

BRAMMER STANDARD ONLINE CATALOG-COMBUSTION MATERIALS

C, S, O, N IN IRON AND STEEL, CHART 1 of 4

= class, 1 = CRM and 2 = RM analysis in mass % 34, 17025 = ISO

| # | Number | Carbon | Sulfur | Oxygen | Nitrogen | Units |
|---|--------------|--------|--------|--------|----------|-------|
| 1 | AR 510-513A | 2.41 | 0.091 | . | . | 250 g |
| 1 | AR 893-1121Q | 1.59 | 0.0012 | . | . | 454 g |
| 1 | JSS 202-2 | 1.443 | . | . | . | 150 g |
| 1 | JSS 202-1 | 1.386 | . | . | . | 150 g |
| 1 | NH M02 | 1.34 | 0.007 | . | . | 150 g |
| 1 | NCS NS18016 | 1.19 | 0.0080 | . | . | 100 g |
| 1 | Y 31916 | 1.19 | 0.0080 | . | . | 100 g |
| 1 | ECRM 268-1C | 1.134 | 0.0154 | . | 2.03 | 100 g |
| 1 | NCS NS18015 | 1.09 | 0.018 | . | . | 100 g |
| 1 | Y 31915 | 1.09 | 0.018 | . | . | 100 g |
| 1 | JSS 208-4 | 1.017 | . | . | . | 150 g |
| 1 | DSZU CA02A | 1.03 | 0.0021 | . | 0.0030 | 150 g |
| 2 | KMS HCS-002 | 1.013 | 0.123 | . | . | 100 g |
| 1 | JSS 208-3 | 0.998 | . | . | . | 150 g |
| 1 | DSZU CX010a | 0.993 | 0.0203 | . | . | 200 g |
| 1 | AR 889-419J | 0.928 | 0.0020 | . | . | 454 g |
| 1 | NCS NS18014 | 0.990 | 0.0041 | . | . | 100 g |
| 1 | Y 31914 | 0.990 | 0.0041 | . | . | 100 g |
| 2 | CZ 2008A | 0.977 | 0.0091 | . | 0.0066 | 250 g |
| 1 | TH 1006-4 | 0.952 | 0.0111 | . | 0.0046 | 100 g |
| 1 | AR 953-421G | 0.948 | 0.0010 | . | 0.0044 | 150 g |
| 2 | SAG 0703 | 0.924 | 0.0041 | 17025 | 0.0070 | 100 g |
| 1 | NCS NS18013 | 0.890 | 0.022 | . | . | 100 g |
| 1 | Y 31913 | 0.890 | 0.022 | . | . | 100 g |
| 1 | VS U13/4 | 0.888 | 0.0070 | . | . | 100 g |
| 1 | AR 885-520Z | 0.820 | 0.0055 | . | . | 454 g |
| 2 | SAG 0704 | 0.818 | 0.0040 | 17025 | 0.0040 | 100 g |
| 1 | NCS NS13026 | 0.81 | . | . | . | 100 g |
| 1 | NM 505 | 0.79 | 0.006 | . | . | 100 g |
| 1 | AR 875-723B | 0.787 | 0.015 | . | . | 454 g |
| 1 | AR 886-319H | 0.729 | 0.022 | . | . | 454 g |
| 1 | TH 1027-2 | 0.726 | 0.0092 | . | 0.003 | 100 g |
| 1 | NCS NS13025 | 0.725 | . | . | . | 100 g |
| 1 | IPT 60A | 0.715 | 0.012 | . | . | 100 g |
| 2 | SAG 0709 | 0.704 | 0.0064 | 17025 | 0.0030 | 100 g |
| 1 | NCS NS11010 | 0.703 | 0.010 | . | . | 50 g |
| 1 | ECRM 049-1 | 0.701 | 0.0040 | . | 0.0031 | 100 g |
| 2 | CZ 2007A | 0.684 | 0.0106 | . | 0.0128 | 250 g |
| 1 | AR 874-1119A | 0.658 | 0.0108 | . | . | 454 g |
| 1 | NCS NS18012 | 0.610 | 0.0095 | . | . | 100 g |
| 1 | Y 31912 | 0.610 | 0.0095 | . | . | 100 g |
| 1 | ECRM 079-2 | 0.596 | 0.192 | . | 0.0074 | 100 g |
| 1 | NCS NS13024 | 0.59 | . | . | . | 100 g |
| 1 | SRM 2160 | 0.584 | 0.012 | . | . | 200 g |
| 2 | BS CSN 2-2 | 0.548 | 0.028 | . | 0.076 | 500 g |
| 1 | AR 894-416B | 0.544 | 0.0103 | . | . | 454 g |
| 1 | NCS NS18011 | 0.543 | 0.012 | . | . | 100 g |
| 1 | Y 31911 | 0.543 | 0.012 | . | . | 100 g |
| 1 | NCS NS28027 | 0.523 | 0.017 | . | . | 100 g |
| 1 | NCS NS93011 | 0.512 | 0.0095 | . | . | 100 g |
| 1 | IPT 59A | 0.495 | 0.018 | . | . | 100 g |
| 1 | AR 948-821A | 0.492 | 0.079 | . | 0.0093 | 150 g |
| 1 | NCS NS13005 | 0.485 | 0.024 | . | . | 100 g |
| 1 | NCS NS13023 | 0.48 | . | . | . | 100 g |
| 1 | IARM 259A | 0.479 | 0.0007 | 0.0014 | 0.0077 | 100 g |
| 2 | BS CSN 2-1 | 0.476 | 0.034 | . | 0.064 | 270 g |
| 1 | AR 884-420U | 0.472 | 0.0121 | . | . | 454 g |
| 1 | AR 873-523V | 0.470 | 0.012 | . | . | 454 g |
| 1 | NCS NS28029 | 0.465 | 0.020 | . | . | 100 g |
| 1 | NCS NS28005 | 0.462 | 0.0096 | . | . | 100 g |
| 2 | CZ 2006A | 0.461 | 0.0172 | . | 0.0066 | 250 g |
| 1 | AR 952-1120N | 0.455 | 0.029 | . | 0.0095 | 150 g |
| 1 | NCS NS18010 | 0.455 | 0.019 | . | . | 100 g |
| 1 | Y 31910 | 0.455 | 0.019 | . | . | 100 g |
| 2 | DH E2184 | 0.4433 | 0.0152 | . | . | 50 g |

C, S, O, N IN IRON AND STEEL, CHART 2 of 4

= class, 1 = CRM and 2 = RM analysis in mass % 34, 17025 = ISO

| # | Number | Carbon | Sulfur | Oxygen | Nitrogen | Units |
|---|--------------|--------|--------|--------|----------|-------|
| 2 | SAG 0707 | 0.435 | 0.1965 | 17025 | 0.0064 | 100 g |
| 1 | AR 956-320P | 0.430 | 0.261 | . | 0.0069 | 150 g |
| 1 | ECRM 058-2C | 0.424 | 0.1712 | . | 0.0107 | 100 g |
| 1 | AR 954-218B | 0.417 | 0.027 | . | 0.0083 | 150 g |
| 1 | NCS NS28004 | 0.416 | 0.022 | . | . | 100 g |
| 1 | NCS NS18009 | 0.415 | 0.020 | . | . | 100 g |
| 1 | Y 31909 | 0.415 | 0.020 | . | . | 100 g |
| 1 | NCS NS11088 | 0.411 | 0.0040 | . | . | 100 g |
| 2 | DH E2335 | 0.4043 | 0.0626 | . | 0.0007 | 50 g |
| 2 | DH E23-331 | 0.3886 | 0.0547 | . | . | 50 g |
| 1 | AR 947-620B | 0.385 | 0.104 | . | 0.0103 | 150 g |
| 1 | NCS NS18008 | 0.376 | 0.028 | . | . | 100 g |
| 1 | Y 31908 | 0.376 | 0.028 | . | . | 100 g |
| 1 | NCS NS93012 | 0.375 | 0.046 | . | . | 100 g |
| 1 | NCS NS13022 | 0.37 | . | . | . | 100 g |
| 2 | CZ 2005A | 0.358 | 0.0250 | . | 0.0081 | 250 g |
| 1 | NCS NS93005 | 0.357 | 0.018 | . | . | 100 g |
| 2 | SAG 0706 | 0.347 | 0.0245 | 17025 | 0.0098 | 100 g |
| 1 | NCS NS28025a | 0.330 | 0.024 | . | . | 100 g |
| 1 | NCS NS11003 | 0.322 | 0.020 | . | . | 150 g |
| 1 | IPT 58A | 0.316 | 0.021 | . | . | 120 g |
| 1 | NCS NS18007 | 0.312 | 0.026 | . | . | 100 g |
| 1 | Y 31907 | 0.312 | 0.026 | . | . | 100 g |
| 1 | NCS NS93009 | 0.310 | 0.031 | . | . | 100 g |
| 1 | JSS 252-4 | 0.295 | 0.0404 | . | . | 150 g |
| 1 | NCS NS93004 | 0.293 | 0.040 | . | . | 100 g |
| 1 | NCS NS18006 | 0.282 | 0.033 | . | . | 100 g |
| 1 | Y 31906 | 0.282 | 0.033 | . | . | 100 g |
| 1 | AR 895-621V | 0.274 | 0.0216 | . | . | 454 g |
| 2 | SAG 0708 | 0.257 | 0.0014 | 17025 | . | 100 g |
| 1 | NCS NS11011 | 0.235 | 0.039 | . | . | 100 g |
| 1 | NCS NS93008c | 0.233 | 0.030 | . | . | 100 g |
| 1 | VS U19/2 | 0.233 | 0.030 | . | . | 100 g |
| 1 | AR 883-719C | 0.216 | 0.0183 | . | . | 454 g |
| 1 | NCS NS13021 | 0.21 | . | . | . | 100 g |
| 1 | NCS NS18005 | 0.204 | 0.022 | . | . | 100 g |
| 1 | Y 31905 | 0.204 | 0.022 | . | . | 100 g |
| 1 | AR 955-719F | 0.201 | 0.025 | . | 0.0071 | 150 g |
| 2 | DH E2218 | 0.1989 | 0.0014 | . | 0.0155 | 50 g |
| 1 | VS 6-2 | 0.195 | 0.0250 | . | . | 100 g |
| 1 | NCS NS93014 | 0.190 | 0.030 | . | . | 100 g |
| 2 | DH E2161 | 0.1843 | 0.0043 | . | 0.0186 | 50 g |
| 2 | SAG 0705 | 0.184 | 0.0020 | 17025 | 0.0580 | 100 g |
| 1 | VS U15/6 | 0.182 | 0.0218 | . | . | 100 g |
| 1 | JK 21 | 0.1741 | 0.011 | . | 0.008 | 150 g |
| 1 | AR 872-1221T | 0.172 | 0.0082 | . | . | 454 g |
| 2 | DH E21-372 | 0.1720 | 0.0011 | . | 0.0120 | 50 g |
| 2 | DH E21-371 | 0.1712 | 0.0011 | . | 0.0119 | 50 g |
| 1 | NCS NS18004 | 0.171 | 0.0102 | . | . | 100 g |
| 1 | Y 31904 | 0.171 | 0.0102 | . | . | 100 g |
| 1 | AR 951-1220P | 0.168 | 0.019 | . | 0.0102 | 150 g |
| 2 | DH E23-291 | 0.1668 | 0.0007 | . | 0.0050 | 50 g |
| 1 | ECRM 077-3 | 0.1650 | 0.0162 | . | 0.00860 | 100 g |
| 1 | AR 896-1021N | 0.165 | 0.087 | . | . | 454 g |
| 2 | DH E2172 | 0.1611 | 0.0147 | . | . | 50 g |
| 1 | NCS NS28021 | 0.160 | 0.028 | . | . | 100 g |
| 2 | DH E2122 | 0.1599 | 0.0016 | . | 0.0078 | 50 g |
| 1 | AR 957-421K | 0.157 | 0.096 | . | 0.0077 | 150 g |
| 2 | SAG 0710 | 0.155 | 0.0209 | 17025 | . | 100 g |
| 2 | DH E23-211 | 0.154 | 0.0009 | . | 0.0040 | 50 g |
| 2 | DH E2201 | 0.1492 | 0.0048 | . | . | 50 g |
| 1 | NCS NS93013b | 0.146 | 0.014 | . | . | 100 g |
| 2 | DH E2106 | 0.1406 | 0.0277 | . | 0.0063 | 50 g |
| 2 | DH E2334 | 0.135 | 0.0010 | . | 0.0147 | 50 g |
| 1 | AR 888-119E | 0.134 | 0.229 | . | . | 454 g |
| 2 | DH E2175 | 0.1290 | 0.0181 | . | . | 50 g |

BRAMMER STANDARD ONLINE CATALOG-COMBUSTION MATERIALS

C, S, O, N IN IRON AND STEEL, CHART 3 of 4

= class, 1 = CRM and 2 = RM analysis in mass %

| # | Number | Carbon | Sulfur | Oxygen | Nitrogen | Units |
|---|----------------|---------|-----------|--------|----------|-------------------------------------|
| 1 | AR 960-814B | 0.121 | 0.0221 | . | 0.036 | 150 g chips |
| 1 | NCS NS11086 | 0.116 | 0.0020 | . | . | 100 g chips |
| 1 | NCS NS11087 | 0.113 | 0.0023 | . | . | 100 g chips |
| 1 | AR 890-320M | 0.110 | 0.0046 | . | . | 454 g 1 g pins |
| 2 | DH E21-211 | 0.1080 | 0.0007 | . | 0.0102 | 50 g chips |
| 1 | NM 504 | 0.107 | 0.027 | . | . | 100 g 1 g pins |
| 1 | VS U17/4 | 0.106 | 0.137 | . | . | 100 g chips |
| 1 | AR 868-818A | 0.102 | 0.0053 | . | . | 454 g 1 g rings |
| 1 | NCS NS13020 | 0.10 | . | . | . | 100 g chips |
| 2 | DH E21-162 | 0.0974 | 0.0104 | . | 0.0079 | 50 g chips |
| 2 | DH E2111 | 0.0953 | 0.0066 | . | . | 50 g chips last of stock |
| 1 | VS 6-1 | 0.094 | 0.0205 | . | . | 100 g chips |
| 1 | TH 1041 | 0.0925 | 0.0100 | . | . | 100 g chips |
| 1 | NH M01 | 0.090 | 0.057 | . | . | 150 g chips |
| 1 | AR 514-518D | 0.087 | 0.335 | . | . | 250 g 0.5 g pins |
| 1 | NCS NS11085 | 0.087 | 0.0053 | . | . | 100 g chips |
| 1 | VS S41/5 | 0.085 | 0.0069 | . | 0.142 | 100 g chips |
| 1 | JK 56 | 0.085 | (0.00030) | . | 0.0108 | 50 g 0.5 g pins |
| 1 | NCS NS18003 | 0.082 | 0.035 | . | . | 100 g chips |
| 1 | Y 31903 | 0.082 | 0.035 | . | . | 100 g chips |
| 2 | DH E23-201 | 0.0800 | 0.0027 | . | 0.0120 | 50 g chips |
| 2 | DH E2317 | 0.0795 | 0.0014 | . | . | 50 g chips |
| 2 | DH E2318 | 0.0793 | . | . | . | 50 g chips |
| 2 | CZ 2004A | 0.079 | 0.0464 | . | 0.0038 | 250 g chips |
| 1 | TH 1042-3 | 0.079 | 0.0231 | . | 0.0091 | 100 g chips |
| 1 | TH 1042-2 | 0.0778 | 0.0227 | . | 0.0087 | 100 g chips |
| 1 | DSZU CX020a | 0.076 | 0.034 | . | . | 200 g chips |
| 1 | HORIBA 1603-1A | 0.072 | 0.198 | . | . | 100 g 1 g pins |
| 2 | BS CSN A | 0.068 | 0.305 | . | 0.0081 | 100 g chips |
| 2 | CZ 2026A | 0.068 | 0.255 | . | . | 250 g chips |
| 1 | NCS NS11100 | 0.066 | 0.0033 | . | 0.161 | 50 g chips |
| 1 | ECRM 294-1C | 0.0657 | 0.00031 | . | 0.566 | 100 g chips |
| 1 | AR 511-519A | 0.064 | 0.272 | . | . | 250 g 0.5 g pins |
| 2 | DH E2326 | 0.0637 | 0.0013 | . | . | 50 g chips |
| 2 | DH E2322 | 0.0609 | 0.0009 | . | . | 50 g chips, last |
| 2 | DH E21-961 | 0.0609 | 0.0006 | . | 0.0034 | 50 g chips |
| 1 | HORIBA 1601-1A | 0.0602 | 0.545 | . | 0.0082 | 100 g chips |
| 1 | JK 54 | 0.0535 | 0.0007 | 0.0046 | 0.0229 | 100 g pieces of discs 7 mm Ø x 4 mm |
| 2 | DH E22041 | 0.0469 | 0.0277 | . | 0.0035 | 50 g chips |
| 1 | JSS 201-15 | 0.0439 | . | . | . | 150 g chips |
| 1 | JSS 201-16 | 0.0413 | . | . | . | 150 g chips |
| 1 | NCS NS11026a | 0.041 | 0.0025 | . | . | 100 g chips |
| 2 | CZ 2003A | 0.0402 | 0.0316 | . | 0.0046 | 250 g chips |
| 1 | AR 871-323J | 0.037 | 0.015 | . | . | 454 g 1 g rings |
| 1 | TH 1039-2 | 0.0352 | 0.0222 | . | 0.0027 | 100 g chips |
| 1 | ECRM 273-1C | 0.0336 | 0.0004 | . | 0.0444 | 100 g chips |
| 1 | VS U10/5 | 0.032 | 0.0124 | . | . | 100 g powder |
| 1 | AR 870-819A | 0.028 | 0.025 | . | . | 454 g 1 g rings |
| 1 | AR 961-719B | 0.0242 | 0.0100 | . | 0.046 | 150 g powder |
| 1 | AR 513-1216D | 0.021 | 0.387 | . | . | 250 g 0.5 g pins |
| 1 | NCS NS11040 | 0.019 | 0.0116 | . | . | 100 g chips |
| 1 | IARM 214A | 0.018 | 0.002 | 0.0026 | 0.27 | 100 g chips |
| 1 | JSS 204-2 | 0.0178 | . | . | . | 150 g chips |
| 1 | AR 958-819B | 0.0172 | 0.0227 | . | 0.0759 | 150 g chips |
| 1 | AR 869-920K | 0.017 | 0.0026 | . | . | 454 g 1 g rings |
| 1 | AR 945-418A | 0.017 | 0.0004 | . | 0.341 | 150 g chips |
| 1 | ECRM 295-1C | 0.0166 | 0.0004 | . | 0.0615 | 100 g chips |
| 1 | ECRM 298-1C | 0.0146 | 0.0006 | . | 0.263 | 100 g chips last |
| 1 | JK 36 | 0.0125 | 0.0126 | . | 0.0337 | 150 g chips |
| 2 | KMS HNCS-001 | 0.01017 | 0.00377 | . | 0.0436 | 100 g 1 g pins |
| 1 | JSS 1203-6 | 0.00899 | . | . | . | 150 g chips |
| 1 | AR 881-222D | 0.0085 | 0.0016 | . | . | 454 g 1 g pins |

Number Carbon Sulfur Oxygen Nitrogen Units

C, S, O, N IN IRON AND STEEL, CHART 4 of 4

= class, 1 = CRM and 2 = RM analysis in mass %

| # | Number | Carbon | Sulfur | Oxygen | Nitrogen | Units |
|---|---------------|-----------|---------|--------|----------|---------------------|
| 1 | SRM 166c | 0.00781 | . | . | . | 100 g chips |
| 1 | AR 892-120E | 0.0057 | 0.0028 | . | . | 454 g 1 g pins |
| 1 | NCS NS11039 | 0.0051 | 0.0058 | . | . | 100 g chips |
| 2 | DH E2156 | 0.00483 | 0.01515 | . | . | 50 g chips |
| 1 | JSS 1202-4 | 0.00476 | . | . | . | 150 g chips |
| 1 | NCS NS11041a | 0.0037 | 0.0054 | . | . | 100 g chips |
| 2 | DH E2163 | 0.0036 | 0.0026 | . | . | 50 g chips |
| 1 | VS U14/5 | 0.0023 | 0.0057 | . | . | 100 g chips |
| 1 | JSS 1207-3 | 0.00221 | . | . | . | 150 g chips |
| 1 | NCS NS11012a | 0.0021 | 0.0068 | . | . | 100 g chips |
| 2 | CZ 2025A | 0.0020 | 0.0018 | . | . | 200 g chips |
| 1 | JSS 1206-2 | 0.00192 | . | . | . | 150 g chips |
| 1 | JSS 1205-3 | 0.00081 | . | . | . | 150 g chips |
| 1 | SRM 131H | (0.00078) | 0.00074 | . | . | 100 g chips |
| 2 | KMS LCSN-001f | 0.0007 | 0.0006 | 0.0010 | 0.0004 | 100 g 1 g pins last |
| 1 | JSS 1201-4 | 0.00066 | . | . | . | 150 g chips |
| 1 | AR 673-120F | 0.0006 | 0.0016 | . | . | 454 g 1 g rings |
| 2 | KMS LCSN-003a | 0.00048 | 0.00043 | . | 0.00050 | 100 g chips |
| 2 | KMS HOCN-002 | 0.0004 | 0.0010 | 0.0228 | 0.0004 | 100 g 1 g pins |
| 1 | JSS 243-8 | . | 0.397 | . | . | 150 g chips |
| 1 | JSS 243-7 | . | 0.379 | . | . | 150 g chips |
| 1 | NCS NS13032 | . | 0.096 | . | . | 100 g chips |
| 1 | JSS 245-7 | . | 0.0611 | . | . | 150 g chips |
| 2 | DH E2154 | . | 0.0472 | . | . | 50 g chips |
| 1 | NCS NS13029 | . | 0.037 | . | . | 100 g chips |
| 1 | JSS 242-13 | . | 0.0297 | . | . | 150 g chips |
| 2 | JSM M463-1 | . | 0.0218 | . | . | 74 g 0.74 g pins |
| 1 | JSS 241-13 | . | 0.0202 | . | . | 150 g chips |
| 1 | NCS NS13028 | . | 0.017 | . | . | 100 g chips |
| 1 | NCS NS13027 | . | 0.0105 | . | . | 100 g chips |
| 1 | JSS 240-14 | . | 0.0042 | . | . | 150 g chips last |
| 1 | JSS 240-15 | . | 0.00387 | . | . | 150 g chips |
| 1 | JSS 244-12 | . | 0.00177 | . | . | 150 g chips |
| 1 | SRM 2168 | . | 0.00107 | . | . | 150 g chips |

Number Carbon Sulfur Oxygen Nitrogen Units

RM OXYGEN IN STEEL SET

no uncertainties, SET ONLY discs 37 mm Ø x 20 mm

| Number | O | Number | O |
|---------------|--------|--------------|-------|
| JSM M405a 01a | <0.001 | JSM M405a 4a | 0.053 |
| JSM M405a 02a | 0.018 | JSM M405a 5a | 0.075 |
| JSM M405a 3a | 0.037 | JSM M405a 6a | 0.12 |

BRAMMER STANDARD ONLINE CATALOG-COMBUSTION MATERIALS

OXYGEN AND NITROGEN IN IRON AND STEEL

= class, 1 = CRM 2 = RM analysis in mass %

Table with 5 columns: #, Number, O, N, Size, Form. Contains multiple rows of material data including items like AR KED 1025-419E, SS-10-21, NCS NS11072, etc.

OXYGEN AND NITROGEN IN IRON AND STEEL

= class, 1 = CRM 2 = RM analysis in mass %

Table with 5 columns: #, Number, O, N, Size, Form. Contains multiple rows of material data including items like AR 656-921F, AR 1647-419K, NCS NS28042a, etc.

Number O N Size Form

Number O N Size Form

BRAMMER STANDARD ONLINE CATALOG-COMBUSTION MATERIALS

NITROGEN IN IRON AND STEEL

= class, 1 = CRM 2 = RM analysis in mass %

| # | Number | N | Size | Form |
|---|---------------|---------|-------|------------|
| 1 | ECRM 268-1C | 2.03 | 100 g | chips |
| 1 | NCS NS11103 | 0.986 | 50 g | chips |
| 1 | NCS NS11106 | 0.84 | 50 g | chips |
| 1 | NCS NS11105 | 0.807 | 50 g | chips |
| 1 | NCS NS21013-6 | 0.66 | 100 g | chip |
| 1 | NCS NS11104 | 0.59 | 50 g | chips |
| 1 | NCS NS11102 | 0.564 | 50 g | chips |
| 1 | NCS NS21013-5 | 0.540 | 100 g | chip |
| 1 | JSS 370-2 | 0.415 | 150 g | chips |
| 1 | VS 7-22 | 0.398 | 100 g | chips |
| 1 | NCS NS21013-4 | 0.313 | 100 g | chip |
| 1 | NCS NS11101 | 0.293 | 50 g | chips |
| 1 | NCS NS21013-3 | 0.222 | 100 g | chip |
| 1 | JSS 371-2 | 0.199 | 150 g | chips |
| 1 | NCS NS21013-2 | 0.175 | 100 g | chip |
| 1 | NCS NS21013-1 | 0.075 | 100 g | chip |
| 1 | VS 7-21 | 0.0241 | 100 g | chips |
| 2 | DH E2126 | 0.0153 | 50 g | chips last |
| 1 | DH E21-261 | 0.0152 | 50 g | chips |
| 1 | VS 7-11 | 0.0152 | 100 g | chips |
| 1 | DSZU CA09 | 0.0105 | 50 g | 0.5 g pins |
| 1 | NCS NS13011 | 0.0099 | 150 g | chips |
| 1 | NCS NS13010 | 0.0096 | 150 g | chips |
| 1 | VS 7-3/2 | 0.0093 | 100 g | chips |
| 1 | NCS NS13009 | 0.0078 | 150 g | chips |
| 1 | NCS NS13037 | 0.0067 | 150 g | chips |
| 1 | NCS NS13036 | 0.0064 | 150 g | chips |
| 1 | NCS NS14003 | 0.0048 | 100 g | chips |
| 1 | JSS 367-9 | 0.0044 | 150 g | chips last |
| 1 | NCS NS13034 | 0.0044 | 150 g | chips |
| 1 | NCS NS13033 | 0.0043 | 150 g | chips |
| 1 | VS 7-2/2 | 0.0039 | 100 g | chips |
| 1 | VS 7-10 | 0.0038 | 100 g | chips |
| 1 | JSS 367-10 | 0.00357 | 150 g | chips |
| 1 | JSS 366-9 | 0.00065 | 150 g | chips last |

CRM ALUMINUM IN STEEL

analysis listed in mass % chips 150 g

| Number | Al | B | P | Si |
|-----------|--------|---|---|----|
| JSS 330-4 | 0.0492 | . | . | . |
| JSS 330-4 | 0.0063 | . | . | . |

HYDROGEN IN IRON AND STEEL

analysis listed in mass % except * which is mg/kg (ppm)

| # | Number | H* | C | S | O | N | Size | Form | Comments |
|---|---------------------|------|--------|----------|--------|--------|--------|------------------------|------------------------------------|
| 1 | NCS NS11111 | 10 | . | . | 0.017 | 0.064 | 25 g | 0.5 g pins | |
| 1 | NCS NS11109 | 9 | . | . | 0.023 | 0.040 | 25 g | 0.5 g pins | |
| 1 | BS CSONH | 8 | 1.02 | 0.011 | 0.116 | 0.025 | 100 g | powder | 17034 |
| 1 | NCS NS11110 | 7.6 | . | . | 0.0027 | 0.048 | 50 g | 1 g balls | |
| 2 | SS-5-38 | 7.42 | . | . | . | . | 100 g | 10 g rods | 4 mm Ø x 100 mm each |
| 2 | SS-5-33 | 7.28 | last | . | . | . | 100 g | 10 g rods | 4 mm Ø x 100 mm each |
| 1 | DSZU CA033 | 7.2 | . | . | 0.0071 | 0.051 | 50 g | 1 g pins | |
| 1 | 58A HP51012 | 7.2 | . | . | . | . | 20 g | 1 g balls | |
| 1 | NCS NS11082 | 7.2 | . | . | . | . | 20 g | 1 g pins | |
| 1 | DSZU CA036 | (7) | . | . | 0.0133 | 0.0982 | 50 g | 0.5 g pins | |
| 1 | JSS GS7-2 | 6.6 | . | . | . | . | 8 rods | 5 mm Ø x 230 mm each | |
| 1 | CMSI 3012-3 | 6.5 | . | . | . | . | 40 g | 2 g balls | |
| 1 | NCS NS11080 | 6.4 | . | . | . | . | 20 g | 1 g balls | |
| 1 | DSZU CA034 | 6.2 | . | . | 0.0054 | 0.073 | 50 g | 1 g pins | |
| 2 | JSM M482-1 | 6.15 | . | . | . | . | 100 g | 1 g balls | |
| 1 | NM 507 | 6.12 | . | . | 0.0081 | 0.0383 | 100 g | 1 g pins | |
| 1 | DSZU CA031 | 6.1 | . | . | 0.0025 | 0.0072 | 50 g | 1 g pins | |
| 1 | NCS NS20001a | 6.00 | . | . | . | . | 20 g | 1 g balls | |
| 1 | TL 2101 | 6.0 | 0.0238 | (0.0010) | 0.0035 | 0.0964 | 50 g | 0.5 g pins | |
| 1 | NCS NS11078 | 5.8 | . | . | 0.0031 | 0.031 | 50 g | 1 g balls | |
| 1 | 58A HP51011 | 5.8 | . | . | 0.0033 | 0.0305 | 20 g | 1 g balls | |
| 1 | DSZU CA012 | 5.4 | . | . | 0.0058 | 0.0322 | 50 g | 1 g pins | |
| 1 | Y TSH001 | 4.6 | . | . | . | . | 50 g | 1 g balls | |
| 1 | 58A HP51010 | 4.1 | . | . | . | . | 20 g | 1 g balls | |
| 1 | DSZU CA040 | 4.0 | . | . | 0.0036 | 0.0335 | 50 g | 1 g balls | |
| 1 | BS 316G | 4 | 0.021 | 0.0213 | 0.0034 | 0.038 | 1 disc | 38 mm Ø x ~7-or 19+ mm | 17034 |
| 1 | BS 304C | 4 | 0.024 | 0.027 | 0.0050 | 0.077 | 1 disc | 38 mm Ø x ~7-or 19+ mm | 17034 |
| 1 | NCS NS20042 | 3.55 | . | . | . | . | 20 g | 1 g balls | |
| 1 | NCS NS11112 | 3.3 | . | . | 0.0037 | 0.046 | 50 g | 1 g balls | |
| 1 | BS 1763 | 3 | 0.271 | 0.024 | 0.008 | 0.0100 | 1 disc | 37 mm Ø x 19 or 20 mm | 17034 |
| 1 | NM 506 | 2.90 | . | . | 0.0104 | 0.0110 | 100 g | 1 g pins | |
| 1 | 58A HP51009 | 2.9 | . | . | . | . | 20 g | 1 g balls | |
| 1 | NCS NS11081 | 2.7 | . | . | . | . | 20 g | 1 g pins | |
| 1 | TL 2100 | 2.6 | 0.0304 | 0.0030 | 0.0042 | 0.0304 | 50 g | 0.5 g pins | |
| 1 | AR 555-1021M | 2.5 | . | . | . | . | 100 g | 1 g pins | |
| 1 | 58A HP51008 | 2.2 | . | . | . | . | 20 g | 1 g balls | |
| 1 | NCS NS11084 | 2.2 | . | . | . | . | 20 g | 1 g balls | |
| 1 | 58A NK51085 | 2.0 | . | . | 0.0025 | 0.058 | 50 g | 1 g balls | |
| 1 | BS 1040 | 2 | 0.402 | 0.032 | 0.0023 | 0.0111 | 1 disc | 28 mm Ø x ~7 or 19+ mm | 17034 |
| 1 | BS 9310 | 2 | 0.091 | 0.0053 | 0.0009 | 0.0107 | 1 disc | 41 mm Ø x ~7 or 19+ mm | 17034 |
| 1 | JSS GS9-2 | 2.0 | . | . | . | . | 8 rods | 5 mm Ø x 245 mm each | |
| 1 | DSZU CA037 | (2) | . | . | 0.0127 | 0.0857 | 50 g | 1g pins | |
| 1 | 58A HP51007 | 1.8 | . | . | . | . | 20 g | 1 g balls | |
| 1 | NCS NS11077 | 1.8 | . | . | 0.0036 | 0.034 | 20 g | 1 g balls | |
| 2 | JSM M481-3 | 1.74 | . | . | . | . | 100 g | 1 g balls | |
| 1 | DSZU CA032 | 1.7 | . | . | 0.0097 | 0.0309 | 20 g | 1 g pins | |
| 1 | 58A HP51006 | 1.6 | . | . | 0.0038 | 0.0330 | 20 g | 1 g balls | |
| 1 | 58A HP51005 | 1.3 | . | . | . | . | 20 g | 1 g balls | |
| 1 | NCS NS11083 | 1.3 | . | . | . | . | 20 g | 1 g balls | |
| 1 | BAM CRM H2 | 1.26 | . | . | . | . | 100 g | 1 g pins | EXPIRES DEC 31/2026 |
| 1 | NCS NS20025b | 1.1 | . | . | . | . | 20 g | 1 g balls | |
| 1 | BS 420 | 1.0 | 0.325 | 0.0008 | 0.0039 | 0.0150 | 1 disc | 38 mm Ø x ~7-or 19+ mm | 17034 |
| 1 | BS 422A | 1.0 | 0.206 | 0.0013 | 0.0023 | 0.066 | 1 disc | 38 mm Ø x ~7-or 19+ mm | 17034 |
| 1 | BS HON 0 | 1.0 | 0.050 | 0.0010 | 0.0023 | 0.0254 | 100 g | 1 g balls | 17034 next batch coming |
| 1 | 58A HP51004 | 0.9 | . | . | . | . | 20 g | 1 g balls | |
| 2 | JSM M481-1 | 0.9 | . | . | . | . | 100 g | 1 g balls | |
| 1 | 58A HP51003 | 0.8 | . | . | . | . | 20 g | 1 g balls | |
| 1 | BS 55H | 0.7 | 0.394 | 0.0040 | 0.0007 | 0.0052 | 1 disc | 38 mm Ø x ~7-or 19+ mm | 17034 |
| 1 | BS 2023 | 0.7 | 0.192 | 0.027 | 0.0073 | 0.0050 | 100 g | 1 g balls | 17034 |
| 1 | 58A HP51002 | 0.5 | . | . | . | . | 20 g | 1 g balls | |
| # | Number | H* | C | S | O | N | Size | Form | Comments |

CAST IRON CHIPS AND POWDER

= class, where 1 = CRM and 2 = RM

| # | Number | C% | S% | N% | Units | Comment |
|---|-----------------|-------|--------|--------|--------------|------------------|
| 1 | NH M03 | 5.63 | 0.008 | . | 150 g chips | |
| 1 | ECRM 490-1 | 4.813 | 0.0040 | 0.0030 | 100 g chips | |
| 1 | CZ 2024B | 4.40 | 0.047 | . | 200 g chips | 17034 |
| 2 | DH E2502 | 4.230 | 0.0498 | . | 50 g chips | |
| 1 | AR 304-120B | 4.22 | 0.0215 | . | 150 g powder | |
| 1 | CZ 2023B | 4.06 | 0.114 | . | 200 g chips | 17034 |
| 2 | CZ 2023A | 4.029 | 0.0886 | . | 100 g chips | |
| 1 | NCS HC93001 | 4.01 | 0.069 | . | 100 g chips | |
| 1 | NCS NS11057 | 3.98 | 0.079 | . | 50 g chips | |
| 1 | AR 323-921E | 3.89 | 0.083 | . | 250 g powder | |
| 1 | AR 303-422G | 3.88 | 0.021 | . | 150 g chips | |
| 1 | CZ 2022B | 3.86 | 0.085 | . | 200 g chips | 17034 |
| 1 | CZ 2021B | 3.80 | 0.043 | . | 200 g chips | 17034 |
| 1 | NCS NS11058 | 3.76 | 0.022 | . | 50 g chips | |
| 1 | AR 309-219D | 3.62 | 0.0191 | . | 150 g powder | |
| 1 | VS Ch11/4 | 3.61 | 0.0204 | . | 100 g powder | |
| 1 | NCS NS16002 | 3.60 | 0.0186 | . | 100 g chips | |
| 1 | VS Ch10/4 | 3.59 | 0.085 | . | 100 g powder | |
| 1 | CTIF FB20-2 | 3.557 | 0.0614 | . | 100 g chips | |
| 1 | CTIF FB20-1 | 3.552 | 0.059 | . | 100 g chips | |
| 1 | CZ 2020B | 3.52 | 0.043 | . | 200 g chips | 17034 |
| 1 | ECRM 485-3 | 3.514 | 0.1488 | 0.0081 | 100 g chips | |
| 1 | AR 306-817B | 3.48 | 0.0202 | . | 150 g powder | |
| 2 | TH 1023-3 | 3.45 | 0.0048 | . | 100 g chips | |
| 1 | CZ 2019B | 3.43 | 0.017 | . | 200 g chips | 17034 |
| 2 | TH 1050 | 3.424 | 0.143 | . | 100 g chips | |
| 1 | AR 310-120C | 3.41 | 0.083 | . | 150 g chips | |
| 2 | HRT 530-033 | 3.33 | 0.011 | . | 150 g powder | |
| 2 | HRT 530-033A | 3.33 | 0.011 | . | 1 kg powder | |
| 1 | AR 322-919A | 3.32 | 0.034 | . | 250 g powder | |
| 1 | AR 302-620C | 3.31 | 0.0203 | . | 150 g powder | |
| 2 | AR 300-1012A | 3.26 | 0.021 | . | 150 g powder | |
| 1 | ECRM 492-1 | 3.258 | 0.0854 | 0.0048 | 100 g chips | |
| 1 | VS Ch22 | 3.16 | 0.106 | . | 100 g powder | |
| 1 | AR 315-220H | 3.08 | 0.108 | . | 150 g powder | |
| 1 | CZ 2018B | 3.07 | 0.014 | . | 200 g chips | 17034 |
| 1 | CTIF FB 13 | 2.959 | 0.0973 | . | 100 g chips | |
| 1 | AR 318-1015C | 2.95 | 0.042 | . | 150 g powder | |
| 1 | VS Ch9/6 | 2.94 | 0.095 | . | 100 g powder | |
| 1 | NCS NS11060 | 2.93 | 0.101 | . | 50 g chips | |
| 1 | SRM 334 | 2.83 | 0.043 | . | 150 g chips | |
| 1 | CZ 2017B | 2.57 | 0.095 | . | 200 g chips | 17034 |
| 1 | NCS NS13001 | 2.51 | 0.020 | . | 100 g chips | |
| 2 | CZ 2017A | 2.463 | 0.0755 | . | 100 g chips | |
| 1 | CZ 2016B | 2.15 | 0.0047 | . | 200 g chips | 17034 |
| 1 | CTIF FB20 | 2.114 | 0.128 | . | 100 g chips | |
| 2 | CZ 2016A | 2.053 | 0.0048 | . | 100 g chips | |
| 1 | NCS NS16001 | 2.02 | 0.0014 | . | 100 g chips | last |
| 1 | AR 301-1018D | 2.01 | 0.0172 | . | 150 g powder | |
| 2 | CZ 2015A | 1.996 | 0.0157 | . | 100 g chips | |
| 1 | CZ 2015B | 1.99 | 0.017 | . | 200 g chips | 17034 |
| 1 | NCS NS11059 | 1.95 | 0.143 | . | 50 g chips | |
| 1 | AR 299-614B | 0.97 | 0.0102 | . | 150 g powder | |
| 1 | BS CE 216 * | . | 0.043 | . | 150 g chips | * clearance sale |
| 1 | BS CE 219 * | . | 0.038 | . | 150 g chips | * clearance sale |
| 1 | BS CE 217 * | . | 0.029 | . | 150 g chips | * clearance sale |
| # | Number | C% | S% | N% | Units | Comment |

BRAMMER STANDARD ONLINE CATALOG-COMBUSTION MATERIALS

S, O, N, H, C IN NON-FERROUS METALS

= class, where 1 = CRM and 2 = RM

analysis listed in mg/kg

| # | Number | Material | Carbon | Sulfur | Oxygen | Nitrogen | Hydrogen | Size & Form |
|---|--------------|------------|--------|--------|--------|----------|----------|--|
| 1 | AA Alu-H2 | Aluminum | . | . | . | . | 0.068 | 10 rods, 0.5" Ø x ~24" |
| 1 | 58A CP54008 | Copper | . | 94 | . | . | . | 50 g chips |
| 1 | IMN Cu 90-1 | Copper | . | 83.7 | . | . | . | 250 g chips |
| 1 | 58A CP54006 | Copper | . | 64 | . | . | . | 50 g chips |
| 1 | 58A CP54005 | Copper | . | 53 | . | . | . | 50 g chips |
| 1 | IMN Cu 50-1 | Copper | . | 49.6 | . | . | . | 250 g chips last |
| 1 | 58A CP54007 | Copper | . | 27 | . | . | . | 50 g chips |
| 1 | IMN Cu S-20 | Copper | . | 23.1 | . | . | . | 150 g chips |
| 1 | SRM 885 | Copper | Ag:5 | 18 | 310 | Pb:2 | . | 200 g of 1 g pins Trace As, Bi, Fe, Ni, Sb, Sn, and Zn |
| 1 | 58A CP54004 | Copper | . | 13 | . | . | . | 50 g chips |
| 1 | AR 145-823M | Copper | . | 8 | 187 | . | . | 100 g of 1 g pins |
| 1 | AR 146-322F | Copper | . | 6 | 251 | . | . | 100 g of 1 g pins |
| 1 | AR 147-521L | Copper | . | 5 | 3 | . | . | 454 g of 1 g pins |
| 1 | IMN CuS-L | Copper | . | 4.24 | . | . | . | 150 g chips |
| 1 | VS 8-1 | Copper | . | 3.5 | 210 | . | . | rod, 3 mm Ø x ~85 mm |
| 1 | IMN Cu 600 | Copper | . | . | 604 | . | . | 150 g of rod 5 mm Ø x 100 mm |
| 1 | IMN Cu 600/1 | Copper | . | . | 581 | . | . | 220 g of rods 6 mm Ø x 105 mm |
| 1 | NCS NS11035 | Copper | . | . | 479 | . | . | 25 g of 1 g pins |
| 1 | BCR 058 | Copper | . | . | 390 | . | . | rod, 7 mm Ø x 50 mm |
| 2 | BAM 379/3 | Copper | . | . | 378 | . | . | disc, 40 mm Ø x 30 mm |
| 1 | NCS NS11038 | Copper | . | . | 376 | . | . | 25 g of 1 g pins |
| 1 | NCS NS11034 | Copper | . | . | 261 | . | . | 25 g of 1 g pins |
| 2 | BAM 379/2 | Copper | . | . | 212 | . | . | disc, 40 mm Ø x 30 mm |
| 1 | NCS NS11036 | Copper | . | . | 208 | . | . | 25 g of 1 g pins last of stock |
| 1 | IMN Cu 200/4 | Copper | . | . | 195.6 | . | . | 180 g of rods 8 mm Ø x 100 mm |
| 1 | IMN Cu 100/5 | Copper | . | . | 163.7 | . | . | 200 g of rod 20 mm Ø x 100 mm |
| 1 | DSZU CA023 | Copper | . | . | 158 | . | (2.1) | 50 g of 0.5 g pins |
| 1 | BCR 022A | Copper | . | . | 138 | . | . | disc, 26 mm Ø x 9 mm |
| 1 | BCR 022B | Copper | . | . | 138 | . | . | rod, 9 mm Ø x 50 mm |
| 1 | NCS NS11033 | Copper | . | . | 135 | . | . | 25 g of 1 g pins |
| 1 | IMN Cu 100 | Copper | . | . | 123 | . | . | 150 g of rod 5 mm Ø x 100 mm |
| 2 | BAM 379/1 | Copper | . | . | 38 | . | . | disc, 40 mm Ø x 30 mm |
| 1 | NCS NS11032 | Copper | . | . | 18 | . | . | 25 g of 1 g pins |
| 1 | NCS NS11031 | Copper | . | . | 10 | . | . | 25 g of 1 g pins |
| 1 | DSZU CA021 | Copper | . | . | 7.4 | . | (1.9) | 50 g of 1 g pins |
| 1 | IMN Cu 10/1 | Copper | . | . | 3.8 | . | . | 150 g of rod 6 mm Ø x 110 mm |
| 1 | NCS NS11030 | Copper | . | . | 2.8 | . | . | rod, 6 mm Ø x 110 mm |
| 1 | IMN Cu 10 | Copper | . | . | 2.1 | . | . | 150 g of rod 5 mm Ø x 100 mm |
| 1 | BCR 054R | Copper | . | . | 0.47 | . | . | rod, 7 mm Ø x 50 mm |
| 1 | IMN Ni-2 | Nickel | 128 | 149 | . | . | . | 100 g chips last of stock |
| 1 | SRM 861 | Nickel | . | 0.561 | . | . | . | 50 g chips |
| 1 | 58A HC51001 | Nickel | . | . | 20 | 51 | . | 20 g cube 4mm x 4mm x 5mm |
| 1 | 58A HC52001 | Nickel | . | . | 10 | 6.3 | . | 20 g cube 4mm x 4mm x 5mm |
| 1 | IMN Ag10/1 | Silver | . | . | 11 | . | . | 2 rods, 6 mm Ø x 100 mm |
| 1 | BCR 275 | Zircaloy-4 | 113 | . | 1670 | 39.0 | . | 10 pcs 13 mm Ø x 1 mm each |
| 1 | BCR 276 | Zircaloy-4 | 108 | . | 1540 | 41 | . | 100 pcs 4.5 mm Ø x 2 mm each |
| 1 | AR 590-815C | Zirconium | 160 | . | . | . | 10 | 25 g of 0.25 g pins |

CRM

COPPER PINS

analysis listed in mg/kg

50g of 0.31g pins

| Number | Ag | As | Bi | Cd | Co | Cr | Fe | Mn | Ni | Pb | S | Sb | Se | Sn | Te | Zn |
|---------|------|------|------|--------|------|------|------|------|------|------|------|-----|------|------|------|------|
| IMN 001 | 27.1 | 3.13 | 1.39 | (0.11) | 2.09 | 3.53 | 13.9 | 5.16 | 3.64 | 4.02 | 5.99 | 2.4 | 1.34 | 3.39 | 1.23 | 4.57 |

RM

PURITY NICKEL POWDER

certified analysis listed in mg/kg, no uncertainties

informational values

100 g units

| Number | Al | C | Cr | Cu | Fe | Mn | Mo | O | P | Pb | S | Si | Ag | As | B | Ba | Be | Bi | Ca | Cd | Co | Ga | H | In | Mg | N | Na | Sb | Se | Sn | Te | Ti | Tl | V | Zn |
|----------|----|-----|----|----|-----|----|----|------|---|-----|---|----|------|------|----|----|----|------|----|------|----|------|----|------|----|----|----|------|------|----|------|----|------|----|----|
| BS HPN-1 | 70 | 268 | 22 | 2 | 202 | 2 | 3 | 1850 | 5 | 0.2 | 4 | 6 | <0.1 | <0.5 | <2 | <1 | <1 | <0.2 | 3 | <0.1 | <2 | <0.5 | 99 | <0.2 | 1 | 27 | 4 | <0.1 | <0.2 | <1 | <0.2 | <1 | <0.1 | <1 | <1 |

CRM TITANIUM

analysis listed in mass %

| Number | H | C | N | O | S | Units |
|--------------------------------------|----------|--------|---------|---------|----------|-------------------------------|
| AR 592-616A | 0.0290 | 0.0072 | . | . | . | 25 g of 0.25 g pins |
| NCS NS11093 | 0.027 | . | 0.0097 | 0.144 | . | 5 Rods 2 x 2 x 120 mm |
| SRM 2454 | 0.0211 | . | . | . | . | 10 g chips |
| AR 589-519B | 0.0207 | 0.0083 | . | . | . | 25 g of 0.25 g pins |
| AR 649-621T | 0.0197 | . | 0.0065 | 0.125 | . | 10 g of 0.1 g pins |
| AR 648-721Y | 0.0169 | . | 0.0058 | 0.119 | . | 10 g of 0.1 g pins |
| SRM 2453a | 0.01268 | . | . | . | . | 10 g of 0.1 g pins |
| AR 647-220G | 0.0122 | . | 0.0039 | 0.111 | . | 10 g of 0.1 g pins |
| NCS NS11091 | 0.012 | . | 0.0095 | 0.070 | . | 5 Rods 2 x 2 x 120 mm |
| AR 588-121B | 0.0149 | 0.008 | . | . | . | 25 g of 0.25 g pins |
| SRM 2453 | 0.0114 | . | . | . | . | 10 g chips last |
| AR 587-619A | 0.0099 | 0.008 | . | . | . | 25 g of 0.25 g pins |
| NCS NS11092 | 0.0097 | . | 0.030 | 0.130 | . | 5 Rods 2 x 2 x 120 mm |
| AR 650-520X | 0.0090 | . | 0.0060 | 0.100 | . | 10 g of 0.1 g pins |
| AR 585-1021P | 0.0081 | 0.007 | . | . | . | 25 g of 0.25 g pins |
| VS 1-2 | 0.0070 | . | 0.0037 | 0.081 | . | 11 g of 0.1 g pins |
| SRM 2452 | 0.00559 | . | . | . | . | 10 g chips |
| AR 582-319A | 0.0052 | 0.025 | . | . | . | 25 g of 0.25 g pins |
| AR 642-521N | 0.0052 | . | 0.0182 | 0.151 | . | 10 g of 0.1 g pins |
| DSZU CA017 | 0.0039 | . | 0.0061 | 0.151 | . | 10 g of 0.1 g pins |
| AR 635-1221V | 0.0036 | . | 0.0143 | 0.145 | . | 10 g of 0.1 g pins |
| NCS NS11107 | 0.0035 | . | 0.018 | 0.113 | . | 100 x 0.15 g pins |
| AR 651-621R | 0.0022 | . | 0.0071 | 0.130 | . | 10 g of 0.1 g pins |
| AR 586-120D | 0.0019 | 0.020 | . | . | . | 25 g of 0.25 g pins |
| DSZU CA016A | 0.0018 | . | 0.007 | 0.070 | . | 10 g of 0.1 g pins |
| IARM 300A | 0.0018 | 0.007 | 0.0033 | 0.162 | 0.0008 | 65 g chips |
| NCS NS11090 | 0.0017 | . | 0.0034 | 0.285 | . | 5 Rods 2 x 2 x 120 mm |
| DSZU CA018A | 0.0016 | . | 0.013 | 0.051 | . | 10 g of 0.1 g pins |
| DSZU CA019 | 0.0016 | . | 0.010 | 0.24 | . | 10 g of 0.1 g pins |
| AR 631-123c | 0.0016 | . | 0.0076 | 0.389 | . | 10 g of 0.1 g pins |
| DSZU CA016B | 0.0016 | . | 0.0039 | 0.060 | . | 10 g of 0.1 g pins |
| TL 3100 (RM) | 0.0015 | . | (0.005) | (0.055) | . | 10 g of 0.1 g pins |
| NCS NS11089 | 0.0014 | . | 0.0050 | 0.045 | . | 5 Rods 2 x 2 x 120 mm |
| NCS NS11108 | 0.0014 | . | 0.0030 | 0.099 | . | 100 x 0.15 g pins |
| TL 3101 | 0.00127 | . | 0.0039 | 0.1721 | . | 50 x 0.17 g discs |
| VS 1-1 | 0.0007 | . | 0.005 | 0.096 | . | 11 g of 0.1 g pins |
| AR 641-1021L | 0.0003 | . | 0.0272 | 0.179 | . | 10 g of 0.1 g pins |
| IARM 261C | 0.001 | 0.011 | 0.005 | 0.085 | (0.001) | 65 g chips |
| IARM 261B | (0.001) | 0.011 | 0.004 | 0.083 | (0.0004) | 65 g chips |
| IARM 261E | (0.0005) | 0.012 | 0.006 | 0.084 | (0.001) | 65 g chips |
| IARM 261D | (0.0005) | 0.011 | 0.0051 | 0.083 | (0.001) | 65 g chips |
| BCR 059B | . | . | 0.0172 | 0.1750 | . | 25 units of 0.2 g cubes |
| BCR 059A | . | . | 0.0172 | 0.1750 | . | disc, 26 mm Ø x 9 mm |
| 58A HC53003 | . | . | 0.014 | 0.124 | . | ~10 g rods 3 pcs 1.5 x 100 mm |
| BCR 024B | . | . | 0.0117 | 0.0608 | . | 25 0.4 g cubes |
| BCR 024C | . | . | 0.0117 | 0.0608 | . | 25 0.2 g cubes |
| BELOW ITEMS ARE SET ONLY, AS GROUPED | | | | | | |
| NCS NS20043-4 | 0.00295 | . | 0.0089 | 0.16 | . | Rod 100 x 3 x 2 mm |
| NCS NS20043-1 | 0.0018 | . | 0.014 | 0.18 | . | Rod 100 x 3 x 2 mm |
| NCS NS20043-2 | 0.0014 | . | 0.018 | 0.31 | . | Rod 100 x 3 x 2 mm |
| NCS NS20043-3 | 0.0010 | . | 0.0093 | 0.13 | . | Rod 100 x 3 x 2 mm |

| Number | H | C | N | O | S | Units |
|--------|---|---|---|---|---|-------|
|--------|---|---|---|---|---|-------|

CRM REFRACTORY SET

available in set/6 only

| Number | S | Units |
|-----------|-------|-------|
| JRRM 1101 | 0.106 | 40 g |
| JRRM 1102 | 0.293 | 40 g |
| JRRM 1103 | 1.02 | 40 g |
| JRRM 1104 | 1.48 | 40 g |
| JRRM 1105 | 2.89 | 40 g |
| JRRM 1106 | 4.93 | 40 g |

ORGANIC COMBUSTION SAMPLES

listed in mass %

| # | Part Number | Material | Units | C | S | O | N | H | |
|---|----------------|----------|-------|-------|---------|-------|--------|------|------|
| 2 | 501-441 | Sucrose | 50 g | 42.10 | . | 51.42 | . | 6.48 | last |
| 1 | AR 2092 | EDTA | 50 g | 41.10 | . | 43.79 | 9.59 | 5.52 | |
| 2 | AR 4012-622Q | Ore | 25 g | 12.02 | 0.033 | . | . | . | |
| 2 | AR 4023-100902 | Ore | 25 g | 11.70 | 0.220 | . | . | . | |
| 2 | AR 4024-920G | Ore | 25 g | 11.59 | 0.40 | . | . | . | |
| 2 | AR 4007-721X | Ore | 30 g | 7.58 | 3.27 | . | . | . | |
| 2 | AR 4022-519E | Ore | 25 g | 7.15 | 0.052 | . | . | . | |
| 2 | AR 4014-42899 | Ore | 25 g | 5.87 | 0.029 | . | . | . | |
| 2 | AR 4006-821b | Ore | 30 g | 4.08 | 3.95 | . | . | . | |
| 2 | JSM M454-1 | Grain | 150 g | 3.73 | 0.0298 | . | . | . | |
| 2 | JSM M453-1 | Grain | 150 g | 3.20 | 0.0136 | . | . | . | |
| 1 | AR 4021-814A | Soil | 100 g | 3.04 | 0.032 | . | . | . | |
| 2 | JSM M452-1 | Grain | 150 g | 2.78 | 0.0110 | . | . | . | |
| 2 | AR 4016-320Q | Soil | 25 g | 2.05 | 2.05 | . | . | . | |
| 2 | AR 4005-321E | Ore | 30 g | 1.43 | 1.45 | . | . | . | |
| 2 | AR 4018-619H | Soil | 25 g | 1.18 | 1.03 | . | . | . | |
| 2 | JSM M451-1 | Grain | 150 g | 0.93 | 0.0096 | . | . | . | |
| 2 | AR 4017-420R | Soil | 25 g | 0.49 | 0.48 | . | . | . | |
| 1 | JK 47A | Iron Ore | 35 g | 0.370 | (0.009) | 0.69 | 0.0062 | . | |

INORGANIC MATERIALS

= class, where 1 = CRM and 2 = RM analysis listed in mass % except * which is mg/kg (ppm)

| # | Number | Material and Units | C | S | O | N | Hg* | Heat |
|---|---------------|----------------------------------|---------|--------|--------|---|-------------------------|------------|
| 1 | AR 2029 | Graphite powder 50g | 99.99 | . | . | . | . | . |
| 1 | AR 308-619B | Ferrocromium power 100g | 9.17 | 0.018 | . | . | . | . |
| 1 | AR 307-518C | Tungsten Carbide powder 100g | 6.17 | 0.0050 | . | . | . | . |
| 1 | NCS NS51001a | Tungsten Carbide powder 100g | 6.118 | . | . | . | . | . |
| 1 | AR 6123-319E | Carbon powder 25g | H:0.300 | . | . | . | . | . |
| 1 | AR 6122-319D | Carbon powder 25g | H:0.205 | . | . | . | . | . |
| 1 | AR 6121-319C | Carbon powder 25g | H:0.105 | . | . | . | . | . |
| 1 | BCR 102 | Tungsten Carbide 2 to 3 grams | . | . | 0.0185 | . | . | . |
| 1 | COCO BA001 | Benzoic Acid 100g of 1g tablets | . | . | . | . | 26,450 J and 11,371 BTU | . |
| 1 | SABS CRM100 | Benzoic Acid 100g of 1g tablets | . | . | . | . | . | 26,448.0 J |
| 2 | BCS 190v | Benzoic Acid 100g of 1g tablets | . | . | . | . | . | 26,443.2 J |
| 2 | BCS 190t | Benzoic Acid 100g crystals | . | . | . | . | . | 26,439.7 J |
| 2 | BCS 190t tabs | Benzoic Acid 20g of 0.2g tablets | . | . | . | . | . | 26,439.7 J |
| 1 | SRM 39J | Benzoic Acid 30g powder | . | . | . | . | . | 26,434 J |