 |
| NCS AH 28329 | Cr23Ni18 | 0.124 | 1.19 | 0.934 | 0.021 | 0.017 | 22.23 | 18.25 | 0.0023 | 0.035 | 0.053 | 0.062 | 0.021 | 0.206 | Φ40×35 |

Section 11 Set-up Sample

1) Iron, Steel & Alloy (Disk)

| | | W | Ti | As | B | Sn | Sb | Zn | | | | | | |
|--------------|----------------------|-------------------------------|--------|---------|--------|--------|--------|--------|-------|-------|------|---------|------|-----------|
| NCS AH 28302 | Stainless steel | 0.004 | 0.076 | 0.0054 | 0.0002 | 0.0037 | 0.0018 | 0.0034 | | | | | | |
| NCS AH 28303 | Stainless steel | 0.0031 | 0.029 | 0.0049 | | 0.0049 | 0.0016 | 0.0018 | | | | | | |
| NCS AH 28304 | Stainless steel | 0.0052 | 0.206 | 0.0046 | | 0.0028 | 0.0015 | 0.0016 | | | | | | |
| NCS AH 28305 | Heat resisting alloy | 0.0065 | 0.0032 | 0.0054 | | 0.0047 | 0.0021 | 0.0009 | | | | | | |
| NCS AH 28307 | Heat resisting alloy | 2.75 | 0.0011 | 0.0041 | 0.0004 | 0.004 | 0.0004 | 0.005 | | | | | | |
| NCS AH 28308 | Heat resisting alloy | 0.0032 | 0.0011 | 0.0051 | | 0.004 | 0.0016 | 0.002 | | | | | | |
| NCS AH 28309 | Heat resisting alloy | 0.0034 | 0.051 | 0.0038 | | 0.0023 | 0.0006 | 0.0036 | | | | | | |
| NCS AH 28310 | Carbon steel | 0.0047 | 0.0005 | 0.0068 | 0.0002 | 0.0046 | 0.0019 | 0.0004 | | | | | | |
| NCS AH 28311 | Alloy steel | 0.0053 | 0.0036 | 0.0061 | 0.0003 | 0.0047 | 0.002 | 0.02 | | | | | | |
| NCS AH 28312 | Alloy steel | 0.161 | 0.0009 | 0.0056 | 0.0003 | 0.0054 | 0.0019 | 0.0006 | | | | | | |
| NCS AH 28313 | Alloy steel | 0.013 | 0.109 | 0.0067 | 0.0003 | 0.0048 | 0.0023 | 0.0023 | | | | | | |
| NCS AH 28314 | Alloy steel | 1.2 | 0.081 | 0.0064 | 0.0013 | 0.0057 | 0.002 | 0.0014 | | | | | | |
| NCS AH 28315 | Alloy steel | 0.583 | 0.043 | 0.0087 | 0.0003 | 0.021 | 0.0056 | 0.0014 | | | | | | |
| NCS AH 28316 | Alloy steel | 1.44 | 0.061 | 0.0075 | 0.0014 | 0.006 | 0.0021 | 0.0016 | | | | | | |
| NCS AH 28317 | Q235 | 0.0017 | 0.001 | | | | | | | | | | | |
| NCS AH 28318 | CrMo | 0.0064 | 0.021 | | | | | | | | | | | |
| NCS AH 28319 | 16Mn | 0.0066 | 0.002 | | | | | | | | | | | |
| NCS AH 28320 | 38CrMoAl | 0.0069 | 0.0023 | | | | | | | | | | | |
| NCS AH 28321 | 38CrMoAl | 0.005 | 0.0066 | | | | | | | | | | | |
| NCS AH 28322 | 60Si ₂ W | 1.37 | 0.0037 | | | | | | | | | | | |
| NCS AH 28323 | 60Si ₂ W | 0.682 | 0.0063 | | | | | | | | | | | |
| NCS AH 28324 | 4Cr10NiCuTi | 0.0053 | 0.06 | | | | | | | | | | | |
| NCS AH 28325 | 1Cr13 | 0.0049 | 0.036 | | | | | | | | | | | |
| NCS AH 28326 | 2Cr13 | 0.0044 | 0.01 | | | | | | | | | | | |
| NCS AH 28327 | Cr18 | 0.0052 | 0.043 | | | | | | | | | | | |
| NCS AH 28328 | Cr21Ni5Ti | 0.011 | 0.853 | | | | | | | | | | | |
| NCS AH 28329 | Cr23Ni18 | 0.003 | 0.011 | | | | | | | | | | | |
| | | Chemical Composition(Percent) | | | | | | | | | | | | Unit Size |
| Number | Name | C | S | Mn | P | Si | Cr | Ni | Mo | Cu | V | B | Nb | (mm) |
| NCS AH 93303 | Low Alloy Steel | 0.120 | 0.014 | 0.258 | 0.013 | 0.120 | 0.022 | 0.034 | | 0.122 | | | | Φ35×50 |
| NCS AH 93304 | Low Alloy Steel | 0.172 | 0.060 | 0.400 | 0.018 | 0.143 | 0.033 | 0.041 | | 0.110 | | | | Φ35×50 |
| NCS AH 93305 | Low Alloy Steel | 0.251 | 0.022 | 0.518 | 0.023 | 0.280 | 0.041 | 0.042 | | 0.110 | | | | Φ35×50 |
| NCS AH 93306 | Low Alloy Steel | 0.310 | 0.031 | 0.870 | 0.051 | 0.480 | 0.280 | 0.120 | | 0.355 | | | | Φ35×50 |
| NCS AH 93307 | Low Alloy Steel | 0.458 | 0.017 | 0.582 | 0.022 | 0.188 | 0.036 | 0.042 | | 0.132 | | | | Φ35×50 |
| NCS AH 93308 | Low Alloy Steel | 0.512 | 0.010 | 0.690 | 0.022 | 0.352 | 0.077 | 0.060 | | 0.154 | | | | Φ35×50 |
| NCS AH 93309 | Low Alloy Steel | 0.375 | 0.047 | 1.84 | 0.053 | 0.770 | 0.290 | 0.290 | | 0.225 | | | | Φ35×50 |
| NCS AH 93310 | Low Alloy Steel | 0.182 | 0.036 | 1.23 | 0.028 | 0.460 | 0.045 | 0.040 | | 0.128 | | | | Φ35×50 |
| NCS AH 93323 | Line Pipe Steel | 0.042 | 0.0028 | 1.582 | 0.0078 | 0.187 | 0.04 | 0.175 | 0.272 | 0.172 | 0.04 | 0.00019 | 0.03 | Φ35×50 |
| | | Ti | Al | Ca | | | | | | | | | | |
| NCS AH 93323 | Low Alloy Steel | 0.024 | 0.03 | 0.00034 | | | | | | | | | | |

Section 11 Set-up Sample

2) Nonferrous Metal

| Number | Name | Chemical Composition(percent) | | | | | | | | | | | Unit Size (mm) | | | |
|-------------|----------------|-------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|---|-------|-------------------|--|--|--------|
| | | Cu | Mg | Mn | Fe | Si | Zn | Ti | Ni | Zr | B | V | | | | |
| NCSAH 49301 | Aluminum Alloy | 0.096 | 0.252 | 0.076 | 0.188 | 7.30 | 0.078 | 0.146 | | | | | | | | Φ62×30 |
| NCSAH 49302 | Aluminum Alloy | 0.495 | 0.029 | 0.487 | 0.769 | 11.30 | 0.253 | | | | | | | | | Φ62×30 |
| NCSAH 49303 | Aluminum Alloy | 3.42 | 0.169 | 0.314 | 0.872 | 8.27 | 0.906 | | | | | | | | | Φ62×30 |
| NCSAH 49304 | Aluminum Alloy | 0.227 | 1.45 | 0.066 | 0.678 | 10.24 | 0.170 | | | | | | | | | Φ62×30 |
| NCSAH 49305 | Aluminum Alloy | 3.87 | 1.77 | 0.680 | 0.419 | 0.314 | 0.272 | 0.078 | 0.036 | | | | | | | Φ62×30 |
| NCSAH 49306 | Aluminum Alloy | 4.81 | 0.036 | 0.718 | 0.237 | 0.233 | 0.161 | 0.230 | | | | | | | | Φ62×30 |
| NCSAH 49307 | Aluminum Alloy | 3.99 | | | 0.204 | 7.18 | | | | 0.149 | | | | | | Φ62×30 |
| NCSAH 49308 | Aluminum Alloy | 6.01 | 0.0171 | | 0.213 | 0.091 | 0.020 | 0.107 | | | | 0.083 | 0.157 | | | Φ62×30 |

Section 12 Solution Standard

| Number | Name | Nomonal Composition($\mu\text{g/mL}$) | Medium | Unit Size (mL) |
|-------------|------------------------------|---|--------------------------------------|----------------|
| NCSAH 11401 | Lithium | 1000 | HCl(10%) | 50 |
| NCSAH 11402 | Beryllium | 1000 | HNO ₃ (10%) | 50 |
| NCSAH 11403 | Boron | 1000 | H ₂ O | 50 |
| NCSAH 11404 | Sodium | 1000 | H ₂ O | 50 |
| NCSAH 11405 | Magnesium | 1000 | HCl(5%) | 50 |
| NCSAH 11406 | Aluminum | 1000 | HCl(10%) | 50 |
| NCSAH 11407 | Silicon | 1000 | Na ₂ CO ₃ | 50 |
| NCSAH 11408 | Phosphorus(NH ₄) | 1000 | H ₂ O | 50 |
| NCSAH 11409 | Phosphorus(K) | 1000 | H ₂ O | 50 |
| NCSAH 11410 | Sulfur | 1000 | H ₂ O | 50 |
| NCSAH 11411 | Potassium | 1000 | H ₂ O | 50 |
| NCSAH 11412 | Calcium | 1000 | HCl(5%) | 50 |
| NCSAH 11413 | Scandium | 1000 | HNO ₃ (20%) | 50 |
| NCSAH 11414 | Titanium | 1000 | H ₂ SO ₄ (10%) | 50 |
| NCSAH 11415 | Vanadium | 1000 | H ₂ SO ₄ (10%) | 50 |
| NCSAH 11416 | Vanadium | 1000 | HCl(10%) | 50 |
| NCSAH 11417 | Chromium | 1000 | HCl(10%) | 50 |
| NCSAH 11418 | Manganese | 1000 | H ₂ SO ₄ (5%) | 50 |
| NCSAH 11419 | Manganese | 1000 | HNO ₃ (10%) | 50 |
| NCSAH 11420 | Iron | 1000 | HCl(10%) | 50 |
| NCSAH 11421 | Cobalt | 1000 | HNO ₃ (5%) | 50 |
| NCSAH 11422 | Nickel | 1000 | HNO ₃ (5%) | 50 |
| NCSAH 11423 | Copper | 1000 | H ₂ SO ₄ (5%) | 50 |
| NCSAH 11424 | Copper | 1000 | HCl(10%) | 50 |
| NCSAH 11425 | Zinc | 1000 | HCl(10%) | 50 |
| NCSAH 11426 | Gallium | 1000 | HCl(10%) | 50 |
| NCSAH 11427 | Arsenic | 1000 | H ₂ SO ₄ (5%) | 50 |
| NCSAH 11428 | Arsenic | 1000 | HCl(10%) | 50 |
| NCSAH 11429 | Selenium | 1000 | HCl(10%) | 50 |
| NCSAH 11430 | Rubidium | 1000 | HNO ₃ (5%) | 50 |
| NCSAH 11431 | Strontium | 1000 | H ₂ O | 50 |
| NCSAH 11432 | Yttrium | 1000 | HCl(10%) | 50 |
| NCSAH 11433 | Zirconium | 1000 | HCl(10%) | 50 |
| NCSAH 11434 | Niobium | 1000 | HF(5%) | 50 |
| NCSAH 11435 | Molybdenum | 1000 | H ₂ SO ₄ (5%) | 50 |
| NCSAH 11436 | Ruthenium | 1000 | HCl(10%) | 50 |
| NCSAH 11437 | Rhodium | 1000 | HNO ₃ (10%) | 50 |
| NCSAH 11438 | Palladium | 1000 | HCl(10%) | 50 |
| NCSAH 11439 | Silver | 1000 | HNO ₃ (5%) | 50 |
| NCSAH 11440 | Cadmium | 1000 | HCl(10%) | 50 |
| NCSAH 11441 | Indium | 1000 | HCl(10%) | 50 |
| NCSAH 11442 | Tin | 1000 | HCl(20%) | 50 |
| NCSAH 11443 | Antimony | 1000 | H ₂ SO ₄ (25%) | 50 |
| NCSAH 11444 | Tellurium | 1000 | HCl(10%) | 50 |
| NCSAH 11445 | Cesium | 1000 | HNO ₃ (5%) | 50 |
| NCSAH 11446 | Beryllium | 1000 | HCl(10%) | 50 |
| NCSAH 11447 | Lanthanum | 1000 | HCl(10%) | 50 |
| NCSAH 11448 | Cerium | 1000 | HNO ₃ (10%) | 50 |
| NCSAH 11449 | Praseodymium | 1000 | HCl(10%) | 50 |
| NCSAH 11450 | Neodymium | 1000 | HCl(10%) | 50 |

Section 12 Solution Standard

| Number | Name | Nomonal Composition($\mu\text{g}/\text{mL}$) | Medium | Unit Size (mL) |
|-------------|------------------------------|--|--------------------------------------|----------------|
| NCSAH 11401 | Lithium | 1000 | HCl(10%) | 50 |
| NCSAH 11402 | Beryllium | 1000 | HNO ₃ (10%) | 50 |
| NCSAH 11403 | Boron | 1000 | H ₂ O | 50 |
| NCSAH 11404 | Sodium | 1000 | H ₂ O | 50 |
| NCSAH 11405 | Magnesium | 1000 | HCl(5%) | 50 |
| NCSAH 11406 | Aluminum | 1000 | HCl(10%) | 50 |
| NCSAH 11407 | Silicon | 1000 | Na ₂ CO ₃ | 50 |
| NCSAH 11408 | Phosphorus(NH ₄) | 1000 | H ₂ O | 50 |
| NCSAH 11409 | Phosphorus(K) | 1000 | H ₂ O | 50 |
| NCSAH 11410 | Sulfur | 1000 | H ₂ O | 50 |
| NCSAH 11411 | Potassium | 1000 | H ₂ O | 50 |
| NCSAH 11412 | Calcium | 1000 | HCl(5%) | 50 |
| NCSAH 11413 | Scandium | 1000 | HNO ₃ (20%) | 50 |
| NCSAH 11414 | Titanium | 1000 | H ₂ SO ₄ (10%) | 50 |
| NCSAH 11415 | Vanadium | 1000 | H ₂ SO ₄ (10%) | 50 |
| NCSAH 11416 | Vanadium | 1000 | HCl(10%) | 50 |
| NCSAH 11417 | Chromium | 1000 | HCl(10%) | 50 |
| NCSAH 11418 | Manganese | 1000 | H ₂ SO ₄ (5%) | 50 |
| NCSAH 11419 | Manganese | 1000 | HNO ₃ (10%) | 50 |
| NCSAH 11420 | Iron | 1000 | HCl(10%) | 50 |
| NCSAH 11421 | Cobalt | 1000 | HNO ₃ (5%) | 50 |
| NCSAH 11422 | Nickel | 1000 | HNO ₃ (5%) | 50 |
| NCSAH 11423 | Copper | 1000 | H ₂ SO ₄ (5%) | 50 |
| NCSAH 11424 | Copper | 1000 | HCl(10%) | 50 |
| NCSAH 11425 | Zinc | 1000 | HCl(10%) | 50 |
| NCSAH 11426 | Gallium | 1000 | HCl(10%) | 50 |
| NCSAH 11427 | Arsenic | 1000 | H ₂ SO ₄ (5%) | 50 |
| NCSAH 11428 | Arsenic | 1000 | HCl(10%) | 50 |
| NCSAH 11429 | Selenium | 1000 | HCl(10%) | 50 |
| NCSAH 11430 | Rubidium | 1000 | HNO ₃ (5%) | 50 |
| NCSAH 11431 | Strontium | 1000 | H ₂ O | 50 |
| NCSAH 11432 | Yttrium | 1000 | HCl(10%) | 50 |
| NCSAH 11433 | Zirconium | 1000 | HCl(10%) | 50 |
| NCSAH 11434 | Niobium | 1000 | HF(5%) | 50 |
| NCSAH 11435 | Molybdenum | 1000 | H ₂ SO ₄ (5%) | 50 |
| NCSAH 11436 | Ruthenium | 1000 | HCl(10%) | 50 |
| NCSAH 11437 | Rhodium | 1000 | HNO ₃ (10%) | 50 |
| NCSAH 11438 | Palladium | 1000 | HCl(10%) | 50 |
| NCSAH 11439 | Silver | 1000 | HNO ₃ (5%) | 50 |
| NCSAH 11440 | Cadmium | 1000 | HCl(10%) | 50 |
| NCSAH 11441 | Indium | 1000 | HCl(10%) | 50 |
| NCSAH 11442 | Tin | 1000 | HCl(20%) | 50 |
| NCSAH 11443 | Antimony | 1000 | H ₂ SO ₄ (25%) | 50 |
| NCSAH 11444 | Tellurium | 1000 | HCl(10%) | 50 |
| NCSAH 11445 | Cesium | 1000 | HNO ₃ (5%) | 50 |
| NCSAH 11446 | Beryllium | 1000 | HCl(10%) | 50 |
| NCSAH 11447 | Lanthanum | 1000 | HCl(10%) | 50 |
| NCSAH 11448 | Cerium | 1000 | HNO ₃ (10%) | 50 |
| NCSAH 11449 | Praseodymium | 1000 | HCl(10%) | 50 |
| NCSAH 11450 | Neodymium | 1000 | HCl(10%) | 50 |

Section 12 Solution Standard

| Number | Name | Nominal Consistence($\mu\text{g/mL}$) | Medium | Unit Size (mL) | | | | | |
|-------------|-------------------|---|--------------------------------------|-------------------------------|--|-------------------|-------|--|-------------------|
| NCSAH 11451 | Samarium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11452 | Europium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11453 | Gadolinium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11454 | Terbium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11455 | Dysprosium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11456 | Holmium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11457 | Erbium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11458 | Thulium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11459 | Yttrium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11460 | Latetium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11461 | Hafnium | 1000 | H ₂ SO ₄ (10%) | 50 | | | | | |
| NCSAH 11462 | Tantalum | 1000 | HF(20%) | 50 | | | | | |
| NCSAH 11463 | Tungsten | 1000 | NaOH(2%) | 50 | | | | | |
| NCSAH 11464 | Rhenium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11465 | Osmium | 1000 | HCl(20%) | 50 | | | | | |
| NCSAH 11466 | Iridium | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11467 | Platinum | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11468 | Gold | 1000 | HCl(10%) | 50 | | | | | |
| NCSAH 11469 | Mercury | 1000 | HNO ₃ (5%) | 50 | | | | | |
| NCSAH 11470 | Thallium | 1000 | HNO ₃ (20%) | 50 | | | | | |
| NCSAH 11471 | Lead | 1000 | HNO ₃ (10%) | 50 | | | | | |
| NCSAH 11472 | Bismuth | 1000 | HNO ₃ (10%) | 50 | | | | | |
| NCSAH 11473 | Germanium | 1000 | H ₂ O | 50 | | | | | |
| Number | Name | Nominal Consistence($\mu\text{g/g}$) | Unit Size (in mL) | | | | | | |
| NCSAH 76401 | Lead in Water | 1.00 | 20or100 | | | | | | |
| NCSAH 76402 | Cadmium in Water | 0.100 | 20or100 | | | | | | |
| NCSAH 76403 | Mercury in Water | 0.010 | 20or50 | | | | | | |
| NCSAH 76404 | Fluoride in Water | 1.00 | 100 | | | | | | |
| NCSAH 76404 | Arsenic in Water | 0.50 | 20or100 | | | | | | |
| Number | Name | Cl ⁻ | NO ₃ ⁻ | SO ₄ ²⁻ | Nominal Consistence($\mu\text{g/g}$) | Unit Size (in mL) | | | |
| NCSAH 76406 | Anions in Water | 22.0 | 4.50 | 38.0 | 1000 | 20or100 | | | |
| Number | Name | Cd | Pb | Cu | Cr | Zn | Ni | Nominal Consistence($\mu\text{g/g}$) | Unit Size (in mL) |
| NCSAH 76407 | Matal in Water | 0.100 | 1.00 | 1.00 | 0.500 | 5.00 | 0.500 | | 20or100 |
| NCSAH 76408 | Matal in Water | 10.0* | 50* | 30* | 50* | 90* | 60* | | 20or100 |

* Unit Certified Value of the element is ng/g.

| Number | Name | Concentration($\mu\text{g/g}$) | Unit Size (in mL) |
|-------------|-------------------|----------------------------------|-------------------|
| NCSAH 76409 | Silver in Water | 1000 | 20 |
| NCSAH 76410 | Arsenic in Water | 1000 | 20 |
| NCSAH 76411 | Cadmium in Water | 1000 | 20 |
| NCSAH 76412 | Cobalt in Water | 1000 | 20 |
| NCSAH 76413 | Chromium in Water | 1000 | 20 |
| NCSAH 76414 | Copper in Water | 1000 | 20 |
| NCSAH 76415 | Iron in Water | 1000 | 20 |
| NCSAH 76416 | Mercury in Water | 1000 | 20 |
| NCSAH 76417 | Nicked in Water | 1000 | 20 |
| NCSAH 76418 | Lead in Water | 1000 | 20 |
| NCSAH 76419 | Zinc in Water | 1000 | 20 |

Section 12 Solution Standard

| Number | Name | Mass Fraction of Substance(10^{-6}) | Unit Size (in mL) |
|--------------|--|--|----------------------|
| NCS AH 76423 | Gold Solution | 100.0 | 20 |
| NCS AH 76424 | Lanthanum Solution | 982.3 | 20 |
| NCS AH 76425 | Cerium Solution | 951.5 | 20 |
| NCS AH 76426 | Samarium Solution | 982.3 | 20 |
| NCS AH 76427 | Europium Solution | 982.3 | 20 |
| NCS AH 76428 | Ytterbium Solution | 982.3 | 20 |
| NCS AH 76429 | Lutetium Solution | 982.3 | 20 |
| NCS AH 76430 | Yttrium Solution | 982.3 | 20 |
| Number | Name | Range Concentration(mg/L) | Unit Size (mL) |
| NCS AH 85401 | Arsenic | 0.1~0.8 | 20 |
| NCS AH 85402 | Ammonia Nitrogen | 0.5~5 | 20 |
| NCS AH 85403 | Nitrite Nitrogen | 0.05~0.2 | 20 |
| NCS AH 85404 | Nitrite Nitrogen | 0.5~5 | 20 |
| NCS AH 85405 | Cu,Pb,Zn,Cd,Ni,Cr | Cu0.5~2,Pb0.5~2,Zn0.1~1,Cd0.1~1,Ni0.1~2,Cr0.1~2 | 20 |
| NCS AH 85406 | F ⁻ ,Cl ⁻ ,SO ₄ ²⁻ | F0.2~5,Cl0.5~100,SO ₄ ²⁻ 5~100 | 20 |
| NCS AH 85407 | Copper | 0.01~2 | 20 |
| NCS AH 85408 | Lead | 0.01~2 | 20 |
| NCS AH 85409 | Zinc | 0.01~2 | 20 |
| NCS AH 85140 | Cadmium | 0.01~2 | 20 |
| NCS AH 85141 | Nickel | 0.1~2 | 20 |
| NCS AH 85412 | Chromium | 0.1~2 | 20 |
| NCS AH 85413 | Fluorine | 0.2~5 | 20 |
| NCS AH 85414 | Chlorine | 0.01~100 | 20 |
| NCS AH 85415 | Sulfate | 0.1~100 | 20 |
| NCS AH 85416 | Mercury | 6~20(μ g/L) | 20 |
| NCS AH 85417 | Total Cyanide | 0.05~1 | 20 |
| NCS AH 85418 | Fe,Mn | 0.01~2 | 20 |
| NCS AH 85419 | K,Na,Ca,Mg | K0.1~0.5,Na0.1~5,Ca0.1~10,Mg0.1~5 | 20 |
| NCS AH 85420 | Potassium | 0.1~5 | 20 |
| NCS AH 85421 | Sodium | 0.1~5 | 20 |
| NCS AH 85422 | Calcium | 0.1~10 | 20 |
| NCS AH 85423 | Magneium | 0.2~5 | 20 |
| NCS AH 85424 | Iron | 0.1~5 | 20 |
| NCS AH 85425 | Manganese | 0.1~5 | 20 |
| NCS AH 85426 | Total Nitrogen | 1~8 | 20 |
| NCS AH 85427 | Vanadium | 0.1~1 | 20 |
| NCS AH 85428 | Cobalt | 0.05~1 | 20 |
| NCS AH 85429 | Selenium | 0.01~1 | 20 |
| NCS AH 85430 | Molybdenum | 0.05~1 | 20 |
| NCS AH 85431 | Cr ⁶⁺ | 0.01~5 | 20 |
| NCS AH 85432 | Phosphrate | 0.05~5 | 20 |
| NCS AH 85433 | Total Phosphrous | 0.05~5 | 20 |
| NCS AH 85434 | Barium | 0.2~2 | 20 |
| NCS AH 85435 | Silver | 0.2~1 | 20 |
| NCS AH 85436 | Antimony | 0.5~2 | 20 |
| NCS AH 85437 | Aluminum | 0.05~2 | 20 |
| NCS AH 85438 | Beryllium | 5~20(μ g/L) | 20 |
| NCS AH 85439 | Lithium | 0.2~2.0 | 20 |
| NCS AH 85440 | Strontium | 0.3~10 | 20 |
| NCS AH 85441 | Bromine | 0.5~3 | 20 |

Section 13 Accelerator And Others

| Number | Name | Type | Grain Size(mesh) | Chemical Composition(Percent) | | | Net Weighn(g) |
|-------------|----------------------|------|------------------|-------------------------------|---------|---------|---------------|
| | | | | Tap Density | C, % | S, % | |
| NCS NC 1111 | Tungsten Accelerator | T1 | 12~18,18~45 | 9.3~9.5 | ≤0.0008 | ≤0.0005 | 3000 |
| NCS NC 1112 | Tungsten Accelerator | T2 | 12~18,18~45 | 6.0~6.5 | ≤0.0008 | ≤0.0003 | 2000 |
| NCS NC 1113 | Tungsten Accelerator | T3 | 12~20 | 6.0~6.5 | ≤0.0008 | ≤0.0003 | 2000 |
| NCS NC 1114 | Tungsten Accelerator | T4 | 20~40 | 6.0~6.5 | ≤0.0008 | ≤0.0003 | 2000 |

| Number | Name | F=1, Δ T=0 | Melting Point (°C) | | | Unit Size (in g) |
|---------------|---------------------|------------|---------------------|------------|---|---------------------|
| | | | 0.20°C /min | 1.0°C /min | | |
| NCS AS 93101b | P-Nitrotoluene | 51.64 | 52.09 | 52.66 | 2 | |
| NCS AS 93102b | Naphthalene | 80.08 | 80.50 | 81.01 | 2 | |
| NCS AS 93103b | Benzoic acid | 122.35 | 122.85 | 123.37 | 2 | |
| NCS AS 93104b | 1.6-Adipic acid | 151.62 | 152.51 | 153.12 | 2 | |
| NCS AS 93105a | Anisic acid | 183.28 | 184.05 | 184.64 | 2 | |
| NCS AS 93106 | Anthracene | 215.88 | 216.32 | 216.92 | 2 | |
| NCS AS 93107b | P-Nitrobenzoic acid | 239.58 | 240.57 | 241.33 | 2 | |
| NCS AS 93108b | Anthraquinone | 284.55 | 284.98 | 285.36 | 2 | |

| Number | Name | Melting Point (°C) | | | Unit Size (in g) |
|--------------|----------------------|---------------------|------------|------------|---------------------|
| | | 0.2°C /min | 0.5°C /min | 1.0°C /min | |
| NCS AS 93109 | Azobenzol | 68.34 | 68.50 | 68.60 | 2 |
| NCS AS 93110 | Methylprotocatechuic | 81.85 | 82.12 | 82.33 | 2 |
| NCS AS 93111 | Acetanil | 114.55 | 114.74 | 115.00 | 2 |
| NCS AS 93112 | P-Acetophenetidine | 134.96 | 135.08 | 135.23 | 2 |
| NCS AS 93113 | Albexan | 164.70 | 165.04 | 165.16 | 2 |
| NCS AS 93114 | Amber acid | 184.02 | 184.90 | 185.97 | 2 |
| NCS AS 93115 | Sulfadimidine | 198.32 | 198.60 | 198.71 | 2 |
| NCS AS 93116 | Cyanoguanidine | 208.62 | 209.38 | 210.16 | 2 |
| NCS AS 93117 | Saccharin | 228.41 | 228.65 | 228.84 | 2 |
| NCS AS 93118 | Coffeine | 236.26 | 236.51 | 236.60 | 2 |
| NCS AS 93119 | Chocolax | 261.43 | 261.67 | 262.61 | 2 |