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PURE IRON

= class, where 1 = CRM and 2 = RM

T = total

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | Co | N | O |
|---|----------------|----------|---------|-----------|---------|---------|---------|--------|---------|----------|----------|--------|---------|----------|
| 1 | SRM 1265a | 0.0067 | 0.0057 | 0.0011 | 0.0055 | 0.008 | 0.0058 | 0.041 | 0.007 | 0.0050 | (0.0007) | 0.007 | . | . |
| 1 | BS 50F | 0.0064 | 0.082 | 0.0066 | 0.0031 | 0.016 | 0.0088 | 0.016 | 0.022 | 0.0017 | 0.003 | 0.0023 | 0.0042 | (0.0026) |
| 2 | CZ LA-0A | (0.006) | 0.045 | 0.005 | 0.005 | 0.0015 | 0.012 | 0.028 | 0.022 | (0.0044) | 0.0015 | 0.002 | 0.0023 | . |
| 1 | VS RG31 | 0.0035 | 0.0010 | 0.0015 | . | 0.009 | 0.010 | 0.0046 | 0.0016 | 0.0003 | . | 0.0007 | . | . |
| 2 | TL 1669 * | 0.00226 | 0.0955 | 0.0137 | 0.0100 | 0.0093 | 0.0217 | 0.0160 | 0.0246 | 0.0011 | 0.03553T | 0.0019 | 0.0024 | . |
| 2 | TH 1045D | 0.0023 | . | . | 0.0043 | . | . | . | . | . | . | . | 0.0046 | . |
| 1 | VS RG24/1 | 0.0022 | 0.015 | 0.0027 | 0.0069 | 0.017 | 0.011 | 0.037 | 0.037 | 0.0013 | . | 0.012 | . | . |
| 1 | BS LC-6 | 0.0020 | 0.469 | 0.0007 | 0.0009 | 0.050 | 0.0003 | 0.0057 | 0.0023 | (0.0006) | 0.034 | 0.0021 | 0.0003 | 0.0007 |
| 1 | SRM 1768 | 0.0010 | 0.0014 | 0.0013 | 0.0003 | . | 0.0006 | 0.0014 | . | . | 0.0024 | 0.0025 | 0.002 | 0.036 |
| 1 | ECRM 098-1D | 0.00051 | 0.00008 | (0.00006) | 0.00031 | 0.00048 | . | . | 0.00571 | 0.00085 | . | . | 0.00024 | . |
| 1 | ECRM 097-1D | (<0.002) | 0.0064 | 0.0016 | 0.0022 | (<0.01) | 0.0020 | 0.0025 | 0.0016 | (<0.001) | . | 0.0037 | 0.0007 | . |
| 1 | ECRM 097-2D | . | 0.012 | 0.00538 | 0.00181 | 0.00285 | 0.00793 | 0.0241 | 0.0213 | 0.00370 | . | 0.0139 | 0.00294 | . |

| Number | As | B | Mg | Nb | Pb | Sn | Ti | V | W | Units |
|----------------|-----------|-----------|------------|-------------|------------|-----------|----------|-----------|-----------|--|
| SRM 1265a | (0.0002) | 0.00013 | . | . | 0.00001 | . | (0.0001) | 0.0006 | . | disc 32 mm Ø x 19 mm |
| BS 50F | 0.0013 | (<0.0002) | (<0.0001) | (<0.0002) | (<0.0003) | 0.0010 | 0.0004 | (0.0003) | (<0.0050) | disc 35 mm Ø x -7 or 19+ mm 17025 |
| CZ LA-0A | (0.0015) | . | . | Sb:(0.0007) | (0.001) | (0.001) | 0.001 | . | . | disc -37 mm Ø x 25 mm |
| VS RG31 | . | . | . | . | . | . | . | . | . | disc -45 mm Ø x -28mm |
| TL 1669 * | 0.0017 | 0.00038 | . | 0.00046 | 0.00013 | 0.0071 | 0.0504 | (0.0006) | . | disc 38 mm Ø x 25 mm |
| TH 1045D | . | . | . | . | . | . | . | . | . | disc 40 mm Ø x 40 mm |
| VS RG24/1 | . | . | . | . | . | . | 0.0010 | . | . | disc -45 mm Ø x -28mm |
| BS LC-6 | (<0.0020) | (0.0004) | (0.00003) | (<0.0010) | (<0.0020) | (<0.0020) | 0.0006 | (<0.0010) | (<0.0050) | disc 39 mm Ø x -7 or 19+ mm 17025 |
| SRM 1768 | . | . | . | . | . | . | . | . | . | disc 31 mm Ø x 19 mm |
| ECRM 098-1D | . | . | . | . | . | . | . | . | . | octagon 35 mm Ø x 25 mm |
| ECRM 097-1D | 0.0051 | 0.0003 | . | . | . | (<0.0025) | . | (<0.001) | . | disc 38 mm Ø x 3, 25, or 30 mm |
| ECRM 097-2D | 0.00281 | 0.00012 | Sb:0.00012 | Ta:0.00015 | Zn:0.00014 | 0.00043 | . | 0.00011 | 0.00386 | disc 38 mm Ø x 25 or 30 mm |

* TL-1669 also contains in ppm Ca: 1.7, Sb: 4.9, Zn: 2.7

RM CARBON STEEL XRF SET

Part Number: BS CS-10

AVAILABLE INDIVIDUALLY

17025

~7 mm discs

| Grade | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | As | Co | N | Sn | V |
|------------|----------------|--------|-------|--------|--------|-------|--------|-------|-------|--------|---------|---------|--------|--------|----------|----------|
| Pure Iron | BS 50F | 0.0064 | 0.082 | 0.0066 | 0.0031 | 0.016 | 0.0088 | 0.016 | 0.022 | 0.0017 | 0.003 | 0.0013 | 0.0023 | 0.0042 | 0.0010 | (0.0003) |
| 1008 | BS XAAS | 0.041 | 0.430 | 0.007 | 0.010 | 0.045 | 0.015 | 0.023 | 0.020 | 0.007 | 0.006 | 0.005 | 0.004 | 0.0037 | <0.002 | <0.005 |
| 1018 | BS 2931 | 0.202 | 0.75 | 0.012 | 0.025 | 0.23 | 0.23 | 0.106 | 0.154 | 0.019 | 0.002 | 0.007 | 0.009 | 0.0119 | 0.010 | 0.002 |
| 1020 | BS 57F | 0.196 | 0.554 | 0.009 | 0.027 | 0.202 | 0.197 | 0.070 | 0.120 | 0.018 | (0.002) | (0.006) | 0.007 | 0.0077 | 0.008 | 0.063 |
| 1026 | BS 4932 | 0.234 | 0.76 | 0.010 | 0.015 | 0.25 | 0.15 | 0.080 | 0.144 | 0.033 | (0.001) | (0.005) | 0.005 | 0.0080 | 0.008 | 0.060 |
| 1035 | BS 4931 | 0.352 | 0.80 | 0.011 | 0.016 | 0.27 | 0.217 | 0.070 | 0.093 | 0.024 | (0.001) | 0.005 | 0.006 | 0.0080 | 0.009 | 0.058 |
| 1040 | BS 3941 | 0.407 | 0.802 | 0.016 | 0.023 | 0.257 | 0.053 | 0.018 | 0.069 | 0.0061 | 0.0019 | 0.0036 | 0.0042 | 0.0069 | 0.0019 | 0.0025 |
| 1045 | BS 56E | 0.483 | 0.72 | 0.010 | 0.025 | 0.24 | 0.015 | 0.015 | 0.021 | 0.005 | 0.062 | 0.0035 | 0.005 | 0.0056 | (0.0006) | (<0.002) |
| 1095 | BS 64C | 0.920 | 0.22 | 0.015 | 0.0024 | 0.22 | 0.016 | 0.038 | 0.261 | 0.008 | (0.005) | . | 0.004 | 0.0084 | (0.001) | 0.005 |
| 1522 (LF2) | BS 2932 | 0.208 | 1.20 | 0.008 | 0.020 | 0.186 | 0.060 | 0.034 | 0.077 | 0.026 | 0.022 | (0.003) | 0.004 | 0.0080 | 0.005 | 0.001 |

CRM CARBON STEEL SET

AVAILABLE IN SET/6 ONLY

38 mm Ø x 30 mm

| Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Al.Sol | Ti | Ti.Sol | V |
|---------------|--------|-------|--------|--------|-------|--------|-------|-------|--------|--------|--------|----------|--------|
| NCS HS11719-5 | 1.19 | 2.20 | 0.011 | 0.013 | 0.751 | 0.046 | 0.164 | 0.439 | 0.036 | 0.034 | 0.029 | 0.028 | 0.0082 |
| NCS HS11719-1 | 0.963 | 0.586 | 0.022 | 0.010 | 0.241 | 0.111 | 0.206 | 0.131 | 0.019 | 0.017 | 0.016 | 0.015 | 0.035 |
| NCS HS11719-3 | 0.435 | 1.14 | 0.045 | 0.020 | 0.163 | 0.160 | 0.114 | 0.086 | 0.019 | 0.016 | 0.024 | 0.023 | 0.099 |
| NCS HS11719-4 | 0.140 | 1.30 | 0.084 | 0.020 | 0.526 | 0.276 | 0.344 | 0.198 | 0.160 | 0.155 | 0.132 | 0.128 | 0.153 |
| NCS HS11719-2 | 0.042 | 0.048 | 0.105 | 0.0053 | 0.154 | 0.411 | 0.432 | 0.247 | 0.296 | 0.292 | 0.161 | 0.154 | 0.207 |
| NCS HS11719-6 | 0.0060 | 0.163 | 0.0053 | 0.035 | 0.014 | 0.0032 | 0.013 | 0.021 | 0.0021 | 0.0016 | 0.0010 | (0.0008) | 0.363 |

CRM SOLUBLE ALUMINUM AND SOLUBLE BORON STEEL SET

available in set/6 only as grouped .T = total .S = soluble

37 mm Ø x 30 mm

| Number | Al.T | Al.S | B.T | B.S | C | Mn | P | S | Si | Cu | Ni | Cr | Co | Mo |
|---------------|--------|--------|--------|--------|-------|-------|--------|---------|-------|-------|-------|-------|--------|--------|
| NCS HS93703-1 | 0.387 | 0.381 | 0.025 | 0.023 | 1.08 | 2.35 | 0.0057 | (0.008) | 0.681 | 0.048 | 0.028 | 3.98 | 0.0047 | 0.0077 |
| NCS HS93703-2 | 0.92 | 0.91 | 0.0083 | 0.0080 | 0.055 | 0.021 | 0.027 | 0.0033 | 0.827 | 0.422 | 1.09 | 3.09 | 0.262 | 1.56 |
| NCS HS93703-3 | 0.107 | 0.103 | 0.0041 | 0.0037 | 0.792 | 1.34 | 0.013 | 0.038 | 1.09 | 0.532 | 0.533 | 2.11 | 0.488 | 0.397 |
| NCS HS93703-4 | 0.083 | 0.078 | 0.0050 | 0.0048 | 0.475 | 0.612 | 0.015 | 0.015 | 2.57 | 0.687 | 2.01 | 1.31 | 0.403 | 0.977 |
| NCS HS93703-5 | (1.29) | (1.27) | 0.0017 | 0.0015 | 0.651 | 1.53 | 0.036 | 0.0052 | 0.024 | 0.236 | 2.98 | 0.021 | 0.094 | 0.631 |
| NCS HS93703-6 | 0.64 | 0.63 | 0.0033 | 0.0030 | 0.246 | 0.211 | 0.045 | 0.0058 | 0.274 | 0.092 | 3.83 | 0.505 | 0.145 | 0.203 |

| Number | As | Bi | Ca | Nb | Pb | Sb | Sn | Ti | V | W | Zr |
|---------------|--------|----------|----------|--------|--------|----------|--------|-------|--------|-------|--------|
| NCS HS93703-1 | 0.032 | 0.0011 | 0.0009 | 0.351 | 0.0016 | (0.0001) | 0.014 | 0.473 | 0.0090 | 0.293 | 0.0031 |
| NCS HS93703-2 | 0.0034 | 0.0006 | 0.0010 | 0.254 | 0.0008 | 0.0020 | 0.0069 | 0.346 | 0.376 | 1.97 | 0.087 |
| NCS HS93703-3 | 0.0019 | 0.0004 | 0.0010 | 0.506 | 0.0007 | 0.0040 | 0.054 | 0.016 | 0.071 | 0.755 | 0.014 |
| NCS HS93703-4 | 0.056 | (0.0002) | (0.0001) | 0.167 | 0.0006 | 0.0095 | 0.012 | 0.035 | 0.709 | 1.48 | 0.069 |
| NCS HS93703-5 | 0.0064 | 0.0015 | 0.0007 | 0.0057 | 0.0007 | 0.010 | 0.015 | 0.111 | 0.231 | 0.050 | 0.41 |
| NCS HS93703-6 | 0.011 | (0.0002) | (0.0001) | 0.070 | 0.0011 | 0.0006 | 0.017 | 0.246 | 0.526 | 1.04 | 0.22 |

CARBON STEEL

CONTINUED ON THE NEXT PAGE

= Class, where 1 = CRM and 2 = RM

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Als | As | B | Ca | Co | Mo |
|---|--------------|--------|--------|---------|---------|--------|---------|--------|---------|---------|----------|----------|----------|-----------|----------|---------|
| 1 | IRSID 1660 | 1.20 | 0.280 | 0.014 | 0.010 | 0.173 | 0.059 | 0.072 | (0.026) | (0.009) | . | . | . | . | . | . |
| 1 | ECRM 090-1D | 1.15 | 0.225 | 0.013 | 0.0095 | 0.281 | 0.053 | 0.121 | . | . | . | . | . | . | . | 0.009 |
| 1 | SRM 1227 | 0.97 | 0.402 | 0.014 | 0.026 | 0.215 | 0.006 | 0.007 | 0.019 | . | . | . | . | . | 0.003 | 0.003 |
| 1 | SS 602/2 | 0.94 | 0.66 | 0.023 | 0.031 | 0.057 | (0.06) | (0.02) | (0.03) | 0.096 | . | . | . | . | (0.007) | (0.004) |
| 2 | BS 64C | 0.920 | 0.22 | 0.015 | 0.0024 | 0.22 | 0.016 | 0.038 | 0.261 | (0.005) | . | . | . | . | 0.004 | 0.008 |
| 2 | HRT FE2014-N | 0.91 | 1.97 | 0.012 | (0.004) | 0.24 | 0.01 | 0.02 | 0.35 | 0.016 | . | . | . | . | . | 0.01 |
| 1 | ECRM 056-2D | 0.8181 | 0.5073 | 0.0103 | 0.0093 | 0.2006 | 0.0129 | 0.0218 | 0.0146 | . | 0.00024 | . | . | . | . | . |
| 1 | SRM 1224 | 0.75 | 0.41 | 0.009 | 0.039 | 0.173 | 0.072 | 0.054 | 0.071 | 0.060 | . | . | . | . | . | 0.013 |
| 1 | VS RG28 | 0.70 | 0.84 | 0.031 | . | 1.161 | 0.050 | 0.154 | 0.135 | 0.066 | . | . | . | . | . | 0.090 |
| 1 | VS RG28/1 | 0.68 | 0.91 | 0.031 | 0.0071 | 1.36 | 0.040 | 0.168 | 0.194 | 0.068 | . | . | . | . | 0.072 | 0.104 |
| 1 | IARM 373A | 0.63 | 0.70 | 0.0123 | 0.031 | 0.22 | 0.107 | 0.048 | 0.096 | 0.002 | . | 0.0046 | 0.0003 | 0.0005 | 0.005 | 0.0176 |
| 1 | VS UG20/6 | 0.58 | 0.473 | (0.008) | (0.02) | 0.229 | 0.249 | 0.360 | 0.396 | . | . | . | . | . | . | . |
| 1 | NM 3405.01 | 0.57 | 0.80 | 0.037 | 0.048 | 0.19 | . | 0.031 | 0.081 | . | . | . | . | . | . | . |
| 1 | SS 435/1 | 0.52 | 0.41 | 0.033 | 0.031 | 0.54 | . | 0.060 | 0.14 | . | . | . | . | . | . | . |
| 1 | SS 435/2 | 0.49 | 0.39 | 0.04 | 0.042 | 0.32 | . | 0.13 | 0.18 | . | . | . | . | . | 0.011 | . |
| 2 | BS 56E | 0.483 | 0.72 | 0.010 | 0.025 | 0.24 | 0.015 | 0.015 | 0.021 | 0.062 | . | 0.0035 | . | (<0.0005) | 0.005 | 0.005 |
| 1 | IRSID 1636 | 0.47 | 0.78 | 0.029 | 0.037 | 0.40 | 0.135 | 0.092 | (0.060) | (0.007) | . | . | . | . | . | . |
| 1 | SS 459/2 | 0.467 | 0.909 | 0.0482 | 0.0481 | 0.640 | . | 0.035 | (0.013) | . | 0.0036 | 0.0110 | . | . | 0.0890 | . |
| 1 | BS 56H | 0.457 | 0.772 | 0.0096 | 0.0234 | 0.210 | 0.299 | 0.154 | 0.098 | 0.009 | . | 0.0056 | 0.0002 | 0.0012 | 0.0078 | 0.0419 |
| 1 | VS UG123 | 0.45 | 0.552 | 0.016 | 0.026 | 0.216 | 0.196 | 0.084 | 0.111 | 0.024 | . | . | . | . | . | . |
| 1 | IRSID 1657 | 0.445 | 0.724 | 0.028 | (0.013) | 0.274 | . | 0.048 | (0.022) | 0.004 | . | 0.0051 | . | . | . | (0.008) |
| 1 | IRSID 1648 | 0.432 | 1.41 | 0.031 | (0.070) | 0.242 | 0.408 | 0.165 | 0.170 | (0.004) | . | (0.038) | . | . | . | (0.028) |
| 1 | 12X 10400A | 0.420 | 0.754 | 0.0137 | 0.0305 | 0.220 | 0.140 | 0.0631 | 0.139 | 0.0323 | . | 0.0068 | . | . | . | 0.0169 |
| 1 | NM EN-8 | 0.42 | 0.82 | 0.02 | 0.02 | 0.21 | . | . | . | . | . | . | . | . | . | . |
| 1 | IRSID 1642 | 0.418 | 0.929 | 0.031 | (0.031) | 0.388 | 0.097 | 0.068 | (0.035) | (0.020) | . | (0.042) | . | . | . | (0.009) |
| 1 | IRSID 1647 | 0.418 | 0.701 | 0.019 | (0.027) | 0.299 | (0.104) | 0.093 | 0.490 | (0.060) | (0.0555) | . | . | . | . | . |
| 1 | IRSID 1646 | 0.414 | 0.701 | 0.020 | 0.027 | 0.293 | 0.104 | 0.093 | 0.493 | 0.056 | . | . | . | . | . | . |
| 1 | IARM 210D | 0.412 | 0.73 | 0.0052 | 0.030 | 0.230 | 0.273 | 0.122 | 0.096 | (0.002) | . | 0.0059 | 0.0004 | 0.0009 | 0.007 | 0.034 |
| 1 | SS 434/1 | 0.41 | 1.49 | 0.050 | 0.027 | 0.31 | . | 0.044 | 0.055 | . | . | . | . | . | . | . |
| 1 | IARM 349A | 0.41 | 1.49 | 0.011 | 0.025 | 0.192 | 0.300 | 0.178 | 0.189 | 0.0020 | . | 0.005 | 0.0003 | 0.0015 | 0.0085 | 0.059 |
| 1 | BS 3941 | 0.407 | 0.802 | 0.016 | 0.023 | 0.257 | 0.053 | 0.018 | 0.069 | 0.0019 | . | 0.0036 | (0.0001) | 0.0011 | 0.0042 | 0.0061 |
| 1 | IRSID 1652 | 0.406 | 0.931 | (0.017) | 0.040 | 0.386 | 0.345 | 0.190 | 0.184 | . | (0.0013) | 0.0038 | . | . | . | (0.042) |
| 1 | IRSID 1637 | 0.401 | 0.940 | 0.030 | 0.030 | 0.378 | 0.097 | 0.068 | (0.033) | 0.022 | . | 0.042 | . | . | . | (0.006) |
| 1 | SS 605/2 | 0.400 | 0.345 | 0.054 | 0.015 | 0.54 | (0.06) | (0.05) | (0.06) | 0.027 | . | . | . | . | (0.008) | (0.01) |
| 1 | IRSID 1644 | 0.394 | 0.594 | 0.021 | 0.031 | 0.287 | 0.265 | 0.158 | 0.138 | (0.017) | . | . | . | . | . | . |
| 1 | ECRM 084-1D | 0.391 | 0.860 | . | 0.029 | 0.265 | 0.267 | 0.154 | . | . | . | . | . | . | . | 0.033 |
| 1 | IRSID 1645 | 0.388 | 0.610 | 0.021 | 0.030 | 0.286 | 0.261 | 0.157 | 0.140 | 0.015 | (0.0124) | . | . | . | . | . |
| 1 | IRSID 1649 | 0.384 | 0.930 | 0.045 | (0.047) | 0.250 | 0.418 | 0.226 | 0.321 | 0.004 | . | 0.037 | . | . | . | 0.043 |
| 1 | SS 460/2 | 0.383 | 0.616 | 0.0374 | 0.0099 | 0.126 | . | . | 0.024 | (0.019) | . | . | 0.0027 | . | 0.0106 | . |
| 1 | VS RG30 | 0.38 | 0.357 | . | 0.013 | 0.45 | 0.161 | 0.62 | 3.06 | . | . | . | . | . | 0.50 | 0.62 |
| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Als | As | B | Ca | Co | Mo |
| 1 | IRSID 1655 | 0.355 | 1.018 | (0.018) | (0.060) | 0.443 | 0.415 | 0.188 | 0.157 | (0.004) | . | (0.036) | . | . | . | (0.043) |
| 1 | IRSID 1663 | 0.353 | 0.967 | 0.0090 | 0.034 | 0.235 | 0.180 | 0.148 | 0.206 | 0.037 | . | 0.028 | . | . | . | 0.042 |
| 1 | VS UG90 | 0.34 | 0.286 | 0.0079 | 0.012 | 0.221 | 0.200 | 0.265 | 0.261 | 0.037 | 0.032 | 0.0044 | . | . | . | 0.046 |
| 1 | VS UG19/6 | 0.34 | 0.274 | (0.03) | (0.03) | 0.136 | 0.148 | 0.262 | 0.227 | . | . | . | . | . | . | . |
| 1 | IARM 360A | 0.331 | 0.733 | 0.008 | 0.023 | 0.260 | 0.235 | 0.078 | 0.113 | 0.0016 | . | 0.0060 | 0.0004 | 0.0017 | 0.0067 | 0.024 |
| 1 | BS 1030 | 0.331 | 0.682 | 0.0101 | 0.0299 | 0.261 | 0.269 | 0.078 | 0.124 | 0.0014 | . | 0.0055 | 0.0003 | 0.0012 | 0.0069 | 0.0182 |
| 1 | IARM 209D | 0.322 | 0.68 | 0.0084 | 0.021 | 0.268 | 0.243 | 0.079 | 0.137 | (0.003) | . | 0.0060 | 0.0002 | 0.002 | 0.007 | 0.037 |
| 1 | IRSID 1653 | 0.312 | 0.962 | 0.034 | (0.039) | 0.400 | 0.453 | 0.218 | 0.358 | <0.004 | . | (0.039) | . | . | . | (0.038) |
| 1 | VS RG27 | 0.30 | 0.97 | 0.054 | 0.0032 | 0.42 | 0.188 | 0.135 | 1.53 | 0.88 | . | . | . | . | 0.071 | 0.222 |
| 1 | IRSID 1654 | 0.270 | 0.979 | 0.036 | (0.047) | 0.354 | 0.441 | 0.241 | 0.328 | . | . | 0.040 | . | . | . | (0.043) |
| 1 | SS 434/2 | 0.27 | 1.54 | 0.06 | 0.014 | 0.51 | . | 0.038 | 0.24 | . | . | . | . | . | . | . |
| 1 | IARM 359A | 0.267 | 0.686 | 0.0094 | 0.020 | 0.233 | 0.186 | 0.068 | 0.121 | 0.002 | . | 0.0073 | 0.0003 | 0.0013 | 0.0069 | 0.023 |
| 1 | BS 1026 | 0.260 | 0.715 | 0.0171 | 0.0191 | 0.268 | 0.247 | 0.096 | 0.163 | 0.0330 | . | 0.0100 | (0.0002) | 0.0017 | 0.0072 | 0.0289 |
| 1 | VS UG94 | 0.26 | 0.186 | 0.0037 | 0.0026 | 0.101 | 0.088 | 0.178 | 0.206 | 0.017 | . | . | . | . | . | 0.0005 |
| 1 | VS UG18/6 | 0.242 | 0.213 | (0.003) | (0.003) | 0.20 | 0.063 | 0.273 | 0.237 | . | . | . | . | . | . | . |
| 2 | HRT FE2016-N | 0.23 | 0.85 | 0.015 | 0.011 | 0.32 | 0.02 | 0.15 | 0.21 | 0.033 | . | . | . | . | . | . |
| 1 | BS 1020 | 0.210 | 0.588 | 0.0058 | 0.0249 | 0.250 | 0.184 | 0.059 | 0.109 | 0.0006 | . | 0.0074 | (0.0001) | 0.0022 | 0.0070 | 0.018 |
| 1 | IARM 213C | 0.201 | 0.922 | 0.007 | 0.025 | 0.25 | 0.149 | 0.068 | 0.099 | 0.0019 | . | 0.0058 | 0.0003 | 0.0014 | 0.0074 | 0.022 |
| 1 | IRSID 1664 | 0.2008 | 0.472 | 0.0106 | 0.0259 | 0.0616 | 0.0820 | 0.0547 | 0.0707 | . | 0.0193 | 0.0115 | (0.0002) | (0.0005) | (0.0084) | 0.0157 |
| 1 | VS RG25/1 | 0.196 | 0.29 | 0.019 | 0.0088 | 0.100 | 0.065 | 0.037 | 0.060 | 0.067 | . | . | . | . | 0.012 | 0.010 |
| 1 | BS 1018 * | 0.19 | 0.80 | 0.013 | 0.026 | 0.23 | 0.13 | 0.11 | 0.18 | 0.03 | . | <0.005 | <0.005 | <0.005 | <0.05 | 0.05 |
| 1 | BS LF2B | 0.176 | 1.05 | 0.007 | 0.0067 | 0.209 | 0.318 | 0.115 | 0.138 | 0.0287 | . | 0.0052 | (0.0002) | 0.0010 | 0.0071 | 0.0382 |
| 1 | 12X 10180C | 0.171 | 0.803 | 0.0150 | 0.0200 | 0.147 | 0.0500 | 0.0284 | 0.0793 | 0.0198 | . | 0.0029 | . | . | . | 0.0047 |
| 1 | BS 1016 * | 0.17 | 0.77 | 0.01 | 0.03 | 0.19 | 0.15 | 0.11 | 0.09 | 0.02 | . | 0.006 | <0.005 | <0.005 | 0.02 | 0.04 |
| 1 | NM 3404.01 | 0.17 | 0.66 | 0.025 | 0.021 | 0.19 | . | 0.007 | 0.010 | . | . | . | . | . | . | . |
| 1 | 12X 10180B | 0.169 | 0.722 | 0.0101 | 0.0056 | 0.114 | 0.0544 | 0.0333 | 0.0451 | 0.043 | . | 0.0059 | . | . | . | 0.062 |
| 2 | TL 1000 | 0.1692 | 1.4281 | 0.0142 | 0.0164 | 0.2258 | 0.0120 | 0.0312 | 0.0635 | 0.0226 | . | (0.0016) | 0.00018 | 0.00039 | 0.0042 | 0.0076 |
| 1 | VS RG25 | 0.167 | 0.131 | 0.014 | . | 0.084 | . | 0.046 | 0.057 | 0.015 | . | . | . | . | . | 0.0028 |
| 1 | VS UG124 | 0.165 | 1.41 | 0.019 | 0.032 | 0.384 | 0.020 | 0.015 | 0.035 | 0.039 | . | . | . | . | . | . |
| 1 | VS UG109 | 0.161 | 0.353 | 0.020 | 0.0037 | 0.151 | 0.082 | 0.0053 | 0.048 | 0.0093 | . | . | . | . | . | . |
| 1 | BS 2931B | 0.159 | 0.788 | 0.0108 | 0.0292 | 0.207 | 0.098 | 0.083 | 0.080 | 0.0191 | . | 0.0033 | 0.0002 | 0.0002 | 0.0056 | 0.0329 |
| 1 | SS 456/2 | 0.112 | 0.220 | 0.0212 | 0.0221 | 0.297 | . | 0.0 | | | | | | | | |

CARBON STEEL

CONTINUED FROM THE PREVIOUS PAGE

| Number | N | Nb | O | Pb | Sb | Sn | Ti | V | W | Zn | Zr | Units |
|--------------|----------|--------------|----------|--------------|--------------|----------------------|----------|--------------|----------|----------------------|---------------|---|
| IRSID 1660 | . | . | . | . | . | . | . | . | . | . | . | 37 mm \emptyset x 30 mm |
| ECRM 090-1D | 0.0146 | 0.00043 | . | 0.00239 | 0.00090 | . | . | 0.204 | . | 0.00209 | . | 38 mm \emptyset x 25 or 30 mm |
| SRM 1227 | . | . | . | . | . | . | . | 0.002 | . | . | . | 32 mm \emptyset x 19 mm |
| SS 602/2 | . | . | . | . | . | . | . | (0.001) | . | . | (<0.005) | 44 mm \emptyset x 19 mm |
| BS 64C | 0.0084 | (<0.003) | . | . | . | (0.001) | (0.002) | 0.005 | . | . | . | 44 mm \emptyset x ~7 or 19+ mm |
| HRT FE2014-N | 0.0052 | . | . | . | . | . | . | 0.066 | . | . | . | ~35mm \emptyset x 20 mm |
| ECRM 056-2D | . | . | . | . | . | . | . | . | . | . | . | 44 mm \emptyset x 25 or 30 mm |
| SRM 1224 | . | . | . | . | . | . | . | 0.002 | . | . | . | 32 mm \emptyset x 19 mm |
| VS RG28 | . | 0.029 | . | . | . | . | 0.0041 | 0.022 | 0.006 | . | . | ~45 mm \emptyset x ~28mm |
| VS RG28/1 | . | 0.041 | . | . | . | . | 0.022 | 0.035 | 0.0041 | . | . | ~45 mm \emptyset x ~28mm |
| IARM 373A | 0.0088 | 0.001 | 0.002 | (0.001) | (0.002) | 0.0069 | 0.0017 | 0.023 | (0.002) | (0.003) | (0.003) | 31 mm \emptyset x 2 or 18 mm |
| VS UG20/6 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm \emptyset x ~28 mm |
| NM 3405.01 | . | . | . | . | . | . | . | . | . | . | . | 40 mm \emptyset x 20 mm |
| SS 435/1 | . | 0.039 | . | . | . | . | . | . | . | . | . | 38 mm \emptyset x 19 mm |
| SS 435/2 | . | 0.13 | . | . | . | . | . | . | . | . | . | 38 mm \emptyset x 19 mm |
| BS 56E | 0.0056 | (<0.002) | . | (0.0001) | 0.0004 | (0.0006) | (0.001) | (<0.002) | . | . | . | 44 mm \emptyset x ~7 or 19+ mm |
| IRSID 1636 | . | . | . | . | . | . | . | . | . | . | . | 48 mm \emptyset x 30 mm |
| SS 459/2 | . | 0.0102 | . | 0.0044 | 0.0121 | . | . | 0.0585 | . | (0.074) | . | 38 mm \emptyset x 19 mm |
| BS 56H | 0.0106 | 0.0009 | 0.0025 | 0.0004 | 0.0025 | 0.0124 | 0.0009 | 0.0295 | 0.0007 | Ta:0.0011 | (0.0007) | 38 mm \emptyset x ~7 or 19+mm 17025 |
| VS UG123 | 0.0078 | . | . | . | . | . | . | 0.0019 | . | . | . | ~45 mm \emptyset x ~28mm |
| IRSID 1657 | . | . | . | . | . | . | . | (0.001) | . | . | . | 42 mm \emptyset x 30 mm |
| IRSID 1648 | . | . | . | . | . | 0.033 | . | . | . | . | . | 40 mm \emptyset x 28 mm |
| 12X 10400A | 0.0133 | . | . | . | . | 0.0127 | . | . | . | 0.0033 | . | ~40 mm \emptyset x ~15 mm |
| NM EN-8 | . | . | . | . | . | . | . | . | . | . | . | 40 mm \emptyset x 20 mm |
| IRSID 1642 | . | . | . | . | . | . | . | (0.002) | . | . | . | 45 mm \emptyset x 30 mm |
| IRSID 1647 | . | . | . | . | . | . | . | . | . | . | . | 41 mm \emptyset x 30 mm |
| IRSID 1646 | . | . | . | . | . | . | . | . | . | . | . | 42 mm \emptyset x 30 mm |
| IARM 210D | 0.011 | 0.001 | 0.0034 | 0.001 | 0.002 | 0.010 | 0.0104 | 0.024 | (0.002) | . | (0.001) | 31 mm \emptyset x 2 or 18 mm |
| SS 434/1 | . | 0.078 | . | . | . | . | . | . | . | . | . | 38 mm \emptyset x 19 mm |
| IARM 349A | 0.0100 | 0.0012 | 0.003 | (0.001) | (0.003) | 0.015 | 0.0013 | 0.027 | 0.004 | (0.003) | (0.002) | 31 mm \emptyset x 2 or 18 mm |
| BS 3941 | 0.0069 | 0.033 | 0.0055 | 0.0010 | 0.0005 | 0.0019 | 0.0017 | 0.0025 | (0.0004) | . | (0.0003) | 41 mm \emptyset x ~7 or 19+ mm 17025 |
| IRSID 1652 | . | . | . | . | . | 0.030 | . | . | . | . | . | 45 mm \emptyset x 30 mm |
| IRSID 1637 | . | . | . | . | . | . | . | (0.002) | . | . | . | 45 mm \emptyset x 30 mm |
| SS 605/2 | . | . | . | . | . | . | . | (0.001) | . | . | (0.12) | 44 mm \emptyset x 19 mm |
| IRSID 1644 | . | . | . | . | . | . | . | . | . | . | . | 45 mm \emptyset x 30 mm |
| ECRM 084-1D | . | . | . | . | . | 0.023 | . | . | . | . | . | 38 mm \emptyset x 25 or 30 mm |
| IRSID 1645 | . | . | . | . | . | . | . | . | . | . | . | 45 mm \emptyset x 30 mm |
| IRSID 1649 | . | . | . | . | . | 0.028 | . | . | . | . | . | 40 mm \emptyset x 28 mm |
| SS 460/2 | . | 0.068 | . | 0.0005 | (0.0006) | . | . | 0.0322 | . | . | (<0.0005) | 38 mm \emptyset x 19 mm |
| VS RG30 | . | 0.139 | . | . | . | . | . | 0.63 | 0.91 | . | . | ~45 mm \emptyset x ~28mm |
| Number | N | Nb | O | Pb | Sb | Sn | Ti | V | W | Zn | Zr | Units |
| IRSID 1655 | . | . | . | . | . | 0.046 | . | . | . | . | . | 40 mm \emptyset x 34 mm |
| IRSID 1663 | . | . | . | . | . | 0.0143 | 0.051 | . | . | . | . | 44 mm \emptyset x 30 mm |
| VS UG90 | 0.015 | . | . | . | 0.0011 | . | 0.039 | . | . | . | . | ~47 mm \emptyset x ~30 mm |
| VS UG19/6 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm \emptyset x ~28 mm |
| IARM 360A | 0.0102 | 0.0015 | 0.004 | (0.001) | 0.0023 | 0.010 | 0.0010 | 0.039 | (0.001) | (0.003) | (0.001) | 31 mm \emptyset x 2 or 18 mm |
| BS 1030 | 0.0107 | (0.0004) | 0.005 | 0.0005 | 0.0024 | 0.0114 | 0.0005 | 0.031 | 0.0012 | . | (0.0002) | 38 mm \emptyset x ~7 or 19+ mm 17025 |
| IARM 209D | 0.0107 | 0.0014 | 0.005 | 0.001 | 0.004 | 0.012 | 0.0011 | 0.042 | (0.002) | (0.003) | . | 31 mm \emptyset x 2 or 18 mm |
| IRSID 1653 | . | . | . | . | . | 0.066 | . | . | . | . | . | 40 mm \emptyset x 34 mm |
| VS RG27 | . | . | . | . | . | . | . | 0.064 | 0.170 | . | . | ~45 mm \emptyset x ~28mm |
| IRSID 1654 | . | . | . | . | . | 0.030 | . | . | . | . | . | 40 mm \emptyset x 34 mm |
| SS 434/2 | 0.010 | 0.038 | . | . | . | . | . | . | . | . | . | 38 mm \emptyset x 19 mm |
| IARM 359A | 0.0094 | 0.002 | 0.0044 | (0.001) | (0.002) | 0.0100 | 0.0009 | 0.027 | (0.001) | . | (0.001) | 31 mm \emptyset x 2 or 18 mm |
| BS 1026 | 0.0083 | (0.0004) | 0.0031 | (0.0002) | 0.0019 | 0.0112 | (0.0004) | 0.0016 | 0.0021 | . | (0.0002) | 38 mm \emptyset x ~7 or 19+ mm 17025 |
| VS UG94 | . | . | . | . | . | . | 0.053 | (0.001) | . | . | . | ~40 mm \emptyset x ~28 mm |
| VS UG18/6 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm \emptyset x ~28 mm |
| HRT FE2016-N | 0.0055 | . | . | . | . | . | . | . | . | . | . | 35 mm \emptyset x 20 mm |
| BS 1020 | 0.0109 | (0.0003) | 0.0046 | (0.0002) | (0.0018) | 0.0090 | (0.0005) | 0.0363 | (0.0004) | . | (0.0005) | 44 mm \emptyset x ~7 or 19+ mm 17025 |
| IARM 213C | 0.0116 | 0.0011 | 0.0042 | 0.0011 | 0.002 | 0.0081 | 0.0010 | 0.035 | (0.002) | (0.006) | (0.0004) | 31 mm \emptyset x 2 mm |
| IRSID 1664 | 0.0072 | (0.0002) | . | 0.0002 | 0.0012 | 0.0108 | 0.0013 | (0.0005) | <0.002 | (0.0007) | (0.0001) | 37 mm \emptyset x 30 mm |
| VS RG25/1 | . | 0.016 | . | . | . | . | 0.055 | 0.0110 | . | . | . | ~45 mm \emptyset x ~28mm |
| BS 1018 * | 0.010 | <0.005 | 0.002 | <0.005 | * | Provisional Analysis | | | 0.001 | <0.005 | <0.05 | 38 mm \emptyset x ~7 or 19+ mm |
| BS LFB2B | 0.0078 | (0.0003) | 0.0024 | (0.0001) | 0.0018 | 0.0092 | 0.0009 | 0.0300 | 0.0027 | 17025 | Fe:97.9 | 38 mm \emptyset x ~7 or 19+ mm |
| 12X 10180C | 0.0052 | . | . | . | . | 0.0024 | . | . | . | 0.0005 | . | ~40 mm \emptyset x ~15 mm |
| BS 1016 * | <0.05 | 0.001 | <0.05 | <0.05 | . | 0.01 | 0.001 | 0.001 | * | Provisional Analysis | | Hexagon ~60 mm \emptyset x 19+ mm |
| NM 3404.01 | . | . | . | . | . | . | . | . | . | . | . | 40 mm \emptyset x 20 mm last |
| 12X 10180B | 0.0071 | . | . | . | . | 0.0065 | . | . | . | 0.0079 | . | ~40 mm \emptyset x ~15 mm |
| TL 1000 | (0.0093) | 0.0293 | . | Mg:(0.00005) | . | (0.00106) | 0.0011 | (0.0033) | (0.0002) | . | . | 36 mm \emptyset x 20 mm |
| VS RG25 | . | . | . | . | . | . | 0.039 | . | . | . | . | ~48 mm \emptyset x ~28mm |
| VS UG124 | 0.0072 | . | . | . | . | . | . | 0.0043 | . | . | . | ~45 mm \emptyset x ~28mm |
| VS UG109 | . | . | . | . | . | . | 0.071 | . | . | . | . | ~45 mm \emptyset x ~25 mm |
| BS 2931B | 0.0076 | 0.0011 | 0.0021 | (0.00004) | 0.0012 | 0.0062 | 0.0008 | 0.0014 | 0.0007 | Mg:0.0001 | 0.0005 | 38 mm \emptyset x ~7 or 19 mm 17025 last |
| SS 456/2 | . | 0.0057 | . | 0.0189 | 0.0172 | . | . | 0.0221 | . | . | (0.014) | 38 mm \emptyset x 19 mm |
| DSZU C041 | 0.0046 | 0.0017 | . | . | . | 0.0038 | 0.0019 | 0.003 | (0.003) | . | . | 40 mm \emptyset x 25 mm |
| SS 432/1 | . | <0.002 | . | . | . | . | . | . | . | . | . | 38 mm \emptyset x 19 mm |
| SS 601/2 | . | . | . | . | . | . | . | (0.002) | . | . | (<0.005) | 44 mm \emptyset x 19 mm |
| VS UG93 | . | . | . | . | . | . | 0.075 | 0.0008 | . | . | . | ~40 mm \emptyset x ~28 mm |
| VS UG17/6 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm \emptyset x ~28 mm |
| SS 433/2 | . | 0.06 | . | . | . | . | . | . | . | . | . | 38 mm \emptyset x 19 mm |
| IRSID 1661 | . | . | . | . | (0.0005) | (0.0085) | . | . | . | . | . | 40 mm x 42 mm x 30 mm |
| VS UG125 | 0.0112 | . | . | . | . | . | . | 0.035 | . | . | . | ~45 mm \emptyset x ~28mm |
| VS UG108 | . | . | . | . | . | . | 0.071 | . | 0.074 | . | . | ~45 mm \emptyset x ~25 mm |
| SRM 1228 | . | . | . | . | . | . | . | <0.001 | . | . | . | 32 mm \emptyset x 19 mm |
| ECRM 057-2D | 0.0023 | . | . | . | . | . | . | . | . | . | . | 38 mm \emptyset x 25 or 30 mm |
| BS XCCS-1 | 0.0052 | (0.001) | . | (0.0006) | (0.0005) | 0.0002 | 0.0015 | 0.0012 | (0.003) | . | 0.0006 | ~40 mm \emptyset x ~30 mm 17025 |
| BS XCCS | 0.0047 | (<0.002) | (0.0027) | (<0.001) | (0.0006) | 0.006 | (0.0005) | (<0.002) | . | . | (<0.002) | 36 mm \emptyset x 13-37 mm last |
| VS RG26/1 | . | 0.0056 | . | . | . | . | 0.100 | 0.0113 | . | . | . | ~45 mm \emptyset x ~28mm |
| NM PC-1 | . | . | . | . | . | . | . | . | . | . | . | 40 mm \emptyset x 20 mm |
| DSZU C03 | . | (0.002) | . | (0.009) | (0.003) | 0.011 | 0.002 | 0.004 | (0.009) | (0.0037) | (0.0006) | 40 mm \emptyset x 30 mm |
| VS RG26 | . | . | . | . | . | . | 0.121 | . | 0.0058 | . | . | ~45 mm \emptyset x ~28mm |
| SS 431/2 | 0.005 | 0.004 | . | . | . | . | . | . | . | . | . | 38 mm \emptyset x 19 mm |
| SS 111 | 0.0034 | (0.0005) | . | . | . | 0.0015 | 0.0004 | 0.0009 | . | . | . | 44 mm \emptyset x 19 mm |
| SS 111A | 0.0034 | (0.0005) | . | (<0.001) | (<0.001) | 0.0015 | 0.0004 | 0.0009 | . | . | (<0.001) | 44 mm \emptyset x 19 mm last |
| DSZU C040 | 0.0071 | (0.0004) | . | . | . | (0.0001) | 0.0010 | (0.001) | (0.002) | . | . | 40 mm \emptyset x 25 mm |
| RM Fe 1/5 | 0.002 | <0.005 | . | <0.002 | . | 0.0008 | <0.0005 | <0.0005 | 0.002 | . | <0.005 | 40 mm \emptyset x 40 mm |
| VS UG2/5 | . | (0.002) | . | . | . | . | (0.01) | 0.005 | (0.02) | . | . | ~45 mm \emptyset x ~28 mm |
| SS 432/2 | 0.007 | 0.018 | . | . | . | . | . | . | . | . | . | 38 mm \emptyset x 19 mm |
| VS 005 | . | . | . | . | . | 0.0021 | 0.0047 | . | | | | |

ARSENIC AND ANTIMONY IN STEEL

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

| # | Number | As | Sb | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Als | Co | Mo | Sn | Ti |
|---|-----------------|--------|---------|--------|--------|---------|--------|--------|--------|---------|---------|---------|-------|--------|---------|--------|---------|
| 1 | VS UG87 | 0.116 | 0.0012 | 0.59 | 1.18 | 0.026 | 0.022 | 1.25 | 0.030 | 0.50 | 0.260 | 0.024 | 0.02 | . | 0.044 | . | 0.103 |
| 1 | 12X 12749W | 0.071 | . | 0.132 | 1.250 | 0.0257 | 0.101 | 0.298 | 0.311 | 0.485 | 0.554 | 0.004 | . | 0.436 | 0.224 | 0.040 | 0.031 |
| 1 | SS 454/1 | 0.070 | . | 0.376 | 0.80 | 0.061 | 0.047 | 0.31 | 0.051 | 0.069 | 0.062 | . | . | . | 0.20 | 0.054 | 0.010 |
| 1 | 12X 15266V * | 0.07 | . | 0.45 | 1.26 | 0.034 | 0.026 | 0.66 | 0.23 | 1.31 | 3.4 | 0.52 | . | 0.3 | 0.3 | 0.01 | . |
| 1 | IMZ 120 | 0.065 | 0.031 | 0.60 | 0.40 | (0.049) | 0.026 | 0.34 | 0.10 | 0.085 | 0.20 | 0.033 | . | . | . | 0.008 | . |
| 1 | IRSID 1656 | 0.055 | . | 0.477 | 0.730 | 0.027 | 0.013 | 0.277 | . | (0.048) | (0.017) | (0.002) | . | . | (0.007) | . | . |
| 1 | 12X 15260W | 0.055 | . | 0.352 | 2.08 | 0.0275 | 0.074 | 0.485 | 0.152 | 0.453 | 2.98 | 0.191 | . | 0.0884 | 0.098 | 0.0094 | . |
| 1 | 12X 350B | 0.053 | . | 0.138 | 0.706 | 0.029 | 0.0363 | 0.672 | 0.150 | 0.162 | 0.392 | 0.341 | . | 0.0206 | 0.149 | 0.0298 | 0.099 |
| 1 | 12X 353G * | 0.05 | 0.14 | 0.11 | 0.71 | 0.008 | 0.015 | 0.21 | 0.23 | 0.21 | 0.71 | 0.05 | . | 0.025 | 0.11 | 0.12 | 0.04 |
| 1 | 12X 12746U | 0.049 | . | 0.0132 | 1.70 | 0.0247 | 0.064 | 0.183 | 0.368 | 0.161 | 0.182 | 0.021 | . | 0.115 | 0.654 | 0.202 | 0.0283 |
| 1 | 12X 358A * | 0.04 | 0.13 | 0.13 | 0.7 | 0.01 | 0.015 | 0.2 | 0.2 | 0.2 | 0.63 | 0.06 | . | 0.04 | 0.1 | 0.12 | 0.05 |
| 1 | 12X 355C | 0.0331 | 0.0796 | 0.159 | 0.508 | 0.0214 | 0.0241 | 0.494 | 0.657 | 0.0710 | 0.113 | 0.1104 | . | 0.0495 | 0.1010 | 0.0564 | 0.153 |
| 1 | 12X 354B * | 0.022 | . | 0.25 | 5.06 | 0.05 | 0.01 | 0.2 | 0.06 | 0.08 | 0.047 | 0.014 | . | 0.025 | 0.03 | 0.016 | 0.027 |
| 1 | ECRM 055-2D | 0.0187 | 0.00376 | 0.5199 | 0.687 | 0.0102 | 0.0205 | 0.3094 | 0.2089 | 0.3121 | 0.3217 | . | . | 0.0257 | 0.0960 | 0.0162 | 0.00104 |
| 1 | 12X 357C | 0.0147 | 0.0140 | 0.270 | 0.220 | 0.0101 | 0.0590 | 0.153 | 0.265 | 0.0954 | 0.094 | 0.208 | . | 0.199 | 0.0105 | 0.0188 | 0.0569 |
| 1 | BS 1030 | 0.0055 | 0.0024 | 0.331 | 0.682 | 0.0101 | 0.0299 | 0.261 | 0.269 | 0.078 | 0.124 | 0.0014 | . | 0.0069 | 0.0182 | 0.0114 | 0.0005 |
| 1 | VS UG90 | 0.0044 | 0.0011 | 0.34 | 0.286 | 0.0079 | 0.012 | 0.221 | 0.200 | 0.265 | 0.261 | 0.037 | 0.032 | . | 0.046 | . | 0.039 |
| 1 | VS UG89 | 0.0043 | 0.0011 | 0.92 | 0.76 | 0.0085 | 0.01 | 0.385 | 0.373 | 0.51 | 0.420 | 0.01 | 0.007 | . | 0.044 | . | 0.012 |
| 1 | BS 2931B | 0.0033 | 0.0012 | 0.159 | 0.788 | 0.0108 | 0.0292 | 0.207 | 0.098 | 0.083 | 0.080 | 0.0191 | . | 0.0056 | 0.0329 | 0.0062 | 0.0008 |
| 1 | VS UG92 | 0.0027 | 0.0005 | 0.69 | 0.79 | 0.05 | 0.0029 | 1.98 | 0.111 | 0.155 | 0.200 | 0.091 | 0.08 | . | 0.119 | . | 0.022 |
| 1 | IRSID 1670 | 0.0018 | . | 0.0011 | 0.3981 | 0.0128 | 0.0075 | 0.0046 | 0.0134 | 0.0142 | 0.0174 | 0.0479 | . | 0.0018 | 0.0009 | 0.0017 | 0.0078 |
| 1 | VS UG88 | 0.0007 | 0.0003 | 0.62 | 1.26 | 0.0026 | 0.0043 | 1.22 | 0.171 | 0.52 | 0.474 | 0.01 | 0.009 | . | 0.104 | . | 0.107 |
| 1 | VS UG91 | 0.0004 | 0.00009 | 0.49 | . | 0.0038 | 0.0021 | 2.23 | 0.057 | 0.039 | 0.064 | 0.048 | 0.048 | . | 0.058 | . | 0.038 |
| 1 | SS 458/2 | . | 0.089 | 0.198 | 0.479 | 0.0281 | 0.0314 | 0.504 | . | . | . | 0.055 | 0.053 | 0.198 | . | . | . |
| 1 | SS 457/2 | . | 0.050 | 0.307 | 0.327 | 0.0098 | 0.0448 | 0.105 | . | . | . | 0.088 | 0.084 | 0.0217 | . | . | . |

| Number | B | Bi | Ca* | Ce* | Mg* | N | Nb | O* | Pb | Se | Ta | V | W | Zn | Zr | Units |
|-----------------|------------------------|--------|-----|-----|-----|---------|----------|-------|-----------|---------|----------|----------|--------|--------|----------|-------------------------------------|
| VS UG87 | . | . | . | . | . | 0.010 | . | . | 0.00008 | . | . | 0.0038 | . | . | . | ~47 mm Ø x ~30 mm |
| 12X 12749W | . | . | . | . | . | . | . | . | . | . | . | 0.069 | 0.034 | . | . | ~40 mm Ø x ~15 mm |
| SS 454/1 | . | . | . | . | . | . | . | . | (0.0001) | . | . | . | 0.15 | . | . | 38 mm Ø x 19 mm |
| 12X 15266V * | * Provisional Analysis | . | . | . | . | . | 1.45 | . | . | 0.12 | 0.11 | . | . | . | . | ~40 mm Ø x ~15 mm |
| IMZ 120 | . | . | . | . | . | 0.0115 | . | . | 0.077 | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| IRSID 1656 | . | . | . | . | . | . | . | . | . | . | . | (0.002) | . | . | . | 40 mm Ø x 35 mm |
| 12X 15260W | . | . | . | . | . | . | 0.254 | . | . | . | (0.016) | 0.442 | . | . | . | ~40 mm Ø x ~15 mm |
| 12X 350B | . | . | . | . | . | . | . | . | . | . | 0.0286 | 0.275 | . | . | . | 40 mm Ø x 15 mm |
| 12X 353G * | * Provisional Analysis | . | . | . | . | . | 0.06 | 0.012 | 0.02 | 0.02 | 0.14 | . | . | 0.035 | . | ~40 mm Ø x ~15 mm |
| 12X 12746U | . | . | . | . | . | 0.0218 | . | . | . | . | 0.0160 | 0.101 | . | . | . | 40 mm Ø x 15 mm |
| 12X 358A * | * Provisional Analysis | . | . | . | . | . | 0.11 | . | . | 0.1 | . | 0.03 | 0.12 | . | 0.01 | ~40 mm Ø x ~15 mm |
| 12X 355C | (0.0012) | . | . | . | . | 0.0023 | 0.023 | . | . | 0.0395 | . | 0.1265 | 0.037 | . | 0.0192 | ~40 mm Ø x ~15 mm |
| 12X 354B * | * Provisional Analysis | . | . | . | . | . | 0.08 | . | . | . | 0.021 | 0.028 | . | . | 0.03 | ~40 mm Ø x ~15 mm |
| ECRM 055-2D | . | . | . | . | . | 0.01069 | . | . | . | . | 0.00245 | 0.0166 | . | . | . | 38 mm Ø x 25 or 30 mm |
| 12X 357C | 0.0102 | 0.0058 | . | . | . | 0.0079 | 0.0051 | . | 0.0315 | (0.004) | . | 0.166 | 0.0194 | 0.0094 | . | ~40 mm Ø x ~15 mm |
| BS 1030 | 0.0003 | . | 12 | . | (2) | 0.0107 | (0.0004) | 50 | 0.0005 | . | (0.001) | 0.031 | 0.0012 | . | (0.0002) | 38 mm Ø x ~7 or 19+ mm 17025 |
| VS UG90 | . | . | . | . | . | 0.015 | . | . | . | . | . | . | . | . | . | ~47 mm Ø x ~30 mm |
| VS UG89 | . | . | . | . | . | 0.017 | 0.0043 | . | 0.0003 | . | . | 0.021 | . | . | . | ~47 mm Ø x ~30 mm |
| BS 2931B | 0.0002 | . | 2 | . | 1 | 0.0076 | 0.0011 | 21 | (0.00004) | . | (0.0004) | 0.0014 | 0.0007 | last | 0.0005 | 38 mm Ø x ~7 or 19 mm 17025 |
| VS UG92 | . | . | . | . | . | 0.016 | 0.034 | . | 0.00017 | . | . | 0.024 | . | . | . | ~47 mm Ø x ~30 mm |
| IRSID 1670 | 0.0007 | . | . | (2) | . | 0.0016 | (0.0003) | . | . | . | . | (0.0005) | . | . | . | 37 mm Ø x 30 mm |
| VS UG88 | . | . | . | . | . | 0.020 | 0.059 | . | 0.00015 | . | . | 0.117 | . | . | . | ~47 mm Ø x ~30 mm |
| VS UG91 | . | . | . | . | . | 0.010 | 0.097 | . | 0.00006 | . | . | 0.049 | . | . | . | ~47 mm Ø x ~30 mm |
| SS 458/2 | 0.0069 | . | . | . | . | . | 0.0510 | . | 0.0140 | . | . | 0.105 | . | . | (0.064) | 38 mm Ø x 19 mm |
| SS 457/2 | 0.0046 | . | . | . | . | . | 0.0174 | . | 0.0098 | . | . | 0.153 | . | . | 0.025 | 38 mm Ø x 19 mm |

BISMUTH AND SELENIUM STEEL

= Class, where 1 = CRM and 2 = RM

12X: ~31-40 mm Ø x ~13-15 mm CKD: 44 mm Ø x 13 mm
BS 4142SE: 38 mm Ø x 12 mm other BS: 38 mm Ø x ~7 or 19+ mm

| # | Number | Bi | Se | C | Mn | P | S | Si | Cu | Ni | Cr | Al | As | Co | Mo | N |
|---|------------|--------|--------|-------|-------|--------|--------|--------|-------|--------|-------|--------|---------|--------|--------|--------|
| 2 | BS 4140A | 0.105 | . | 0.40 | 0.84 | 0.021 | 0.076 | 0.21 | 0.15 | 0.15 | 0.97 | 0.016 | 0.005 | 0.010 | 0.16 | 0.0098 |
| 2 | BS 53MOD | 0.102 | . | 1.01 | 0.36 | 0.011 | 0.012 | 0.26 | 0.070 | 0.072 | 1.37 | 0.019 | 0.004 | 0.007 | 0.024 | 0.0086 |
| 2 | BS 4140B | 0.087 | . | 0.43 | 0.76 | 0.027 | 0.037 | 0.20 | 0.006 | 0.012 | 0.84 | 0.036 | (0.002) | 0.005 | 0.16 | 0.0064 |
| 2 | BS 4150MOD | 0.070 | . | 0.47 | 0.90 | 0.024 | 0.079 | 0.21 | 0.19 | 0.15 | 1.01 | 0.012 | 0.005 | 0.012 | 0.21 | 0.0087 |
| 2 | CZ CM-16A | 0.039 | . | 0.355 | 0.92 | 0.043 | 0.033 | 0.77 | 0.293 | 0.72 | 0.70 | 0.125 | 0.058 | 0.056 | 0.405 | 0.015 |
| 1 | 12X 356C | 0.0072 | 0.0059 | 0.211 | 0.199 | 0.0526 | 0.0341 | 0.0662 | 0.449 | 0.0349 | 0.253 | 0.0338 | 0.0253 | 0.1499 | 0.0294 | 0.0061 |

| Number | B | Ca | Nb | O | Pb | Sb | Sn | Ti | V | W | Zn | Zr |
|------------|--------|----------|--------|----------|---------|--------|---------|---------|--------|-------|--------|-------|
| BS 4140A | . | (0.0003) | . | (0.0025) | (0.001) | . | 0.011 | (0.003) | 0.004 | . | . | . |
| BS 53MOD | . | (0.001) | . | (0.002) | 0.0005 | . | 0.008 | . | 0.005 | . | . | . |
| BS 4140B | . | (0.0002) | . | (0.002) | 0.004 | . | (0.002) | 0.003 | 0.005 | . | . | . |
| BS 4150MOD | . | 0.0010 | . | (0.003) | 0.0010 | . | 0.013 | (0.002) | 0.008 | . | . | . |
| CZ CM-16A | 0.012 | 0.0006 | 0.066 | . | 0.053 | 0.027 | 0.025 | 0.099 | 0.319 | 0.141 | 0.021 | 0.062 |
| 12X 356C | 0.0010 | . | 0.0030 | . | 0.0238 | 0.0291 | 0.0365 | 0.0252 | 0.0588 | 0.107 | 0.0099 | . |

CALCIUM IN STEEL

= Class, where 1 = CRM and 2 = RM

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

| # | Number | Ca | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Als | Co | Mo | N | V |
|---|-------------------|---------|---------|--------|---------|---------|--------|--------|--------|--------|---------------|--------|--------|--------|--------|----------|
| 1 | BS HiCal-1 | 0.0140 | 0.271 | 1.00 | (0.007) | 0.0007 | 1.29 | 0.152 | 3.28 | 1.55 | 0.070 | . | 0.0024 | 0.379 | . | 0.0027 |
| 1 | SS 115 | 0.0058 | 0.6224 | 0.682 | 0.0123 | 0.00093 | 0.2078 | . | 0.0196 | 0.0198 | 0.0527 | . | . | . | 0.0067 | . |
| 1 | BS 9325A | 0.0039 | 0.203 | 0.969 | 0.0079 | 0.0045 | 0.612 | 0.163 | 3.29 | 1.50 | 0.0056 | . | 0.0093 | 0.358 | 0.0076 | (0.0024) |
| 1 | ECRM 194-1D | 0.0026 | 0.1532 | 1.188 | 0.0097 | 0.0006 | 0.431 | 0.0751 | 0.3417 | 0.733 | 0.0837 | . | . | 0.2857 | 0.0115 | 0.0243 |
| 1 | BS XCCS-1 | 0.0024 | 0.0441 | 0.356 | 0.0068 | 0.0022 | 0.292 | 0.0143 | 0.0132 | 0.0288 | 0.061 | . | 0.0017 | 0.0060 | 0.0052 | 0.0012 |
| 2 | HRT FE2006-N | 0.0022 | 0.090 | 1.13 | 0.013 | 0.003 | 0.28 | 0.03 | 0.04 | 0.54 | 0.025 | . | . | (0.01) | . | 0.059 |
| 1 | BS 1020 | 0.0022 | 0.210 | 0.568 | 0.0058 | 0.0249 | 0.250 | 0.184 | 0.059 | 0.109 | 0.0006 | . | 0.0070 | 0.018 | 0.0109 | 0.0363 |
| 2 | HRT FE2009-N | 0.0020 | 0.12 | 0.55 | 0.010 | 0.003 | 0.32 | 0.08 | 0.25 | 2.56 | 0.030 | . | . | 1.02 | . | 0.015 |
| 1 | IRSID 1665 | 0.0017 | 0.1209 | 0.446 | 0.0104 | 0.0135 | 0.187 | 0.0469 | 0.0308 | 0.0363 | . | 0.0379 | 0.0046 | 0.0047 | 0.0049 | (0.0006) |
| 1 | BS 3941 | 0.0011 | 0.407 | 0.802 | 0.016 | 0.023 | 0.257 | 0.053 | 0.018 | 0.069 | 0.0019 | . | 0.0042 | 0.0061 | 0.0069 | 0.0025 |
| 1 | IARM 254A | 0.001 | 0.500 | 0.78 | 0.010 | 0.024 | 0.211 | 0.091 | 0.044 | 0.050 | 0.025 | . | 0.006 | 0.013 | 0.0096 | 0.002 |
| 2 | BS 4150MOD | 0.0010 | 0.47 | 0.90 | 0.024 | 0.079 | 0.21 | 0.19 | 0.15 | 1.01 | 0.012 | . | 0.012 | 0.21 | 0.0087 | 0.008 |
| 2 | BS 4330V | 0.0010 | 0.318 | 0.91 | 0.008 | 0.0009 | 0.240 | 0.181 | 1.91 | 0.91 | 0.021 | . | 0.011 | 0.475 | 0.0076 | 0.094 |
| 1 | BS 4130 | 0.0007 | 0.303 | 0.541 | 0.0105 | 0.0113 | 0.245 | 0.221 | 0.088 | 0.924 | 0.0242 | . | 0.0065 | 0.168 | 0.0072 | 0.0037 |
| 2 | BS 4942 | 0.0006 | 0.414 | 0.56 | 0.015 | 0.021 | 0.22 | 0.165 | 0.16 | 0.97 | (0.004) | . | 0.010 | 0.54 | 0.0080 | 0.28 |
| 2 | BS 2952 | 0.0003 | 1.03 | 0.33 | 0.013 | 0.014 | 0.32 | 0.106 | 0.135 | 1.36 | 0.024 | . | 0.007 | 0.044 | 0.0084 | 0.005 |
| 1 | BS PP20 | 0.0003 | 0.382 | 1.41 | 0.018 | 0.0070 | 0.262 | 0.119 | 1.00 | 1.94 | 0.0132 | . | 0.0145 | 0.212 | 0.0080 | 0.066 |
| 1 | IMZ 111 | 0.0003 | 0.106 | 0.31 | 0.010 | 0.039 | 0.55 | 0.036 | 0.23 | 0.072 | 0.017 | 0.007 | . | 0.084 | 0.0133 | 0.022 |
| 2 | TL 1669 | 0.00017 | 0.00226 | 0.0955 | 0.0137 | 0.0100 | 0.0093 | 0.0217 | 0.0160 | 0.0246 | 0.03553 (tot) | . | 0.0019 | 0.0011 | 0.0024 | (0.0006) |

| Number | As | B | Bi | Nb | O | Pb | Sb | Sn | Ti | W | Zr | Other |
|-------------------|--------|-----------|-------|----------|----------|-----------|----------|----------|----------|----------|------------|--|
| BS HiCal-1 | 0.0022 | (0.0001) | . | (0.002) | . | (0.0005) | . | (0.0002) | 0.0037 | (0.0009) | (0.0008) | ~38 mm Ø x ~30 mm |
| SS 115 | . | . | . | . | . | . | . | . | 0.0027 | . | . | 38 mm Ø x 19 mm |
| BS 9325A | 0.0024 | (0.0001) | . | 0.0017 | . | (0.0003) | Fe: 92.8 | (0.0003) | 0.0030 | 0.024 | (0.001) | ~40 mm Ø x ~30 mm |
| ECRM 194-1D | 0.0042 | 0.0020 | . | . | . | . | . | . | . | . | . | Disc 33 mm Ø x 33 mm or Block ~38x34x32 mm |
| BS XCCS-1 | 0.0024 | (0.0004) | . | (0.001) | Fe: 99.2 | (0.0006) | (0.0005) | 0.0002 | 0.0015 | (0.003) | 0.0006 | ~40 mm Ø x ~30 mm |
| HRT FE2006-N | . | . | . | . | . | . | . | . | 0.005 | 0.54 | . | 29 mm Ø x 20 mm |
| BS 1020 | 0.0074 | (0.0001) | . | (0.0003) | 0.0046 | (0.0002) | (0.0018) | 0.0090 | (0.0005) | (0.0004) | (0.0005) | 44 mm Ø x ~7 or 19+ mm |
| HRT FE2009-N | . | . | . | . | . | . | . | . | . | . | Zn: 0.004 | 40 mm Ø x 40 mm |
| IRSID 1665 | 0.0067 | (0.00032) | . | . | . | (0.0014) | (0.0008) | 0.0031 | (0.0008) | . | . | 37 mm Ø x 30 mm |
| BS 3941 | 0.0036 | (0.0001) | . | 0.033 | 0.0055 | 0.0010 | 0.0005 | 0.0019 | 0.0017 | (0.0004) | (0.0003) | 41 mm Ø x ~7 or 19+ mm |
| IARM 254A | 0.005 | 0.0002 | . | 0.001 | (0.003) | (0.0003) | . | 0.005 | 0.001 | (0.001) | (0.001) | 31 mm Ø x 2 mm |
| BS 4150MOD | 0.005 | . | 0.070 | . | (0.003) | 0.0010 | . | 0.013 | (0.002) | . | . | 38 mm Ø x ~7 or 19+ mm |
| BS 4330V | . | . | . | . | 0.0018 | . | . | 0.010 | . | . | . | 37 mm Ø x ~7 or 19+ mm |
| BS 4130 | 0.0048 | (0.0002) | . | 0.0015 | 0.0015 | (0.00003) | (0.0021) | 0.0099 | 0.0009 | 0.0011 | Mg: 0.0002 | 38 mm Ø x ~7 or 19+ mm |
| BS 4942 | 0.005 | . | . | . | (0.0021) | . | . | 0.014 | . | . | . | 38 mm Ø x ~7 or 19+ mm |
| BS 2952 | 0.004 | . | . | . | (0.002) | . | 0.003 | 0.006 | 0.003 | . | . | 44 mm Ø x ~7 or 19+ mm |
| BS PP20 | 0.0049 | 0.00011 | . | 0.0048 | (0.0010) | . | 0.0013 | 0.0069 | 0.0007 | 0.0058 | . | 38 mm Ø x ~7 or 19+ mm |
| IMZ 111 | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| TL 1669 | 0.0017 | 0.00038 | . | 0.00046 | . | 0.00013 | 0.00049 | 0.0071 | 0.0504 | . | (0.00021) | 38 mm Ø x 25 mm |
| | | | | | | | | | | | | Zn: 2.7* |

CRM Al, Ca, AND N IN LOW ALLOY STEEL

| Number | Al | Ca | N | Units |
|----------------|---------|----------|---------------|-----------------------------------|
| BS 9905 | 0.017 | (0.0001) | 0.055 | 38 mm Ø x ~7 mm 17025 last |
| IMZ 133 | . | . | 0.0360 | 40 mm Ø x 40 mm |
| IMZ 131 | 0.0043 | . | 0.0333 | 40 mm Ø x 40 mm |
| IMZ 135 | 0.0274 | 0.0008 | 0.0238 | 40 mm Ø x 40 mm |
| IMZ 169 | 0.075 | . | 0.0193 | 40 mm Ø x 40 mm |
| IMZ 141 | 0.0071 | . | 0.0154 | 40 mm Ø x 40 mm |
| IMZ 130 | 0.0046 | 0.0024 | 0.0153 | 40 mm Ø x 40 mm |
| IMZ 139 | (0.029) | 0.0031 | 0.0113 | 40 mm Ø x 40 mm |
| IMZ 132 | 0.0021 | 0.0002 | 0.0097 | 40 mm Ø x 40 mm |
| IMZ 137 | 0.0017 | 0.00025 | 0.0083 | 40 mm Ø x 40 mm |
| IMZ 140 | 0.0307 | 0.0015 | 0.0083 | 40 mm Ø x 40 mm |
| IMZ 138 | 0.0022 | . | 0.0063 | 40 mm Ø x 40 mm |
| IMZ 134 | 0.0124 | 0.0005 | . | 40 mm Ø x 40 mm |
| IMZ 136 | 0.0034 | 0.00031 | . | 40 mm Ø x 40 mm |

C-Mo and Cr-Mo STEEL XRF SET

= class, where 1 = CRM ISO 17025 and 2 = RM,

Set Part Number: BS MOLY-5

AVAILABLE INDIVIDUALLY

~7 mm discs

| # | Grade | Alloy | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | Co | N | Sn | V |
|---|-------------|-------|---------------|-------|-------|--------|--------|-------|-------|-------|-------|-------|--------|--------|----------|--------|-------|
| 2 | C-.5Mo | 4419 | BS 3952 | 0.208 | 0.546 | 0.011 | 0.021 | 0.264 | 0.202 | 0.112 | 0.105 | 0.519 | 0.048 | . | (0.0005) | . | . |
| 2 | 1.25Cr-.5Mo | F-11 | BS 45A | 0.133 | 0.46 | 0.016 | 0.022 | 0.69 | 0.17 | 0.15 | 1.16 | 0.52 | 0.032 | 0.009 | 0.0081 | 0.011 | 0.004 |
| 2 | 2.25Cr-1Mo | F-22 | BS 1982 | 0.128 | 0.441 | 0.012 | 0.026 | 0.255 | 0.177 | 0.197 | 2.09 | 0.89 | 0.021 | 0.010 | 0.0097 | 0.013 | 0.003 |
| 2 | 5Cr-.5Mo | F-5 | BS 47A | 0.130 | 0.44 | 0.017 | 0.015 | 0.27 | 0.11 | 0.12 | 4.22 | 0.47 | 0.015 | 0.011 | 0.018 | 0.008 | 0.016 |
| 1 | 9Cr-1Mo | F-9 | BS 48B | 0.110 | 0.365 | 0.0228 | 0.0068 | 0.75 | 0.070 | 0.165 | 8.78 | 0.949 | 0.0157 | 0.0165 | 0.0088 | 0.0049 | 0.033 |

CRM

EPMA SETS

available in sets only, as grouped

4x10x15mm

| Number | Cr | Number | Ni |
|-------------|-------|-------------|-------|
| NMIJ 1001-a | 5.00 | NMIJ 1006-a | 5.04 |
| NMIJ 1002-a | 14.96 | NMIJ 1007-a | 10.05 |
| NMIJ 1003-a | 19.87 | NMIJ 1008-a | 20.02 |
| NMIJ 1004-a | 29.84 | NMIJ 1009-a | 39.92 |
| NMIJ 1005-a | 39.69 | NMIJ 1010-a | 60.07 |

Cr-Mo STEEL (Cr > 1, Mo > 0.1)

= Class, where 1 = CRM and 2 = RM * Provisional Analysis

| # | Number | Cr | Mo | C | Mn | P | S | Si | Cu | Ni | Al | As | Co | N | Sn | V |
|---|-----------------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|---------|--------|---------|----------|----------|
| 1 | BS 48B | 8.78 | 0.949 | 0.110 | 0.36 | 0.0228 | 0.0068 | 0.75 | 0.070 | 0.165 | 0.0157 | 0.0048 | 0.0165 | 0.0088 | 0.0049 | 0.033 |
| 1 | BS 9905A | 8.75 | 0.95 | 0.113 | 0.465 | 0.0133 | 0.0040 | 0.34 | 0.091 | 0.152 | 0.0186 | 0.0065 | 0.0136 | 0.034 | 0.0060 | 0.216 |
| 1 | BS 9905 | 8.22 | 0.90 | 0.107 | 0.333 | 0.008 | 0.008 | 0.327 | 0.115 | 0.123 | 0.017 | 0.007 | 0.016 | 0.055 | 0.009 | 0.236 |
| 1 | BS H-13 | 5.14 | 1.24 | 0.402 | 0.386 | 0.0103 | 0.0202 | 0.99 | 0.197 | 0.109 | 0.0152 | 0.0066 | 0.0092 | 0.0108 | 0.0093 | 0.98 |
| 2 | HRT FE2012-H | 5.13 | 2.78 | 0.37 | 0.41 | 0.019 | 0.002 | 0.42 | 0.07 | 0.20 | | | | | | 0.42 |
| 2 | BS 47B | 4.78 | 0.45 | 0.122 | 0.39 | 0.014 | 0.022 | 0.22 | 0.12 | 0.105 | 0.018 | 0.004 | | 0.023 | 0.006 | 0.004 |
| 2 | BS 47A | 4.22 | 0.47 | 0.130 | 0.44 | 0.017 | 0.015 | 0.27 | 0.11 | 0.12 | 0.015 | | 0.011 | 0.018 | 0.008 | 0.016 |
| 1 | 12X 40CDV12A | 3.29 | 0.946 | 0.401 | 0.604 | 0.0060 | 0.0013 | 0.250 | 0.0978 | 0.1062 | 0.0208 | 0.0040 | 0.0197 | 0.0155 | 0.0049 | 0.198 |
| 1 | SRM 1772 | 3.10 | 1.39 | 0.477 | 0.61 | 0.008 | 0.0031 | 0.264 | 0.083 | 0.105 | | | | | | 0.236 |
| 1 | SS 407/2 | 3.03 | 0.83 | 0.490 | 0.195 | 0.038 | 0.0105 | 0.66 | 0.397 | 0.527 | 0.040 | | 0.0068 | (0.011) | | 0.19 |
| 2 | RM Fe D/7 | 2.97 | 1.21 | 0.85 | 0.21 | 0.019 | 0.013 | 1.03 | 0.06 | 0.12 | 0.15 | 0.004 | 0.32 | | (0.0030) | 0.05 |
| 2 | RM Fe D/5 | 2.72 | 1.41 | 0.85 | 0.31 | 0.022 | 0.023 | 1.18 | 0.11 | 0.12 | 0.22 | 0.005 | 0.32 | | 0.013 | 0.031 |
| 1 | IMZ 160 | 2.64 | 0.98 | 0.077 | 0.38 | 0.023 | 0.004 | 0.34 | 0.42 | 0.30 | 0.031 | | | | | 0.10 |
| 1 | IMZ 159 | 2.64 | 0.98 | 0.075 | 0.39 | 0.022 | 0.005 | 0.33 | 0.41 | 0.31 | 0.024 | | | | | 0.10 |
| 2 | HRT FE2009-N | 2.56 | 1.02 | 0.12 | 0.55 | 0.010 | 0.003 | 0.32 | 0.08 | 0.25 | 0.030 | | | | | 0.015 |
| 1 | IARM 196A | 2.35 | 0.129 | 1.08 | 2.40 | 0.040 | 0.014 | 0.35 | 0.25 | 0.61 | 0.015 | 0.025 | 0.013 | 0.0084 | 0.033 | 0.157 |
| 1 | SRM 1270 | 2.34 | 0.956 | 0.077 | 0.626 | 0.0065 | 0.0065 | 0.247 | 0.114 | 0.174 | | | 0.038 | | | 0.013 |
| 1 | BS 46B | 2.28 | 1.00 | 0.126 | 0.472 | 0.0087 | 0.0187 | 0.219 | 0.128 | 0.081 | 0.020 | 0.0041 | 0.0074 | 0.0100 | 0.0073 | 0.0073 |
| 1 | IMZ 169 | 2.20 | 1.03 | 0.099 | 0.54 | 0.015 | 0.0155 | 0.35 | 0.128 | 0.073 | 0.075 | | 0.012 | 0.0193 | 0.062 | (0.016) |
| 1 | ECRM 190-1D | 2.18 | 0.410 | 0.395 | 1.28 | 0.0112 | 0.0044 | 0.278 | | 0.934 | | | 0.034 | | | |
| 1 | SRM 1139a | 2.1 | 0.51 | 0.79 | 0.92 | 0.012 | 0.013 | 0.80 | 0.47 | 0.98 | | | | | | 0.26 |
| 1 | BS 1982 | 2.09 | 0.89 | 0.128 | 0.441 | 0.012 | 0.026 | 0.255 | 0.177 | 0.197 | 0.021 | 0.007 | 0.010 | 0.0097 | 0.013 | 0.003 |
| 1 | BS PP20 | 1.94 | 0.212 | 0.382 | 1.41 | 0.018 | 0.0070 | 0.262 | 0.119 | 1.00 | 0.0132 | 0.0049 | 0.0145 | 0.0080 | 0.0069 | 0.066 |
| 1 | BS 55G * | 1.8 | 0.42 | 0.38 | 0.85 | 0.011 | 0.003 | 0.57 | 0.11 | 0.13 | 0.012 | 0.006 | 0.009 | 0.008 | 0.008 | 0.006 |
| 1 | IRSID 1749 | 1.734 | 0.257 | 0.411 | 0.733 | 0.0104 | 0.0157 | 0.193 | 0.188 | 0.190 | 1.034 | 0.0134 | 0.0141 | 0.0066 | 0.0148 | (0.0036) |
| 1 | ECRM 129-3D | 1.702 | 0.206 | 0.3684 | 0.371 | 0.0110 | 0.0165 | 0.2087 | 0.0804 | 1.022 | 1.016 | 0.0049 | 0.0148 | 0.0046 | 0.0067 | |
| 1 | ECRM 195-1D | 1.56 | 0.77 | 0.757 | 0.571 | 0.017 | 0.012 | 0.467 | 0.036 | 0.33 | | | | 0.010 | | 0.31 |
| 1 | SRM 1286 | 1.53 | 0.344 | 0.196 | 0.152 | 0.008 | 0.017 | 0.130 | 0.043 | 2.81 | 0.109 | 0.019 | 0.116 | | 0.012 | 0.0057 |
| 2 | BS 68B | 1.51 | 0.309 | 0.39 | 0.52 | 0.010 | 0.020 | 0.26 | 0.163 | 0.165 | 1.08 | | 0.010 | 0.0073 | 0.010 | 0.007 |
| 1 | BS 68E | 1.49 | 0.322 | 0.406 | 0.560 | 0.005 | 0.0004 | 0.296 | 0.134 | 0.147 | 1.09 | (0.003) | 0.007 | 0.0030 | 0.0097 | 0.0010 |
| 1 | 12X 24065A | 1.412 | 0.1716 | 0.370 | 0.502 | 0.0129 | 0.0044 | 0.218 | 0.216 | 0.271 | 1.035 | 0.0074 | | 0.0076 | 0.0120 | 0.0040 |
| 2 | BS 58E | 1.40 | 0.110 | 0.100 | 0.63 | 0.009 | 0.002 | 0.29 | 0.154 | 3.22 | 0.029 | 0.003 | 0.013 | 0.0033 | 0.003 | 0.006 |
| 1 | 12X 15CDV6A | 1.397 | 0.875 | 0.171 | 0.839 | 0.0056 | 0.0086 | 0.152 | 0.0231 | 0.044 | 0.019 | 0.0041 | | 0.0069 | 0.0011 | 0.242 |
| 1 | SS 112 | 1.236 | 0.190 | 0.394 | 0.436 | 0.0043 | 0.0026 | 0.289 | 0.149 | 1.461 | 0.0148 | 0.0021 | 0.0175 | 0.0024 | 0.0086 | |
| 1 | 12X 43400A | 1.181 | 0.223 | 0.422 | 0.592 | 0.0164 | 0.0284 | 0.259 | 0.177 | 1.378 | 0.013 | 0.0084 | | 0.0089 | 0.007 | |
| 2 | BS 45A | 1.16 | 0.52 | 0.133 | 0.46 | 0.016 | 0.022 | 0.69 | 0.17 | 0.15 | 0.032 | 0.007 | 0.009 | 0.0081 | 0.011 | 0.004 |
| 1 | BS 45B | 1.14 | 0.60 | 0.140 | 0.502 | 0.0068 | 0.017 | 0.583 | 0.101 | 0.136 | 0.030 | 0.0066 | 0.0090 | 0.0066 | 0.0069 | 0.0083 |
| 1 | IRSID 1745 | 1.130 | 0.222 | 0.295 | 0.850 | 0.0077 | 0.081 | 0.220 | 0.202 | 0.188 | 0.0202 | 0.0262 | | | 0.0134 | (0.004) |
| 1 | 12X 11572A | 1.107 | 0.499 | 0.111 | 0.498 | 0.0069 | 0.0025 | 0.649 | 0.0576 | 0.0977 | 0.0290 | 0.0030 | | 0.0058 | 0.0049 | |
| 1 | 12X 14072A | 1.061 | 0.573 | 0.430 | 0.680 | 0.0151 | 0.0061 | 0.322 | 0.203 | 0.136 | 0.0039 | | 0.0098 | 0.0103 | (0.011) | 0.301 |
| 2 | BS 1962 | 1.05 | 0.229 | 0.41 | 0.94 | 0.007 | 0.011 | 0.242 | 0.224 | 0.16 | 0.018 | 0.007 | 0.008 | 0.0095 | 0.010 | 0.004 |
| 1 | IPT 501 | 1.05 | 0.210 | 0.277 | 0.723 | 0.016 | 0.030 | 0.208 | 0.083 | 0.063 | 0.034 | | 0.008 | 0.0076 | 0.008 | |
| 1 | IARM 299A | 1.03 | 0.99 | 0.469 | 0.70 | 0.008 | 0.002 | 0.22 | 0.100 | 0.57 | 0.092 | 0.003 | 0.0054 | 0.0028 | 0.0055 | 0.120 |
| 2 | BS 4150MOD | 1.01 | 0.21 | 0.47 | 0.90 | 0.024 | 0.079 | 0.21 | 0.19 | 0.15 | 0.012 | 0.005 | 0.012 | 0.0087 | 0.013 | 0.008 |
| 1 | 12X 41400A | 1.003 | 0.211 | 0.418 | 0.795 | 0.0138 | 0.0210 | 0.221 | 0.238 | 0.127 | 0.0195 | 0.0088 | | 0.0101 | 0.0181 | |
| 1 | IARM 30i | 0.98 | 0.219 | 0.408 | 0.904 | 0.0206 | 0.0171 | 0.209 | 0.138 | 0.131 | 0.026 | 0.0054 | 0.0093 | 0.0086 | 0.0089 | 0.0051 |

| Number | B | Ca | Nb | O | Pb | Sb | Ta | Ti | W | Zr | Units |
|-----------------|----------|----------|-----------|----------|-----------|---------|---------|----------|-----------|-----------|--|
| BS 48B | (0.0002) | (0.003) | (0.001) | 0.0022 | (0.0002) | (0.001) | | 0.0031 | 0.026 | (0.002) | 38 mm Ø x ~7 or 19+ mm 17025 Fe: 88.7 |
| BS 9905A | (0.0005) | (0.0002) | 0.074 | 0.0024 | (0.0002) | (0.003) | (0.01) | 0.0023 | 0.0024 | (0.002) | 38 mm Ø x ~7 or 19+ mm 17025 Fe: 88.9 |
| BS 9905 | (0.0004) | (0.0001) | 0.076 | 0.0021 | (0.0002) | (0.002) | last | (0.002) | 0.003 | (0.001) | 38 mm Ø x ~7 mm 25(pre-17025) |
| BS H-13 | (0.0002) | (0.0003) | (0.0004) | 0.0018 | (0.0003) | 0.0020 | (0.003) | (0.0019) | 0.0022 | (0.0014) | 38 mm Ø x ~7 or 19+ mm 17025 Fe: [90.4] |
| HRT FE2012-H | | | (0.007) | | | | | | | | 40 mm Ø x 20 mm |
| BS 47B | | | | (0.004) | | | | | | | 38 mm Ø x ~7 or 19+ mm |
| BS 47A | | | 0.002 | (0.003) | | | | 0.003 | | | 38 mm Ø x ~7 or 19+ mm |
| 12X 40CDV12A | | | | | | | | | | | 38 mm Ø x ~15 mm |
| SRM 1772 | | | | | | | | | | | 34 mm Ø x 19 mm |
| SS 407/2 | | | | | | | | | | | 38 mm Ø x 19 mm |
| RM Fe D/7 | | | 0.28 | | (0.0106) | | | 0.10 | 0.07 | 0.14 | 40 mm Ø x 40 mm |
| RM Fe D/5 | | | 0.31 | | | | | 0.18 | 0.082 | 0.071 | 40 mm Ø x 40 mm last |
| IMZ 160 | | | | | | | | | 0.26 | | 40 mm Ø x 40 mm |
| IMZ 159 | | | | | | | | | 0.26 | | 40 mm Ø x 40 mm |
| HRT FE2009-N | | 0.0020 | | | | | | | | Zn: 0.004 | 40 mm Ø x 40 mm |
| IARM 196A | 0.0017 | 0.0002 | 0.087 | 0.0021 | 0.001 | 0.006 | | 0.014 | 0.189 | 0.006 | 31 mm Ø x 2 or 18 mm |
| SRM 1270 | | | | | | | | | | | 32 mm Ø x 19 mm |
| BS 46B | (0.0006) | 0.0009 | (0.003) | 0.0026 | (0.001) | (0.002) | | (0.001) | 0.0008 | (0.002) | 38 mm Ø x ~7 or 19+ mm 17025 Fe: 95.7 |
| IMZ 169 | | | (0.0045) | | (0.001) | | | 0.001 | | | 40 mm Ø x 40 mm |
| ECRM 190-1D | | | | | | | | | | | 35 mm x 35 mm x 30 mm |
| SRM 1139a | | | | | | | | | | | 32 mm Ø x 13 mm |
| BS 1982 | | | (<0.003) | 0.0017 | (0.0003) | 0.002 | | (0.001) | | | 39 mm Ø x ~7 or 19+ mm 25(pre-17025) |
| BS PP20 | 0.00011 | 0.0003 | 0.0048 | (0.0010) | | 0.0013 | | 0.0007 | 0.0058 | | 38 mm Ø x ~7 or 19+ mm 17025 |
| BS 55G * | 0.0002 | 0.0014 | 0.003 | 0.002 | <0.005 | <0.005 | | 0.005 | 0.03 | 0.002 | 38 mm Ø x ~7 or 19+ mm Fe: [95.6] |
| IRSID 1749 | | (0.0002) | (<0.0005) | 0.0002 | (<0.0002) | 0.0018 | | 0.0031 | (<0.0030) | (<0.0003) | 41 mm Ø x 25 mm Mg: 9 ppm |
| ECRM 129-3D | | | | | | 0.00059 | | 0.0030 | | | 39 mm Ø x 25 mm |
| ECRM 195-1D | | | | | | | | | | | 38 mm Ø x 28 to 35 mm |
| SRM 1286 | (0.006) | | (0.012) | | (0.0002) | | | 0.040 | (0.013) | (0.021) | 32 mm Ø x 19 mm |
| BS 68B | | | | | | | | 0.005 | | | 41 mm Ø x 15-19 mm last |
| BS 68E | 0.0002 | (0.0003) | (0 | | | | | | | | |

LEADED STEEL

= Class, where 1 = CRM and 2 = RM

OES regularly requires extension of preburn time

Table with columns: #, Number, Pb, C, Mn, P, S, Si, Cu, Ni, Cr, Al, As, Co, Mo, N, Sn, V. Contains chemical composition data for various steel grades like BS 74C, BS 75G, BS 75F, BS 72B, BS 70B, BS 70C.

Table with columns: Number, B, Ca, Nb, O, Sb, Ti, W, Zn, Grade, Units. Contains detailed composition and units for grades BS 74C, BS 75G, BS 75F, BS 73C, IARM 182B, IARM 183C, BS 72B, BS 73B, BS 70B, BS 70C.

RM LEADED AND BISMUTH STEEL XRF SET

Part Number: BS PB-BI-7

AVAILABLE INDIVIDUALLY

~7 mm discs

17025

Table with columns: Grade, Number, C, Mn, P, S, Si, Cu, Ni, Cr, Mo, Al, Bi, Pb, Sn, V, N. Contains composition data for grades 11L17, 12L14, 41L40, 41L50, 4140 + Bi & S, 4150 + Bi & S, 8620 + Bi & S.

MANGANESE STEEL

14X:~40Øx~15~17mm BS:32Øx~15~17mm CZ:~39Øx25mm DSZU:39Øx20mm ECRM:35Øx25mm IMN:50~56Øx15mm SS 491:50Øx10mm other SS:48x42x12mm VS:~38Øx~18mm

Table with columns: #, Number, Mn, C, P, S, Si, Cu, Ni, Cr, Al, Mo, N, Nb, Sn, V, Other. Contains detailed composition data for various manganese steel grades like DSZU C013, VS LG68, IMZ 199, CZ SP-2B, IRSID 1833, 14X MN1AL, DSZU C012, VS LG67, BS 17, BS 17A, DSZU C011a, DSZU C024, IMZ 198, VS LG66, DSZU C011, 14X MN4AC, SS 495/4, DSZU C023, DSZU C022, DSZU C010, VS LG65, DSZU C021, 14X MN3T, SS 493/3, 14X 15196S, 14X MN2R, BS 19A, DSZU C020, BS 19, 14X MN5T, 14X MN5U, SS 492/3, 14X MN5V, CZ CM-9B.

* Provisional Analysis ** IRSID 1833 also contains As: 0.0034, Co: 0.0089, Pb: 0.00007, and Ti: 0.0011. Sample size 35 mm Ø x 25 mm.

CRM MANGANESE STEEL SET

AVAILABLE IN SET/6 ONLY

30 mm Ø x 24 mm

Table with columns: Number, C, Mn, P, S, Si, Cu, Ni, Cr, B, Co, Mo, N, Ti, V. Contains composition data for grades NCS HS11720-6, NCS HS11720-1, NCS HS11720-2, NCS HS11720-3, NCS HS11720-4, NCS HS11720-5.

CRM Co/Fe/V MAGNETIC ALLOY PERMENDUR 2V

analysis listed in mass % trace: Al As B C Cu Cr Mg Mo Sn Ta Ti W 31 mm Ø x 2 or 18 mm

| Number | Co | Fe | V | Mn | P | S | Si | Ni | N | Nb | O | Zr |
|-----------|------|------|------|-------|--------|--------|-------|-------|--------|-------|--------|-------|
| IARM 326A | 48.4 | 49.6 | 1.94 | 0.003 | 0.0013 | 0.0011 | 0.029 | 0.037 | 0.0004 | 0.038 | 0.0082 | 0.002 |

RESULFURIZED STEEL

= Class, where 1 = CRM and 2 = RM OES regularly requires extension of preburn time to analyze correctly

| # | Number | S | C | Mn | P | Si | Cu | Ni | Cr | Al | Co | Mo | N | Sn | Ti | V |
|---|-----------------|---------|--------|-------|---------|---------|--------|--------|--------|---------|---------|--------|--------|----------|----------|--------|
| 1 | IMZ 123 | 0.38 | 0.25 | 1.57 | 0.030 | 0.23 | 0.093 | 0.057 | 0.16 | 0.032 | . | . | 0.0171 | (0.007) | . | . |
| 1 | ECRM 085-1D | 0.336 | 0.067 | 0.977 | 0.062 | 0.008 | 0.291 | . | . | . | 0.019 | . | . | . | . | 0.0021 |
| 1 | BS 66L | 0.315 | 0.065 | 0.844 | 0.061 | 0.002 | 0.007 | 0.015 | 0.026 | 0.0008 | 0.0035 | 0.0012 | 0.0031 | (0.0010) | (0.0010) | 0.0006 |
| 1 | 14X 12130A | 0.305 | 0.0871 | 1.219 | 0.061 | 0.022 | 0.0201 | 0.0345 | 0.0505 | 0.0024 | . | 0.0102 | 0.0097 | 0.0054 | . | . |
| 1 | IARM 206B | 0.293 | 0.074 | 1.01 | 0.050 | 0.012 | 0.113 | 0.053 | 0.038 | 0.0025 | 0.007 | 0.018 | 0.0075 | 0.0064 | 0.0008 | 0.0016 |
| 1 | IARM 199C * | 0.28 | 0.47 | 1.6 | 0.016 | 0.22 | 0.19 | 0.084 | 0.19 | (0.002) | (0.01) | 0.029 | 0.0070 | 0.009 | 0.002 | 0.004 |
| 1 | IMZ 124 | 0.28 | 0.10 | 0.60 | 0.082 | (0.019) | 0.060 | 0.046 | 0.11 | 0.005 | . | . | 0.0059 | 0.009 | . | . |
| 1 | BS 1144A | 0.271 | 0.468 | 1.43 | 0.0108 | 0.214 | 0.147 | 0.063 | 0.076 | 0.0020 | 0.0064 | 0.0154 | 0.0095 | 0.0079 | (0.0008) | 0.0015 |
| 1 | 14X MSFM 2K | 0.248 | 0.272 | 1.568 | 0.0491 | 0.353 | 0.162 | 0.235 | 0.996 | 0.123 | 0.104 | 0.355 | 0.028 | 0.0218 | . | 0.0324 |
| 1 | BS 1144 | 0.243 | 0.483 | 1.55 | 0.022 | 0.262 | 0.462 | 0.097 | 0.193 | (0.002) | 0.011 | 0.017 | 0.0093 | 0.0113 | 0.002 | 0.0039 |
| 1 | 14X MSFM 4A | 0.224 | 0.226 | 1.141 | 0.0386 | 0.469 | 0.429 | 6.22 | 1.69 | (0.007) | 0.0253 | 0.974 | 0.0220 | 0.0141 | . | 0.0151 |
| 1 | IMZ 122 | 0.21 | 0.27 | 1.33 | 0.073 | 0.43 | 0.25 | 0.25 | 0.19 | (0.027) | . | . | 0.0110 | 0.12 | . | . |
| 1 | 14X 606M36TA | 0.196 | 0.378 | 1.574 | 0.0159 | 0.167 | 0.179 | 0.0931 | 0.163 | 0.0071 | . | 0.272 | 0.0096 | 0.0103 | . | . |
| 1 | 14X 11390A | 0.190 | 0.420 | 1.040 | 0.0342 | 0.198 | 0.0395 | 0.0239 | 0.0609 | 0.0026 | . | 0.0067 | 0.0042 | 0.0022 | . | . |
| 1 | ECRM 058-2D | 0.1712 | 0.424 | 1.186 | 0.0098 | 0.1080 | 0.261 | 0.199 | 0.1211 | . | . | 0.0589 | 0.0107 | . | . | . |
| 1 | 14X 11170A | 0.120 | 0.154 | 1.129 | 0.0133 | 0.151 | 0.1101 | 0.0877 | 0.1126 | 0.0023 | . | 0.0317 | 0.0112 | 0.0110 | . | . |
| 1 | IARM 29E * | 0.12 | 0.193 | 1.19 | 0.016 | 0.239 | 0.253 | 0.082 | 0.105 | (0.003) | 0.008 | 0.027 | 0.0093 | 0.0108 | (0.001) | 0.025 |
| 2 | BS 65C | 0.115 | 0.150 | 1.19 | 0.007 | 0.24 | 0.24 | 0.063 | 0.066 | (0.002) | (0.007) | 0.012 | 0.0084 | . | . | 0.002 |
| 2 | BS 66B | 0.112 | 0.418 | 1.56 | 0.018 | 0.017 | 0.028 | 0.032 | 0.093 | (0.001) | 0.005 | 0.019 | 0.0056 | 0.0016 | (0.001) | 0.0014 |
| 1 | BS 3993 | 0.094 | 0.152 | 1.16 | 0.012 | 0.260 | 0.111 | 0.045 | 0.072 | 0.002 | 0.006 | 0.010 | 0.0071 | 0.006 | (0.0008) | 0.002 |
| 1 | IMZ 121 | 0.097 | 0.39 | 1.18 | 0.057 | (0.056) | 0.032 | 0.029 | 0.036 | 0.016 | . | . | 0.0125 | 0.059 | . | . |
| 2 | BS 52D | 0.088 | 0.436 | 0.97 | 0.068 | 0.18 | 0.060 | 0.18 | 0.16 | 0.028 | 0.012 | 0.09 | 0.0025 | 0.004 | (0.004) | 0.002 |
| 2 | 14X MSFM 3F | 0.087 | 0.55 | 2.10 | 0.060 | 0.52 | . | . | . | . | . | 0.27 | . | . | . | . |
| 2 | BS 4150MOD | 0.079 | 0.47 | 0.90 | 0.024 | 0.21 | 0.19 | 0.15 | 1.01 | 0.012 | 0.012 | 0.21 | 0.0087 | 0.013 | (0.002) | 0.008 |
| 2 | BS 42A | 0.078 | 0.52 | 1.08 | 0.012 | 0.258 | 0.285 | 0.147 | 0.80 | 0.025 | (0.007) | 0.195 | 0.008 | . | . | 0.004 |
| 2 | BS 42 | 0.073 | 0.516 | 1.24 | 0.021 | 0.235 | 0.252 | 0.183 | 0.67 | 0.020 | 0.012 | 0.190 | 0.0080 | 0.012 | (0.003) | 0.003 |
| 1 | 12X 15217Q | 0.073 | 0.176 | 0.652 | 0.058 | 1.390 | 0.231 | 0.864 | 1.24 | (0.021) | 0.248 | 0.358 | 0.078 | 0.0737 | . | 0.662 |
| 1 | 12X 15255Q | 0.070 | 0.351 | 1.191 | 0.104 | 1.02 | 0.279 | 0.296 | 1.509 | 0.073 | 0.0502 | 0.1193 | 0.027 | 0.101 | 0.0377 | 0.475 |
| 1 | KUT B2/2 | 0.064 | 0.065 | 1.22 | 0.087 | (0.38) | 0.32 | 1.49 | . | 0.10 | . | 1.06 | . | . | (0.25) | 0.87 |
| 1 | IMZ 125 | (0.057) | 0.029 | 0.95 | (0.018) | 0.15 | 0.044 | 0.023 | 0.18 | (0.007) | . | . | . | 0.002 | . | . |
| 1 | KUT A14 | 0.052 | 0.12 | 0.75 | 0.041 | 0.73 | 0.20 | 1.32 | 0.59 | (0.01) | 0.070 | 0.25 | . | 0.10 | 0.12 | 0.67 |
| 1 | KUT B16 | 0.051 | 0.16 | 2.05 | 0.068 | 1.95 | 0.09 | 3.74 | 0.26 | (0.037) | . | 0.11 | . | . | 0.075 | 0.53 |
| 1 | KUT B12 | 0.048 | 0.43 | 0.76 | 0.028 | 0.34 | 0.41 | 1.62 | 1.32 | 0.007 | 0.011 | 0.21 | . | 0.032 | 0.011 | 0.026 |
| 1 | KUT B4 | 0.043 | 0.55 | 1.07 | 0.047 | 1.72 | 0.49 | . | . | . | . | . | . | . | . | . |

| Number | As | B | Bi | Ca | Nb | O | Pb | Sb | W | Zn | Zr | Units |
|-----------------|---------|-----------|---------|----------------------|----------|----------|----------|---------|-----------|---------|----------|---|
| IMZ 123 | 0.033 | . | . | . | . | . | 0.030 | 0.030 | . | . | . | 40 mm Ø x 40 mm |
| ECRM 085-1D | . | . | . | . | . | . | 0.0010 | 0.0073 | . | 0.0025 | . | 38 mm Ø x 25 or 30 mm |
| BS 66L | 0.0020 | (<0.0003) | . | (<0.0010) | (0.0012) | . | 0.0007 | 0.0021 | (<0.0010) | . | . | 44 mm Ø x -7 or 19+ mm 17025 |
| 14X 12130A | 0.0016 | . | . | . | . | . | . | . | . | . | . | -40 mm Ø x -15 mm |
| IARM 206B | 0.0045 | 0.0006 | . | . | 0.002 | 0.016 | (0.001) | (0.002) | (0.003) | . | (0.002) | 31 mm Ø x 2 or 18 mm |
| IARM 199C * | 0.006 | 0.001 | * | Provisional Analysis | (0.003) | (0.001) | (0.003) | (0.002) | (0.002) | . | (0.001) | 31 mm Ø x 2 or 18 mm |
| IMZ 124 | 0.004 | . | . | . | . | (0.002) | 0.002 | (0.002) | (0.0009) | . | (0.0006) | 40 mm Ø x 40 mm |
| BS 1144A | 0.0052 | (0.0003) | Fe:97.3 | (0.0005) | (0.002) | 0.0019 | (0.0006) | (0.002) | (0.0009) | . | . | 38 mm Ø x -7 or 19+ mm 17025 |
| 14X MSFM 2K | 0.009 | . | . | . | (0.004) | 0.0016 | (0.001) | . | (0.003) | . | last | -40 mm Ø x -15 mm |
| BS 1144 | 0.009 | . | . | . | (0.004) | 0.0016 | (0.001) | . | (0.003) | . | . | 38 mm Ø x 19 mm 17025 |
| 14X MSFM 4A | 0.007 | . | . | . | . | . | (0.020) | 0.019 | . | . | . | 40 mm Ø x 15 mm |
| IMZ 122 | 0.007 | . | . | . | . | . | (0.020) | 0.019 | . | . | . | 40 mm Ø x 40 mm |
| 14X 606M36TA | 0.0085 | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x -15 mm |
| 14X 11390A | 0.0028 | . | . | . | . | . | . | . | . | . | . | -40 mm Ø x -15 mm |
| ECRM 058-2D | 0.0095 | . | . | . | . | . | . | . | . | . | . | 38 mm Ø x 25 or 30 mm |
| 14X 11170A | 0.0044 | . | . | . | . | . | 0.0011 | . | . | . | . | -40 mm Ø x -15 mm |
| IARM 29E * | 0.008 | 0.0007 | * | Provisional Analysis | (0.005) | (0.001) | (0.002) | (0.004) | (0.004) | (0.001) | . | 31 mm Ø x 2 or 18 mm |
| BS 65C | . | . | . | . | . | . | . | . | . | . | . | 37 mm Ø x -7 or 19+ mm |
| BS 66B | . | 0.0003 | . | . | . | . | . | . | . | . | . | 41 mm Ø x -7 or 19+ mm |
| BS 3993 | 0.004 | . | . | (0.0002) | . | (0.0030) | . | . | . | . | . | 38 mm Ø x -7 or 19+ mm 25(pre-17025) |
| IMZ 121 | 0.002 | . | . | . | . | . | 0.011 | 0.017 | . | . | . | 40 mm Ø x 40 mm |
| BS 52D | . | . | . | . | . | (0.002) | . | . | . | . | . | 35 mm Ø x -7 or 19+ mm |
| 14X MSFM 3F | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| BS 4150MOD | 0.005 | . | 0.070 | 0.0010 | . | (0.003) | 0.0010 | . | . | . | . | 38 mm Ø x -7 or 19+ mm |
| BS 42A | . | . | . | . | . | . | . | . | . | . | . | 37 mm Ø x -7 or 19+ mm |
| BS 42 | (0.004) | . | . | . | (0.002) | . | . | . | (0.002) | . | . | 44 mm Ø x -7 or 19+ mm 17025 |
| 12X 15217Q | . | . | . | . | 0.131 | . | . | . | 0.121 | . | . | 40 mm Ø x 15 mm |
| 12X 15255Q | 0.0193 | . | . | . | 0.152 | . | . | . | 0.150 | . | . | 40 mm Ø x -15 mm |
| KUT B2/2 | . | . | . | . | . | . | . | . | . | . | . | -40 mm Ø x -15 mm |
| IMZ 125 | 0.065 | . | . | . | . | . | . | 0.014 | . | . | . | 30-35 mm Ø x 39 mm |
| . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| KUT A14 | 0.13 | 0.004 | . | . | 0.044 | . | . | 0.047 | . | . | . | 30-35 mm Ø x 39 mm |
| KUT B16 | . | . | . | . | 0.11 | . | . | . | . | . | . | 30-35 mm Ø x 39 mm |
| KUT B12 | 0.011 | 0.0035 | . | . | 0.022 | . | . | . | . | . | (0.002) | 30-35 mm Ø x 39 mm |
| KUT B4 | . | . | . | . | . | . | . | . | . | . | 0.09 | 30-35 mm Ø x 39 mm |

RM RESULFURIZED STEEL XRF SET

Part Number: BS RESUL-4 AVAILABLE INDIVIDUALLY

-7 mm discs

| Grade | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | Co | N | Sn | V | As |
|----------|--------|-------|------|-------|-------|---------|-------|-------|-------|-------|---------|---------|----------|--------|-------|---------|
| 1117 | BS 65C | 0.150 | 1.19 | 0.007 | 0.115 | 0.24 | 0.24 | 0.063 | 0.066 | 0.012 | (0.002) | (0.007) | 0.0084 | 0.02 | 0.002 | (0.008) |
| 1140 + P | BS 52D | 0.436 | 0.97 | 0.068 | 0.088 | 0.18 | 0.060 | 0.18 | 0.16 | 0.09 | 0.028 | 0.012 | 0.0025 | 0.004 | 0.002 | . |
| 1141 | BS 66B | 0.418 | 1.57 | 0.018 | 0.110 | 0.02 | 0.031 | 0.033 | 0.094 | 0.019 | 0.002 | 0.005 | (0.006) | 0.001 | 0.002 | . |
| 1215 | BS 66K | 0.051 | 0.86 | 0.062 | 0.322 | (0.004) | 0.013 | 0.012 | 0.006 | 0.003 | 0.002 | 0.005 | (0.0074) | <0.001 | 0.001 | . |

| SILICON STEEL | | | | | # = Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties | | | | | | | | | | |
|---------------|--------------|--------|--------|--------|--|---------|--------|---------|--------|---------|-------|---------|-----------|---------|----------|
| # | Number | Si | C | Mn | P | S | Cu | Ni | Cr | Al | Als | Mo | N | Sn | Ti |
| 2 | CZ SST-4A | 4.73 | 0.062 | 0.376 | 0.031 | 0.020 | 0.111 | 0.082 | 0.105 | 0.514 | . | 0.019 | 0.0058 | 0.025 | 0.035 |
| 3 | CZ SP-6A | 4.65 | 0.10 | 0.38 | 0.017 | 0.009 | 0.12 | 0.04 | 0.11 | 0.32 | . | 0.01 | . | 0.01 | 0.008 |
| 1 | DSZU C047 | 3.95 | 0.975 | 0.402 | 0.023 | 0.0052 | 0.117 | 0.78 | 4.44 | 0.051 | . | 0.96 | 0.0164 | 0.0090 | 0.059 |
| 2 | CZ SST-3A | 3.27 | 0.035 | 0.221 | 0.007 | 0.0093 | 0.096 | 0.061 | 0.043 | 0.009 | . | 0.036 | 0.0088 | 0.015 | 0.009 |
| 1 | SRM 1218 | (3.2) | 0.0029 | 0.014 | (0.002) | 0.0011 | 0.003 | (0.002) | 0.006 | 0.005 | . | (0.003) | . | . | (0.004) |
| 3 | CZ CM-12A | 3.21 | 0.031 | 0.172 | 0.0130 | 0.0106 | 0.173 | 0.030 | 0.067 | 0.098 | . | 0.008 | 0.0070 | <0.01 | 0.005 |
| 1 | SRM 1135 | 3.19 | 0.027 | 0.094 | 0.006 | 0.026 | 0.056 | 0.050 | 0.022 | 0.0028 | . | 0.014 | . | 0.004 | . |
| 2 | BS 178 | 3.08 | 0.436 | 0.43 | 0.016 | 0.001 | 0.12 | 0.21 | 8.17 | (0.007) | . | 0.044 | 0.014 | (0.007) | 0.014 |
| 3 | CZ SP-5B | 3.07 | 0.20 | 1.86 | 0.108 | 0.023 | 0.15 | 3.00 | 0.38 | 0.18 | . | 0.13 | . | 0.08 | 0.35 |
| 2 | CZ SST-2A | 3.07 | 0.083 | 0.160 | 0.026 | 0.0089 | 0.205 | 0.066 | 0.138 | 0.010 | . | 0.054 | 0.0078 | 0.055 | 0.016 |
| 1 | SRM 1134 | 2.889 | 0.0261 | 0.2751 | 0.0276 | 0.0095 | 0.0707 | 0.0375 | 0.0198 | (0.329) | . | 0.0087 | . | 0.0034 | . |
| 2 | CZ SST-1A | 2.57 | 0.072 | 0.062 | 0.041 | 0.0043 | 0.054 | 0.155 | 0.209 | 0.061 | . | (0.002) | 0.0059 | 0.110 | 0.004 |
| 1 | 12X 15251T | 2.27 | 1.17 | 1.003 | 0.0284 | 0.0258 | 0.110 | 1.035 | 0.792 | 0.050 | . | 0.205 | 0.0232 | 0.0047 | . |
| 1 | VS UG4/9 | 2.23 | 0.53 | 1.28 | 0.017 | 0.016 | 0.099 | 0.71 | 0.139 | 0.023 | . | 0.117 | (0.004) | 0.081 | 0.126 |
| 1 | VS UG91 | 2.23 | 0.49 | . | 0.0038 | 0.0021 | 0.057 | 0.039 | 0.064 | 0.048 | 0.048 | 0.058 | 0.010 | . | 0.038 |
| 1 | 12X 15251U * | 2.1 | 1.0 | 0.9 | 0.03 | 0.02 | 0.12 | 0.89 | 0.6 | 0.1 | . | 0.20 | 0.003 | 0.01 | . |
| 1 | VS UG92 | 1.98 | 0.69 | 0.79 | 0.05 | 0.0029 | 0.111 | 0.155 | 0.200 | 0.091 | 0.08 | 0.119 | 0.016 | . | 0.022 |
| 1 | KUT T4/1 | 1.97 | 0.17 | 0.23 | 0.012 | 0.041 | 0.16 | 0.077 | 0.24 | . | . | . | . | . | <(0.005) |
| 1 | NCS HS11751 | 1.82 | 0.661 | 0.805 | 0.027 | 0.017 | 0.136 | 0.020 | 0.021 | . | . | . | . | . | . |
| 1 | 12X 15259Q | 1.81 | 0.603 | 0.401 | 0.0401 | 0.0704 | 0.200 | 4.02 | 0.512 | 0.1488 | . | 0.407 | 0.0151 | 0.053 | . |
| 1 | ECRM 196-2D | 1.808 | 0.0060 | 0.364 | 0.00369 | 0.00065 | 0.0057 | 0.0401 | 0.0282 | 0.2167 | . | 0.0142 | 0.00178 | 0.00047 | 0.00253 |
| 1 | VS UG4/5 | 1.80 | 0.56 | 1.26 | (0.008) | (0.006) | 0.098 | 0.68 | 0.17 | 0.010 | . | 0.087 | . | . | 0.17 |
| 1 | ECRM 186-1D | 1.72 | 0.610 | 0.870 | 0.022 | 0.035 | 0.281 | 0.190 | 0.218 | 0.014 | . | 0.048 | . | . | . |
| 1 | BS 300 | 1.68 | 0.410 | 0.721 | 0.0046 | 0.0006 | 0.118 | 1.867 | 0.803 | 0.099 | . | 0.370 | 0.0023 | 0.0053 | 0.0096 |
| 1 | 12X 44220A | 1.662 | 0.417 | 0.874 | 0.0050 | 0.0009 | 0.031 | 1.89 | 0.846 | 0.029 | . | 0.401 | 0.0030 | 0.0019 | . |
| 3 | CZ CM-2A | 1.66 | 0.20 | 0.97 | 0.10 | 0.012 | 1.01 | 1.20 | 1.50 | 0.03 | . | 0.33 | . | 0.08 | 0.34 |
| 1 | VS UG111 | 1.64 | 0.52 | 0.625 | 0.0028 | 0.0035 | 0.065 | 0.036 | 0.058 | 0.049 | . | 0.039 | . | . | 0.025 |
| 1 | VS UG1/9 | 1.63 | 0.63 | 0.84 | 0.030 | 0.017 | 0.020 | 0.105 | 0.046 | 0.027 | . | 0.135 | (0.002) | (0.002) | 0.069 |
| 1 | IARM 340A | 1.63 | 0.414 | 0.755 | 0.011 | 0.001 | 0.103 | 1.80 | 0.84 | 0.062 | . | 0.39 | 0.0020 | 0.005 | 0.0098 |
| 1 | IARM 342A | 1.63 | 0.257 | 1.37 | 0.006 | 0.0051 | 0.110 | 1.76 | 0.38 | 0.019 | . | 0.42 | 0.0102 | 0.021 | 0.0028 |
| 1 | VS UG4/10 | 1.61 | 0.695 | 0.834 | 0.031 | 0.0060 | 0.050 | 0.156 | 0.130 | 0.064 | . | 0.089 | 0.0192 | . | 0.0044 |
| 1 | KUT B1/1 | 1.58 | 0.97 | 0.205 | 0.017 | 0.032 | 0.14 | 3.96 | 1.66 | . | . | . | . | . | . |
| 1 | 12X 15261X | 1.513 | 0.546 | 0.483 | 0.090 | 0.0518 | 0.308 | 0.0985 | 0.496 | 1.648 | . | 1.594 | . | 0.0172 | 0.385 |
| 1 | VS UG1/10 | 1.51 | 0.51 | 0.659 | 0.0053 | 0.0042 | 0.096 | 0.190 | 0.067 | 0.015 | . | 0.051 | 0.0164 | 0.0030 | 0.016 |
| 2 | CZ LA-2D | 1.48 | 0.065 | 0.26 | 0.011 | 0.052 | 0.53 | 2.00 | 0.135 | 0.18 | . | 0.57 | 0.008 | 0.085 | 0.30 |
| 1 | KUT A11/1 | (1.46) | 0.043 | 0.21 | 0.011 | 0.0137 | 0.047 | 0.04 | 0.02 | 0.02 | . | 1.20 | . | 0.002 | 0.17 |
| 1 | VS UG4/6 | 1.25 | 0.59 | 1.23 | (0.003) | 0.0008 | 0.169 | 0.47 | 0.400 | 0.032 | . | 0.083 | <(0.0005) | 0.017 | 0.131 |
| 1 | VS UG87 | 1.25 | 0.59 | 1.18 | 0.026 | 0.022 | 0.030 | 0.50 | 0.260 | 0.024 | 0.02 | 0.044 | 0.010 | . | 0.103 |
| 1 | VS UG1/5 | 1.23 | 0.62 | 0.79 | (0.02) | (0.03) | (0.01) | 0.048 | 0.069 | 0.022 | . | 0.061 | . | . | 0.045 |
| 1 | VS UG88 | 1.22 | 0.62 | 1.26 | 0.0026 | 0.0043 | 0.171 | 0.52 | 0.474 | 0.01 | 0.009 | 0.104 | 0.020 | . | 0.107 |
| 2 | DSZU C046 | 1.21 | 0.785 | 0.257 | 0.025 | 0.0153 | 0.211 | 1.47 | 2.67 | 0.47 | . | 0.69 | 0.0099 | 0.0033 | 0.115 |
| 2 | CZ LA-3E | 1.19 | 0.60 | 0.70 | 0.044 | 0.026 | 0.22 | 1.01 | 0.94 | 0.061 | . | 0.32 | 0.010 | 0.026 | 0.135 |
| 1 | KUT A12 | 1.19 | 0.031 | 0.31 | 0.014 | 0.082 | 0.18 | 2.43 | 1.25 | 0.18 | . | 0.47 | . | . | 0.05 |
| 2 | CZ CM-14B | 1.18 | 0.55 | 1.63 | 0.017 | 0.023 | 0.36 | 1.10 | 1.38 | 0.26 | . | 0.400 | 0.0072 | 0.040 | 0.36 |
| 2 | CZ CM-14A | 1.15 | 0.523 | 1.58 | 0.051 | 0.028 | 0.30 | 1.14 | 1.13 | 0.063 | . | 0.395 | 0.0095 | 0.027 | 0.40 |
| 1 | 12X 15258N | 1.020 | 0.548 | 1.434 | 0.0439 | 0.070 | 0.0934 | 0.327 | 0.465 | 0.032 | . | 0.215 | . | 0.0453 | 0.120 |
| 1 | SS 603/2 | 0.97 | 0.79 | 0.236 | 0.020 | 0.056 | (0.05) | (0.03) | (0.04) | 0.076 | . | (0.004) | . | . | . |
| 1 | SS 405/2 | 0.947 | 0.044 | 0.903 | 0.0095 | 0.058 | 0.022 | 0.102 | 0.206 | 0.330 | . | 0.025 | (0.011) | . | . |
| 1 | SS 113 | 0.931 | 0.837 | 1.207 | 0.0595 | 0.0294 | 0.179 | 0.0784 | 1.248 | 0.0151 | . | 0.056 | 0.0109 | 0.0067 | 0.0390 |
| 1 | NCS HS11744 | 0.825 | 0.092 | 1.04 | 0.014 | 0.066 | 0.572 | 1.94 | 0.166 | 0.044 | . | 0.912 | . | 0.0041 | 0.049 |
| 1 | CKD 188A | 0.775 | 0.332 | 0.169 | 0.006 | 0.033 | 0.057 | 0.445 | 5.11 | 0.093 | 0.083 | 1.28 | 0.0076 | 0.005 | 0.034 |
| 1 | SS 604/2 | 0.75 | 0.199 | 1.91 | 0.016 | 0.072 | (0.07) | (0.09) | (0.06) | 0.008 | . | (0.02) | . | . | . |

| # | Number | Si | C | Mn | P | S | Cu | Ni | Cr | Al | Als | Mo | N | Sn | Ti | | |
|--------------|------------------------|----------|---------|---------|------------|----------|----------|---------|-------|----------|-------|------------|-------|----|---------|--------------|----|
| Number | As | B | Ca | Co | Nb | O | Pb | Sb | Ta | V | W | Zr | Units | | | | |
| CZ SST-4A | 0.004 | 0.0006 | . | 0.012 | . | . | 0.008 | (0.003) | . | 0.031 | 0.026 | (0.003) | ~37 | mm | Ø x 25 | mm | |
| CZ SP-6A | 0.003 | . | . | 0.003 | . | . | . | . | . | 0.016 | 0.02 | . | ~39 | mm | Ø x 25 | mm | |
| DSZU C047 | 0.0077 | 0.0006 | 0.0013 | 0.066 | 0.021 | . | . | . | . | 1.84 | 1.88 | . | 40 | mm | Ø x 25 | mm | |
| CZ SST-3A | (0.003) | 0.0019 | . | 0.038 | . | . | Zn:0.011 | 0.013 | . | 0.041 | 0.016 | . | ~37 | mm | Ø x 25 | mm | |
| SRM 1218 | . | . | . | (0.002) | . | . | . | . | . | <(0.001) | . | . | 32 | mm | Ø x 19 | mm | |
| CZ CM-12A | 0.003 | . | . | 0.003 | . | . | . | . | . | <0.01 | . | . | ~39 | mm | Ø x 25 | mm | |
| SRM 1135 | . | . | . | . | . | . | . | . | . | <0.01 | . | . | 31 | mm | Ø x 19 | mm | |
| BS 178 | . | (0.0002) | . | 0.018 | (0.002) | (0.0020) | . | . | . | 0.041 | 0.017 | . | last | 31 | mm | Ø x ~7 or 19 | mm |
| CZ SP-5B | 0.19 | 0.14 | . | 0.135 | 0.09 | . | 0.09 | 0.07 | . | 0.71 | 0.62 | . | ~39 | mm | Ø x 25 | mm | |
| CZ SST-2A | . | 0.0089 | . | 0.022 | . | . | Zn:0.011 | 0.015 | 0.008 | 0.024 | 0.019 | 0.017 | ~37 | mm | Ø x 25 | mm | |
| SRM 1134 | . | . | . | . | . | . | . | . | . | . | . | . | 31 | mm | Ø x 19 | mm | |
| CZ SST-1A | (0.002) | 0.0003 | . | 0.005 | . | . | (0.002) | (0.002) | . | 0.006 | . | . | ~37 | mm | Ø x 25 | mm | |
| 12X 15251T | (0.001) | (0.0003) | . | 0.259 | 0.29 | . | . | . | . | 0.405 | 0.053 | . | 42 | mm | Ø x 15 | mm | |
| VS UG4/9 | (0.001) | (0.0003) | . | (0.001) | 0.008 | . | 0.008 | . | . | 0.054 | 0.061 | . | ~45 | mm | Ø x ~28 | mm | |
| VS UG91 | 0.0004 | . | . | 0.097 | 0.00006 | 0.00009 | . | . | . | 0.049 | . | . | ~47 | mm | Ø x ~30 | mm | |
| 12X 15251U * | * Provisional Analysis | | | | 0.23 | 0.27 | . | . | . | 0.39 | 0.04 | . | ~40 | mm | Ø x ~15 | mm | |
| VS UG92 | 0.0027 | . | . | 0.034 | . | . | 0.00017 | 0.0005 | . | 0.024 | . | . | ~47 | mm | Ø x ~30 | mm | |
| KUT T4/1 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 | mm | Ø x 39 | mm | |
| NCS HS11751 | 0.016 | . | . | 0.011 | . | . | . | . | . | . | . | . | 37 | mm | Ø x 45 | mm | |
| 12X 15259Q | . | . | . | 0.141 | 0.249 | . | . | . | . | 0.139 | 0.49 | . | ~40 | mm | Ø x ~15 | mm | |
| ECRM 196-2D | 0.00033 | 0.00014 | 0.00071 | 0.0138 | Mg:0.00075 | . | . | . | . | 0.00368 | . | Zn:0.00019 | 38 | mm | Ø x 25 | mm | |
| VS UG4/5 | . | . | . | 0.053 | . | . | . | . | . | 0.054 | 0.14 | . | ~45 | mm | Ø x ~28 | mm | |
| ECRM | | | | | | | | | | | | | | | | | |

LOW ALLOY STEEL WITH C > 0.3%

CONTINUED ON THE NEXT PAGE

= Class, where 1=CRM, 2=RM, 3=RM no uncertainties

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Als | Co | Mo | N | Nb | Ti |
|---|---------------|--------|--------|---------|----------|--------|--------|--------|--------|---------|---------|---------|--------|----------|-----------|----------|
| 1 | VS UG0/6 | 1.40 | 0.329 | (0.006) | (0.003) | 0.221 | 0.286 | 0.55 | 0.73 | 0.129 | (0.002) | (0.01) | 0.079 | | | 0.0052 |
| 1 | CKD 182B | 1.39 | 0.370 | 0.008 | 0.006 | 0.126 | 0.293 | 2.82 | 0.122 | 0.023 | 0.017 | 0.171 | 0.011 | 0.0049 | 0.001 | 0.004 |
| 1 | CKD 182C | 1.36 | 0.363 | 0.009 | 0.008 | 0.111 | 0.294 | 2.80 | 0.123 | 0.028 | | 0.171 | 0.012 | 0.0049 | (0.001) | (0.002) |
| 1 | VS UG0/9 | 1.33 | 0.273 | 0.040 | 0.0045 | 0.270 | 0.307 | 0.63 | 0.129 | 0.028 | (0.001) | | 0.024 | 0.0022 | 0.041 | 0.019 |
| 1 | VS UG0/10 | 1.321 | 0.268 | 0.0090 | 0.0044 | 0.244 | 0.265 | 0.353 | 0.596 | 0.101 | | | 0.052 | 0.0120 | 0.0033 | 0.017 |
| 1 | VS UG0/5 | 1.32 | (0.2) | (0.01) | (0.007) | (0.2) | 0.265 | 0.351 | 0.60 | 0.108 | | | (0.05) | | (0.01) | (0.01) |
| 1 | SS 402/2 | 1.311 | 0.288 | 0.0161 | 0.0138 | 0.111 | 0.302 | 0.808 | 0.652 | 0.161 | | | 0.140 | 0.0069 | | |
| 1 | ECRM 035-2D | 1.277 | 0.305 | 0.0038 | 0.011 | 0.216 | 0.0085 | 0.0190 | 0.0104 | 0.0193 | | | 0.0056 | 0.0230 | | 0.0030 |
| 1 | IMZ 65/2 | 1.19 | 0.27 | 0.013 | 0.007 | 0.13 | 0.059 | 0.067 | 0.079 | 0.030 | | | | | | |
| 1 | KUT A18 | 1.16 | (1.99) | 0.014 | 0.007 | 0.15 | 0.066 | 0.125 | 0.90 | (0.2) | | | | | 0.035 | 0.011 |
| 1 | VS UG9/5 | 1.10 | 0.25 | (0.01) | (0.007) | 0.31 | 0.125 | 0.183 | 0.36 | 0.017 | | | 0.29 | | (0.002) | 0.109 |
| 3 | CZ CM-5B | 1.09 | 1.28 | 0.021 | 0.012 | 0.39 | 0.13 | 0.23 | 2.07 | 0.083 | | 0.022 | 0.10 | 0.0135 | 0.06 | 0.05 |
| 1 | 14X 72305A | 1.085 | 0.349 | 0.0128 | 0.0028 | 0.206 | 0.149 | 0.089 | 0.425 | 0.0049 | | | 0.0231 | | 0.0068 | |
| 1 | SRM 1761a | (1.05) | 0.679 | 0.042 | 0.037 | 0.182 | 0.298 | 1.981 | 0.222 | 0.055 | | (0.027) | 0.103 | (0.0042) | 0.021 | 0.173 |
| 2 | CZ CM-5C | 1.04 | 1.17 | 0.029 | 0.021 | 0.54 | 0.151 | 0.42 | 2.45 | 0.063 | | 0.022 | 0.132 | 0.014 | 0.014 | 0.031 |
| 1 | VS UG9/9 | 1.04 | 0.310 | 0.0053 | 0.021 | 0.319 | 0.163 | 0.242 | 0.310 | 0.073 | (0.003) | | 0.308 | 0.0027 | 0.0046 | 0.130 |
| 1 | IMZ 172 | 1.03 | 0.71 | 0.018 | 0.047 | 0.21 | 0.128 | 0.12 | 4.47 | 0.062 | | 0.012 | 0.96 | 0.0192 | | (0.002) |
| 1 | NM PC-5 | 1.03 | 0.52 | 0.073 | 0.022 | 0.22 | 0.22 | 0.19 | 1.19 | 0.19 | | | | | | |
| 1 | BS 2952 | 1.03 | 0.33 | 0.013 | 0.014 | 0.32 | 0.106 | 0.135 | 1.36 | 0.024 | | 0.007 | 0.044 | (0.0084) | | 0.003 |
| 1 | 12X 52986A | 1.023 | 0.372 | 0.0049 | 0.0011 | 0.246 | 0.077 | 0.0411 | 1.418 | 0.0258 | (0.002) | | 0.0169 | (0.002) | | |
| 2 | BS 53G | 1.02 | 0.35 | 0.014 | 0.015 | 0.23 | 0.160 | 0.090 | 1.53 | 0.019 | | 0.008 | 0.034 | 0.0084 | | (0.002) |
| 1 | CKD 184A | 1.013 | 2.23 | 0.028 | (0.01) | 0.348 | 0.089 | 0.250 | 2.33 | 0.022 | 0.016 | 0.007 | 0.016 | 0.0104 | 0.013 | 0.010 |
| 1 | NILAB 100LA D | 1.002 | 0.333 | 0.012 | 0.018 | | 0.019 | 0.027 | 1.517 | 0.005 | | 0.007 | 0.012 | 0.0046 | | 0.0007 |
| 1 | IRSID 1747 | 0.990 | 0.333 | 0.0078 | 0.0068 | 0.222 | 0.1243 | 0.0850 | 1.501 | | 0.0392 | 0.0110 | 0.0141 | 0.0084 | (0.00025) | 0.0041 |
| 1 | IARM 324A | 0.99 | 1.01 | 0.009 | 0.028 | 0.163 | 0.22 | 0.081 | 0.42 | 0.002 | | 0.007 | 0.022 | 0.0082 | 0.014 | 0.0016 |
| 1 | IARM 49D | 0.99 | 0.39 | 0.0173 | 0.0059 | 0.24 | 0.120 | 0.061 | 1.53 | 0.018 | | (0.006) | 0.016 | 0.0102 | 0.0009 | 0.0020 |
| 2 | BS A485-1 | 0.98 | 1.10 | 0.019 | 0.004 | 0.62 | 0.16 | 0.13 | 1.07 | 0.017 | | 0.010 | 0.029 | 0.0060 | | 0.003 |
| 1 | KUT B15 | 0.98 | 0.69 | 0.030 | 0.031 | 0.80 | 0.14 | 0.15 | 3.70 | 0.13 | | 0.21 | 1.20 | | | (0.32) |
| 1 | VS UG75 | 0.98 | 0.286 | 0.0127 | 0.0089 | 0.248 | 0.111 | 0.201 | 1.43 | (0.03) | | | (0.01) | | (0.01) | (0.001) |
| 2 | CZ LA-4C | 0.95 | 1.63 | 0.021 | 0.012 | 0.07 | 0.056 | 0.045 | 1.78 | 0.048 | | (0.006) | 0.008 | 0.012 | 0.053 | (0.002) |
| 1 | 12X 19965A | 0.936 | 0.600 | 0.0196 | 0.0081 | 0.247 | 0.148 | 0.141 | 1.713 | 0.0256 | | | 0.210 | 0.0087 | | |
| 1 | SS 401/2 | 0.935 | 1.197 | 0.0265 | 0.0078 | 0.62 | 0.101 | 0.019 | 0.138 | 0.074 | | 0.042 | 0.495 | (0.015) | | |
| 1 | IMZ 119 | 0.93 | 1.15 | 0.018 | 0.006 | 0.16 | 0.042 | 0.049 | 0.062 | 0.010 | 0.007 | | | 0.0086 | | (0.0007) |
| 1 | VS UG3/5 | 0.93 | 0.98 | (0.03) | (0.005) | 0.79 | 0.10 | 0.97 | 0.77 | 0.10 | | | 0.048 | | 0.21 | 0.29 |
| 1 | VS UG89 | 0.92 | 0.76 | 0.0085 | 0.01 | 0.385 | 0.373 | 0.51 | 0.420 | 0.01 | 0.007 | | 0.044 | 0.017 | 0.0043 | 0.012 |
| 1 | VS UG110 | 0.91 | 0.86 | 0.0063 | 0.0050 | 0.342 | 0.377 | 0.491 | 0.47 | 0.006 | | | 0.0052 | | | 0.0015 |
| 1 | VS UG21/6 | 0.83 | 0.74 | (0.02) | (0.02) | 0.312 | 0.346 | 0.47 | 0.50 | | | | | | | |
| 1 | 12X LA45C | 0.783 | 0.726 | 0.0577 | 0.0261 | 0.493 | 0.158 | 0.484 | 0.678 | 0.10 | | 0.166 | 0.305 | | | |
| 2 | IARM 172A | 0.78 | 0.010 | 0.007 | 0.004 | 1.29 | 0.40 | 0.025 | 3.52 | 0.39 | | 0.006 | 0.014 | | 0.004 | 0.003 |
| 1 | SS 403/2 | 0.750 | 1.677 | 0.055 | 0.0381 | 0.209 | 0.221 | 0.223 | 0.463 | 0.0485 | | | 0.088 | (0.010) | | |
| 1 | IMZ 64/2 | 0.75 | 0.47 | 0.012 | (0.005) | 0.22 | 0.12 | 0.081 | 0.090 | 0.020 | | | | | | |
| 1 | ECRM 059-2D | 0.721 | 0.495 | 0.0046 | 0.0084 | 0.188 | 0.0074 | 0.0198 | 0.0090 | 0.00045 | 0.00020 | | | 0.0018 | 0.0051 | |
| 2 | CZ CM-1C | 0.72 | 1.73 | 0.023 | 0.025 | 0.31 | 0.18 | 0.52 | 0.47 | 0.034 | | 0.026 | 0.084 | 0.009 | 0.054 | 0.066 |
| 2 | CZ CM-4B | 0.72 | 0.50 | 0.023 | 0.012 | 0.80 | 0.40 | 1.40 | 2.23 | 0.025 | | 0.115 | 0.33 | 0.013 | 0.071 | 0.12 |
| 1 | SS 404/2 | 0.696 | 0.532 | 0.0479 | 0.0228 | 1.121 | 0.427 | 0.393 | 0.774 | 0.017 | | | 0.307 | 0.0089 | | |
| 1 | IMZ 118 | 0.69 | 1.72 | 0.026 | (0.049) | 0.30 | 0.18 | 0.19 | 0.14 | (0.014) | (0.004) | | 0.058 | 0.0120 | | |
| 1 | IMZ 116 | 0.64 | 0.94 | 0.025 | 0.035 | 0.25 | 0.33 | 0.022 | 0.72 | 0.025 | 0.012 | | 0.074 | 0.0130 | | (0.0008) |
| 1 | VS UG96 | 0.60 | 0.52 | 0.0046 | 0.0029 | 0.290 | 0.256 | 0.396 | 0.399 | 0.031 | | | 0.0042 | | | 0.0025 |
| 1 | SRM 1764A | 0.592 | 1.193 | 0.0210 | 0.0118 | 0.0595 | 0.5178 | 0.2006 | 1.468 | 0.0098 | | (0.012) | 0.2007 | (0.0023) | 0.0416 | 0.0286 |
| 1 | DSZU C07 | 0.589 | 0.903 | 0.033 | 0.037 | 1.00 | 0.130 | 0.263 | 0.201 | 0.039 | | 0.165 | 0.377 | | 0.091 | 0.059 |
| 1 | VS UG119 | 0.55 | 0.70 | 0.012 | (0.02) | 1.63 | 0.207 | 0.142 | 0.195 | 0.039 | | | 0.0113 | 0.0047 | | 0.0030 |
| 1 | 12X 10550 | 0.549 | 0.685 | 0.0184 | 0.0055 | 0.281 | 0.0290 | 0.0247 | 0.338 | 0.0325 | | | 0.0086 | 0.0051 | | |
| 1 | 12X LA48 | 0.537 | 0.303 | 0.0363 | 0.039 | 0.335 | 0.334 | 0.521 | 0.493 | 0.057 | | 0.105 | 0.489 | 0.0222 | | |
| 1 | 12X 61500A | 0.530 | 0.912 | 0.0104 | 0.0102 | 2.40 | 0.157 | 0.056 | 1.023 | 0.007 | 0.0067 | | 0.0195 | | | |
| 2 | CZ CM-6A | 0.52 | 0.37 | 0.016 | 0.058 | 0.27 | 0.05 | 0.19 | 0.37 | 0.02 | | 0.03 | 0.04 | 0.009 | 0.028 | 0.03 |
| 2 | CZ BO-2B | 0.515 | 0.745 | 0.0093 | 0.0016 | 0.309 | 0.100 | 0.057 | 0.212 | 0.0196 | | 0.0055 | 0.006 | 0.004 | | 0.0017 |
| 1 | 12X LA3C * | 0.50 | 1.68 | 0.028 | 0.04 | 0.17 | 0.21 | 0.29 | 0.37 | 0.04 | | 0.048 | 0.31 | 0.003 | | |
| 1 | IARM 34C | 0.50 | 0.739 | 0.0090 | 0.0011 | 0.30 | 0.078 | 0.085 | 0.914 | 0.068 | | 0.005 | 0.022 | 0.0030 | 0.004 | 0.0045 |
| 2 | BS 43A | 0.491 | 0.811 | 0.008 | 0.026 | 0.252 | 0.184 | 0.242 | 0.93 | 0.003 | | 0.008 | 0.059 | 0.0074 | | 0.002 |
| 2 | BS 4941 | 0.490 | 0.79 | 0.012 | 0.017 | 0.27 | 0.106 | 0.074 | 0.96 | 0.024 | | 0.008 | 0.039 | 0.0076 | | |
| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Als | Co | Mo | N | Nb | Ti |
| 1 | IMZ 103A | 0.49 | 0.78 | 0.066 | 0.051 | 0.42 | 0.27 | 0.57 | 0.58 | 0.026 | | 0.002 | 0.18 | | 0.040 | 0.17 |
| 1 | IMZ 117 | 0.49 | 0.77 | 0.038 | 0.015 | 0.34 | 0.41 | 0.29 | 0.94 | 0.023 | 0.013 | | 0.024 | 0.0154 | 0.041 | (0.0014) |
| 1 | BS 1144 | 0.483 | 1.55 | 0.022 | 0.243 | 0.262 | 0.462 | 0.097 | 0.193 | (0.002) | | 0.011 | 0.017 | 0.0093 | (0.004) | 0.002 |
| 1 | IPT 503 | 0.456 | 0.682 | 0.027 | 0.027 | 0.218 | 0.129 | 0.063 | 0.160 | 0.018 | | 0.006 | 0.20 | 0.0082 | | 0.0011 |
| 1 | SRM C1173 | 0.453 | 0.174 | 0.031 | 0.092 | 1.38 | 0.204 | 4.04 | 2.63 | | | | 1.46 | | | 0.037 |
| 1 | 12X 41450A | 0.446 | 1.011 | 0.0093 | 0.0031 | 0.261 | 0.1318 | 0.187 | 1.194 | 0.0220 | | | 0.340 | 0.0080 | | |
| 2 | BS XCCV | 0.44 | 1.75 | 0.012 | 0.024 | 0.28 | 0.015 | 0.019 | 0.041 | 0.033 | | 0.006 | 0.007 | 0.0056 | (0.002) | (0.002) |
| 1 | 12X LA3B | 0.439 | 1.176 | 0.0215 | 0.0379 | 0.16 | 0.173 | 0.300 | 0.357 | 0.0300 | | 0.0300 | 0.302 | 0.0080 | | |
| 1 | NM PC-4 | 0.43 | 0.80 | 0.043 | 0.045 | 0.34 | | | 0.26 | | | | | | | |
| 1 | BS 4340A | 0.423 | 0.766 | 0.0062 | (0.0008) | 0.253 | 0.128 | 1.80 | 0.879 | 0.031 | | 0.0111 | 0.259 | 0.0102 | (0.002) | (0.0011) |
| 1 | SRM 1173 | 0.423 | 0.19 | 0.033 | 0.092 | 1.28 | 0.204 | 4.06 | 2.70 | | | | 1.50 | | | |
| 2 | HRT FE2015-N | 0.42 | 0.83 | 0.007 | 0.028 | 0.24 | 0.15 | 0.32 | 1.03 | 0.023 | | | 0.21 | 0.0057 | | |
| 1 | BS 4340 | 0.418 | 0.695 | 0.0119 | 0.0187 | 0.279 | 0.149 | 1.79 | 0.807 | 0.028 | | 0.0068 | 0.231 | 0.0080 | (0.001) | 0.0014 |
| 1 | IARM 252C | 0.416 | 0.92 | 0.025 | 0.008 | 0.488 | 0.109 | 1.505 | 0.501 | 0.017 | | 0.008 | 0.205 | 0.0083 | 0.002 | 0.001 |
| 1 | BS 4942 | 0.414 | 0.56 | 0.015 | 0.021 | 0.22 | 0.165 | 0.16 | 0.97 | (0.004) | | 0.010 | 0.54 | 0.0080 | | |
| 2 | BS 1962 | 0.41 | 0.94 | 0.007 | 0.011 | 0.242 | 0.224 | 0.16 | 1.05 | 0.018 | | 0.008 | 0.229 | 0.0095 | | 0.004 |
| 1 | VS UG116 | 0.41 | 0.59 | 0.012 | 0.027 | 0.246 | 0.221 | 1.13 | 0.89 | 0.026 | | | | | | |

LOW ALLOY STEEL WITH C > 0.3%

CONTINUED FROM THE PREVIOUS PAGE

| Number | As | B | Ca | Fe | Mg | O | Pb | Sb | Sn | Ta | V | W | Zr | Units |
|---------------|----------|------------------------|---------------|--------|-----------|----------|-----------|-----------|-----------|---------|---------|----------|-------------|-------------------------------------|
| VS UG0/6 | | | | | | | (<0.0005) | (<0.0005) | 0.0032 | | 0.0046 | | | ~45 mm Ø x ~28 mm last |
| CKD 182B | 0.005 | 0.0003 | | | | | (0.000) | 0.001 | 0.004 | 0.000 | 0.027 | 0.016 | 0.001 | 44 mm Ø x 13 or 25 mm |
| CKD 182C | (0.005) | 0.0003 | | | | | (0.001) | (0.001) | (0.004) | (0.001) | 0.028 | 0.018 | (0.001) | 44 mm Ø x 13 or 25 mm |
| VS UG0/9 | | (0.0002) | | | | | (0.002) | | (0.008) | | 0.087 | 0.074 | | ~45 mm Ø x ~28 mm |
| VS UG0/10 | | | | | | | | | 0.0043 | | 0.0037 | (0.006) | | ~45 mm Ø x ~28 mm |
| VS UG0/5 | | | | | | | | | | | (0.01) | (0.01) | | ~45 mm Ø x ~28 mm |
| SS 402/2 | | | | | | | | | | | 0.194 | | | 38 mm Ø x 19 mm |
| ECRM 035-2D | 0.0017 | | | | | | | | | | | | | 40 mm Ø x 20 mm |
| IMZ 65/2 | | | | | | | | | | | | | | 40 mm Ø x 40 mm |
| KUT A18 | 0.003 | (0.011) | | | | | | 0.005 | 0.016 | | 0.10 | | | 30-35mm Ø x 39 mm |
| VS UG9/5 | | | | | | | | | | | 0.19 | 1.63 | | ~45 mm Ø x ~28 mm |
| CZ CM-5B | 0.018 | 0.002 | | | | | 0.01 | 0.006 | 0.012 | | 0.06 | 0.03 | 0.09 | ~37 mm Ø x 25 mm |
| 14X 72305A | | | | | | | | | 0.0101 | | 0.0045 | | | ~40 mm Ø x ~15 mm |
| SRM 1761a | (0.011) | 0.0023 | | (95) | | | | (0.0052) | (0.050) | (0.050) | 0.054 | | | 34 mm Ø x 19 mm |
| CZ CM-5C | 0.020 | 0.0012 | (0.0006) | | | | 0.009 | 0.005 | 0.018 | | 0.106 | 0.034 | (0.07) | ~39 mm Ø x 25 mm |
| VS UG9/9 | | (0.0002) | | | | | (0.002) | | (0.001) | | 0.215 | 1.60 | | ~45 mm Ø x ~28 mm |
| IMZ 172 | | | | | | | | | 0.010 | | 0.20 | 0.011 | | 40 mm Ø x 40 mm |
| NM PC-5 | | | | | | | | | | | | | | 40 mm Ø x 20 mm |
| BS 2952 | 0.004 | | 0.0003 | | | (0.002) | | 0.003 | 0.006 | | 0.005 | | | 44 mm Ø x ~7 or 19+ mm |
| 12X 52986A | | | | | | | | | 0.0063 | | 0.0615 | | | ~38 mm Ø x ~15 mm |
| BS 53G | 0.004 | (0.0001) | (0.0001) | | | 0.001 | | | 0.007 | | 0.006 | (0.13) | | 44 mm Ø x ~7 or 19+ mm |
| CKD 184A | 0.006 | 0.0005 | | | | | (0.000) | 0.002 | 0.008 | 0.000 | 0.017 | (0.001) | (0.002) | 44 mm Ø x 13 or 25 mm |
| NILAB 100LA D | 0.004 | | | | | | | | | | 0.004 | | | 34 mm Ø x 20 mm |
| IRSID 1747 | 0.0170 | (0.00015) | (0.00030) | | (0.00022) | | (0.00025) | (0.0034) | 0.0105 | | 0.0046 | | (0.0001) | 37 mm Ø x 30 mm |
| IARM 324A | 0.006 | 0.0004 | 0.0009 | | | 0.003 | | (0.002) | 0.011 | | 0.0017 | (0.003) | (0.001) | 31 mm Ø x 2 or 18 mm |
| IARM 49D | 0.004 | (0.0004) | | | | 0.0008 | (0.0004) | 0.0016 | 0.0076 | (0.001) | 0.0034 | (0.004) | | 31 mm Ø x 2 mm |
| BS A485-1 | 0.006 | | | | | (0.0008) | | | 0.011 | | 0.003 | | | 39 mm Ø x ~7 or 19+ mm |
| KUT B15 | | | | | | | | | | | (0.33) | | | 30-35mm Ø x 39 mm |
| VS UG75 | | | | | | | | | | | (0.006) | (0.02) | | ~40 mm Ø x ~26 mm |
| CZ LA-4C | (0.003) | 0.0005 | | | | | | | (0.006) | | (0.010) | 0.008 | | ~37 mm Ø x 25 mm |
| 12X 19965A | | | | | | | | | 0.0070 | | 0.0087 | | Zn:0.0008 | ~41 mm Ø x ~15 mm |
| SS 401/2 | | | | | | | | | | | 0.496 | | | 38 mm Ø x 19 mm |
| IMZ 119 | | | (0.0002) | | | | | | | | 0.006 | | | 40 mm Ø x 40 mm |
| VS UG3/5 | | | | | | | | | | | 0.54 | 0.81 | | ~45 mm Ø x ~28 mm |
| VS UG89 | 0.0043 | | | | | | 0.0003 | 0.0011 | | | 0.021 | | | ~47 mm Ø x ~30 mm |
| VS UG110 | | | | | | | | | | | | 0.004 | | ~45 mm Ø x ~25 mm |
| VS UG21/6 | | | | | | | | | | | | | | ~45 mm Ø x ~28 mm |
| 12X LA5C | 0.0085 | | | | | | 0.0085 | | 0.0100 | | 0.579 | | Zn:0.0091 | ~40 mm Ø x ~15 mm |
| IARM 172A | (0.005) | 0.0003 | | | | 0.0006 | (<0.01) | | 0.003 | | 0.003 | 0.038 | | 31 mm Ø x 2 or 18 mm |
| SS 403/2 | | | | | | | | | | | 0.341 | | | 38 mm Ø x 19 mm |
| IMZ 64/2 | | | | | | | | | | | | | | 40 mm Ø x 40 mm |
| ECRM 059-2D | | | | | | | | | | | | | | 38 mm Ø x 25 or 30 mm |
| CZ CM-1C | 0.036 | 0.0020 | 0.0007 | | | | 0.005 | 0.01 | 0.012 | | 0.073 | 0.064 | 0.051 | ~39 mm Ø x 25 mm |
| CZ CM-4B | 0.015 | 0.017 | | | | | 0.022 | 0.052 | 0.028 | | 0.18 | 0.116 | Zn:0.007 | ~39 mm Ø x 25 mm |
| SS 404/2 | | | | | | | | | | | 0.107 | | | 38 mm Ø x 19 mm |
| IMZ 118 | | | (0.0002) | | | | | | 0.22 | | 0.059 | | | 40 mm Ø x 40 mm |
| IMZ 116 | | | | | | | | | | | 0.076 | | | 40 mm Ø x 40 mm |
| VS UG96 | | | | | | | | | | | 0.0030 | | | ~40 mm Ø x ~28 mm |
| SRM 1764a | 0.0100 | (0.0010) | | (95.1) | | | | | (0.024) | 0.0297 | 0.1063 | (0.0016) | (0.0012) | 34 mm Ø x 19 mm |
| DSZU C07 | (0.0005) | 0.005 | | | | | (0.0003) | (0.0005) | (0.0026) | | 0.988 | 0.140 | | 40 mm Ø x 30 mm |
| VS UG119 | | | | | | | | | 0.0018 | | | | | ~45 mm Ø x ~25 mm |
| 12X 10550 | 0.0059 | | | | | | | | | | | | Zn:(0.0016) | ~40 mm Ø x ~15 mm |
| 12X LA4B | | | | | | | | | | | 0.328 | 0.091 | | 42 mm Ø x 15 mm |
| 12X 61500A | | | | | | | | | 0.0114 | | 0.110 | | Zn:0.0055 | ~38 mm Ø x ~15 mm |
| CZ CM-6A | 0.025 | 0.015 | | | | | 0.017 | 0.03 | 0.017 | | 0.05 | 0.04 | 0.04 | ~39 mm Ø x 25 mm |
| CZ BO-2B | 0.0057 | | (0.0008) | | | | | | 0.0062 | | (0.001) | (0.005) | | ~37 mm Ø x ~25 mm |
| 12X LA3C * | 0.034 | * Provisional Analysis | | | | | | | | | 0.16 | Zn:0.003 | 0.02 | ~40 mm Ø x ~15 mm |
| IARM 34C | 0.0024 | 0.0003 | (0.0004) | | | 0.0008 | (0.0003) | (0.001) | 0.0058 | | 0.206 | (0.003) | (0.001) | 31 mm Ø x 2 or 18 mm |
| BS 43A | | | | | | | | | 0.011 | | 0.148 | | | 41 mm Ø x ~7 or 19+ mm |
| BS 4941 | (0.004) | | (0.0002) | | | 0.0017 | | | 0.006 | | 0.164 | | | 41 mm Ø x ~7 or 19+ mm |
| Number | As | B | Ca | Fe | Mg | O | Pb | Sb | Sn | Ta | V | W | Zr | Units |
| IMZ 103A | | 0.006 | | | | | | | (0.005) | | 0.17 | | | 40 mm Ø x 40 mm |
| IMZ 117 | | | (0.0002) | | | | | | | | 0.087 | | | 40 mm Ø x 40 mm |
| BS 1144 | 0.009 | | | | | 0.0016 | (0.001) | | 0.0113 | | 0.0039 | (0.003) | last | 38 mm Ø x 19 mm 17025 |
| IPT 503 | | | | | | | 0.008 | | | | | | | 35 mm Ø x 20 mm |
| SRM C1173 | | | | | | | | | | | 0.42 | | | 32 mm Ø x 19 mm |
| 12X 41450A | 0.0053 | | | | | | | | 0.0090 | | 0.0385 | | | ~38 mm Ø ~15 mm |
| BS XCCV | 0.002 | | | | (0.0018) | | (<0.0006) | (0.0003) | (0.0004) | | (0.003) | | (0.0002) | 36 mm Ø x ~7 or 19+ mm |
| 12X LA3B | | 0.0015 | | | | | 0.0149 | | Zn:0.0098 | | 0.157 | | (0.027) | ~40 mm Ø x ~15 mm |
| NM PC-4 | | | | | | | | | | | | | | 40 mm Ø x 20 mm |
| BS 4340A | 0.0059 | (0.0002) | (0.0002) | 95.4 | 0.0004 | 0.0007 | (0.0003) | (0.0018) | 0.0081 | | 0.0024 | 0.0005 | 0.0016 | 38 mm Ø x ~7 or 19+ mm 17025 |
| SRM 1173 | | | | | | | | | | | 0.42 | | | 32 mm Ø x 19 mm |
| FE2015-N | | | | | | | | | | | 0.006 | | | 35 mm Ø x 20 mm |
| BS 440 | 0.0043 | (0.0002) | 0.0005 | 95.5 | (0.0002) | 0.0012 | (0.0002) | (0.0013) | 0.0063 | | 0.0033 | 0.0012 | 0.0005 | 38 mm Ø x ~7 or 19+ mm 17025 |
| IARM 252C | 0.004 | (0.0001) | (0.0003) | | | (0.002) | 0.001 | <0.005 | 0.007 | | 0.005 | <0.005 | <0.002 | 31 mm Ø x 2 mm |
| BS 4942 | 0.005 | | 0.0006 | | | (0.0021) | | | 0.014 | | 0.28 | | | 38 mm Ø x ~7 or 19+ mm last |
| BS 1962 | 0.007 | | 25(pre-17025) | | (0.0001) | | (0.001) | | 0.010 | | 0.004 | | | 41 mm Ø x ~7 or 19+ mm |
| VS UG116 | | | | | | | | | | | | | | ~45 mm Ø x ~25 mm |
| BS 67C | | | | | | (0.0014) | | | 0.010 | | 0.0022 | | 17025 | 38 mm Ø x ~7 or 19+ mm |
| SS 114 | 0.0025 | 0.0008 | | | | | | | 0.041 | | 0.0086 | | | 44 mm Ø x 19 or 50 mm |
| IMZ 63/2 | | | | | | | | | | | | | 0.0051 | 40 mm Ø x 40 mm |
| SS 225/2 | | | | | | | | | | | | | | 38 mm Ø x 19 mm |
| IPT 504 | | | | | | | | | | | | | | 36 mm Ø x 20 mm |
| 12X 826M40A | 0.0056 | | | | | | | | 0.0085 | | | | | ~38 mm Ø x ~15 mm |
| DSZU C06 | (0.003) | 0.003 | | | | | (0.002) | | (0.006) | | 0.072 | 0.026 | (0.0001) | 40 mm Ø x 30 mm |
| BS 4942A | 0.0031 | (0.0001) | 0.0012 | 96.8 | 0.0004 | 0.0020 | (0.0007) | (0.001) | 0.0044 | | 0.280 | (0.0009) | (0.001) | 38 mm Ø x ~7 or 19+ mm 17025 |
| CKD 186D | 0.007 | 0.0009 | | | | | | (0.002) | 0.018 | 0.008 | 0.021 | 0.054 | (0.002) | 44 mm Ø x 13 or 25 mm |
| IARM 31F | (0.005) | 0.0003 | 0.0005 | | (0.0003) | (0.001) | (0.001) | (0.002) | 0.015 | (0.003) | 0.0028 | (0.005) | (0.001) | 31 mm Ø x 2 mm |
| VS RG30/1 | | | | | | | | | | | 0.70 | 0.89 | | ~45 mm Ø x ~28 mm |
| VS UG79 | | | | | | | | | | | (0.02) | (0.01) | | ~40 mm Ø x ~26 mm |
| IRSID 1731 | | | | | | | | | | | | | | 44 mm Ø x 30 mm |
| DSZU C045 | 0.0052 | (0.0004) | 0.0005 | | | | | | 0.0050 | | 0.004 | (0.011) | | 40 mm Ø x 25 mm |
| CZ LA-5B | 0.016 | 0.0009 | | | | | 0.015 | 0.011 | 0.028 | | 0.47 | 0.59 | 0.017 | ~39 mm Ø x 25 mm |
| VS UG3/10 | | | | | | | | | 0.0057 | | 0.0053 | 0.006 | | ~45 mm Ø x ~28 mm |
| 12X 605M36A * | 0.0102 | | 0.0033 | | | | | | | | | | | |

LOW ALLOY STEEL WITH 0.13 % < C < 0.3 %

CONTINUED ON THE NEXT PAGE

= Class, where 1 = CRM and 2 = RM

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Als | As | Co | Mo | N | Sn | V |
|---|--------------|---------|-------|---------|----------|--------|--------|--------|--------|---------|-------|---------|---------|----------|----------|----------|----------|
| 1 | IARM 330A | 0.299 | 1.00 | (0.005) | (0.001) | 0.273 | 0.074 | 1.80 | 0.90 | 0.045 | . | (0.003) | 0.0063 | 0.404 | 0.0024 | 0.0039 | 0.071 |
| 1 | SRM 1269 | 0.298 | 1.35 | 0.012 | 0.0061 | 0.189 | 0.095 | 0.108 | 0.201 | 0.016 | . | . | . | 0.036 | . | . | 0.004 |
| 1 | 12X 352D | 0.298 | 0.627 | 0.066 | 0.125 | 0.338 | 0.144 | 0.334 | 0.423 | 0.146 | . | 0.0095 | 0.0504 | 0.257 | . | 0.105 | 0.0584 |
| 1 | ECRM 086-1D | 0.297 | 0.879 | 0.024 | 0.037 | 0.206 | 0.320 | 0.168 | 0.150 | . | . | 0.023 | . | . | . | . | 0.026 |
| 2 | RM Fe 2/3 | 0.296 | 0.69 | 0.042 | 0.013 | 0.45 | 0.36 | 0.83 | 0.59 | 0.015 | . | 0.045 | 0.053 | 0.31 | 0.0197 | 0.033 | 0.33 |
| 2 | CZ CM-3A | 0.295 | 0.37 | 0.016 | 0.0013 | 0.27 | 0.16 | 1.82 | 1.87 | 0.05 | . | 0.005 | 0.012 | 0.33 | 0.007 | 0.007 | 0.007 |
| 1 | VS UG9/10 | 0.294 | 0.616 | . | (0.003) | 0.235 | 0.169 | 0.144 | 0.170 | 0.280 | . | . | . | 0.282 | 0.015 | 0.0017 | 1.25 |
| 2 | HRT FE2000-N | 0.294 | 0.49 | 0.014 | 0.007 | 0.30 | 0.07 | 1.96 | 1.99 | 0.025 | . | . | 0.012 | 0.34 | . | . | 0.017 |
| 1 | VS RG27/1 | 0.290 | 0.74 | 0.044 | 0.0043 | 0.28 | 0.208 | 0.142 | 1.83 | 1.07 | . | . | 0.025 | 0.191 | . | . | 0.072 |
| 1 | IMZ 178 | 0.29 | 0.65 | 0.016 | 0.003 | 0.28 | 0.140 | 2.09 | 1.26 | 0.051 | . | . | 0.015 | 0.20 | 0.0160 | 0.011 | 0.011 |
| 1 | 12X 15254Z | 0.285 | 1.117 | 0.043 | 0.047 | 0.916 | 0.123 | 0.394 | 2.12 | 0.599 | . | . | 0.550 | 0.758 | . | 0.0651 | 0.290 |
| 1 | SRM 1225 | 0.274 | 0.48 | 0.007 | 0.014 | 0.221 | 0.018 | 0.91 | . | . | . | . | . | 0.166 | . | . | 0.004 |
| 1 | BS HiCal-1 | 0.271 | 1.00 | (0.007) | 0.0007 | 1.29 | 0.152 | 3.28 | 1.55 | 0.070 | . | 0.0022 | 0.0024 | 0.379 | . | (0.0002) | 0.0027 |
| 2 | BS 69B | 0.258 | 1.28 | 0.008 | 0.013 | 1.27 | 0.086 | 1.71 | 0.28 | 0.024 | . | . | 0.035 | 0.39 | 0.0057 | 0.006 | (0.002) |
| 1 | 12X 12750U | 0.258 | 0.510 | 0.0078 | 0.0053 | 0.599 | 0.106 | 0.786 | 0.792 | 0.253 | . | . | 0.581 | 0.088 | . | 0.110 | 0.102 |
| 1 | 12X 32550A | 0.257 | 1.350 | 0.0061 | 0.0054 | 1.59 | 0.108 | 1.750 | 0.377 | 0.0178 | . | 0.0054 | . | 0.417 | 0.0101 | 0.0206 | 0.0222 |
| 1 | IARM 195B | 0.255 | 1.84 | 0.018 | 0.005 | 1.16 | 0.52 | 1.00 | 0.216 | 0.029 | . | . | 0.021 | 0.101 | 0.052 | 0.0070 | 0.084 |
| 2 | BS 6418 | 0.255 | 1.42 | 0.010 | 0.004 | 1.54 | 0.11 | 1.74 | 0.34 | 0.027 | . | 0.0044 | 0.010 | 0.42 | 0.0066 | 0.006 | 0.003 |
| 1 | VS UG6/9 | 0.248 | 0.366 | 0.020 | 0.0084 | 0.404 | 0.239 | 0.328 | 1.79 | 0.55 | . | (0.001) | . | 0.205 | 0.0050 | 0.111 | 0.351 |
| 1 | IRSID 1741 | (0.244) | 0.466 | 0.037 | . | 0.380 | 0.117 | 0.962 | . | (0.102) | . | . | . | 0.204 | . | 0.059 | 0.051 |
| 1 | CKD 181B | 0.240 | 0.988 | 0.042 | 0.008 | 0.445 | 0.095 | 0.737 | 0.669 | 0.016 | 0.014 | 0.029 | 0.050 | 0.395 | (0.005) | 0.122 | 0.307 |
| 1 | IMZ 113 | 0.24 | 0.50 | 0.022 | 0.025 | 0.10 | 0.11 | 0.13 | 1.25 | 0.007 | 0.004 | . | . | 0.050 | 0.0154 | . | 0.039 |
| 1 | DSZU C043 | 0.239 | 2.18 | 0.054 | 0.070 | 0.114 | 0.50 | 2.93 | 0.44 | 0.071 | . | . | 0.0017 | 0.005 | 0.146 | 0.0100 | 0.0023 |
| 1 | 12X 722M24A | 0.236 | 0.510 | 0.0135 | 0.0199 | 0.262 | 0.200 | 0.208 | 3.094 | 0.0187 | . | 0.0075 | . | 0.497 | . | 0.0116 | 0.0080 |
| 1 | VS UG6/5 | 0.232 | 0.39 | (0.006) | (0.008) | 0.51 | 0.257 | (0.2) | 1.85 | (0.4) | . | . | . | (0.2) | . | . | 0.34 |
| 1 | IARM 229B * | 0.22 | 0.86 | 0.008 | 0.011 | 0.33 | 0.015 | 0.029 | 0.016 | 0.026 | . | 0.0011 | 0.011 | 0.49 | 0.007 | 0.001 | 0.006 |
| 1 | ECRM 197-1D | 0.219 | 0.792 | 0.0073 | 0.0232 | 0.275 | 0.152 | 0.148 | 0.451 | 0.0313 | . | 0.0083 | 0.0135 | 0.402 | 0.0114 | 0.0097 | . |
| 2 | BS 3961 | 0.215 | 0.565 | 0.016 | 0.022 | 0.236 | 0.133 | 1.67 | 0.510 | 0.022 | . | . | (0.010) | 0.27 | 0.0079 | (0.008) | (0.002) |
| 2 | TL 1668 | 0.2146 | 1.643 | 0.0137 | 0.0012 | 1.645 | 0.0108 | 0.0164 | 0.0173 | 0.0371 | . | 0.0016 | 0.0031 | (0.0014) | 0.0043 | 0.0047 | 0.0016 |
| 1 | IPT 502 | 0.210 | 0.823 | 0.018 | 0.026 | 0.198 | 0.121 | 0.408 | 0.485 | 0.024 | . | . | 0.0083 | 0.155 | 0.0069 | . | . |
| 1 | BS 8620E | 0.210 | 0.800 | 0.011 | 0.0238 | 0.255 | 0.186 | 0.564 | 0.541 | 0.027 | . | 0.0044 | 0.0068 | 0.223 | 0.0080 | 0.011 | 0.0024 |
| 1 | IARM 33D | 0.209 | 0.593 | 0.009 | 0.023 | 0.207 | 0.072 | 1.78 | 0.139 | 0.026 | . | 0.0035 | 0.008 | 0.229 | 0.0053 | 0.005 | 0.002 |
| 2 | BS 3952 | 0.208 | 0.546 | 0.011 | 0.021 | 0.264 | 0.202 | 0.112 | 0.105 | 0.048 | . | . | . | 0.519 | (0.0005) | . | . |
| 1 | ECRM 187-2D | 0.2038 | 1.257 | 0.0066 | (0.0300) | 0.2111 | 0.1288 | 0.1755 | 1.132 | 0.0223 | . | 0.0057 | 0.0112 | 0.0623 | 0.0105 | 0.0237 | 0.0122 |
| 1 | BS 9325A | 0.203 | 0.969 | 0.0079 | 0.0045 | 0.612 | 0.163 | 3.29 | 1.50 | 0.0056 | . | 0.0024 | 0.0093 | 0.358 | 0.0076 | (0.0003) | (0.0024) |

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Als | As | Co | Mo | N | Sn | V |
|---|--------------|--------|-------|---------|---------|--------|--------|--------|--------|---------|--------|----------|---------|---------|----------|---------|----------|
| 1 | BS 4820A | 0.203 | 0.64 | 0.008 | 0.014 | 0.185 | 0.212 | 3.28 | 0.116 | 0.029 | . | 0.006 | 0.008 | 0.203 | 0.0076 | 0.0097 | 0.0010 |
| 1 | SRM 1763a | 0.202 | 1.584 | 0.0123 | 0.022 | 0.633 | 0.042 | 0.513 | 0.498 | 0.0435 | . | 0.055 | 0.093 | 0.490 | (0.0045) | (0.011) | 0.307 |
| 1 | VS RG29/1 | 0.202 | 0.29 | 0.009 | 0.0090 | 0.22 | 1.25 | 4.71 | 0.89 | 0.0050 | . | . | 0.115 | 1.01 | . | . | 0.40 |
| 1 | VS RG31/1 | 0.200 | 0.191 | 0.0039 | 0.0058 | 0.28 | 0.39 | 2.12 | 1.28 | 0.30 | . | . | 0.273 | 0.30 | . | . | 0.200 |
| 1 | KUT B3 | 0.20 | 0.14 | (0.012) | 0.025 | 0.53 | 0.25 | . | 5.94 | . | . | . | . | . | . | . | 1.16 |
| 1 | VS UG5/5 | (0.2) | 0.52 | (0.005) | (0.03) | 0.145 | 0.37 | 0.42 | 1.42 | 0.19 | . | . | . | 0.44 | . | . | 0.29 |
| 1 | 12X 86200A | 0.198 | 0.849 | 0.0110 | 0.0104 | 0.299 | 0.213 | 0.598 | 0.602 | 0.0305 | . | 0.0051 | . | 0.224 | 0.0091 | 0.0100 | 0.0045 |
| 1 | 12X LA2E | 0.195 | 0.57 | 0.0241 | 0.0263 | 0.678 | 0.786 | 0.783 | 0.833 | 1.381 | . | 0.282 | 0.0306 | 0.136 | 0.0173 | 0.0066 | 0.0990 |
| 1 | IMZ 112 | 0.195 | 0.43 | 0.022 | 0.016 | 0.27 | 0.055 | 0.046 | 0.034 | 0.034 | 0.024 | . | . | 0.043 | 0.010 | 0.15 | 0.045 |
| 1 | 12X 349D | 0.194 | 0.498 | 0.0162 | 0.0232 | 0.201 | 0.106 | 0.289 | 0.268 | 0.149 | . | 0.0096 | 0.021 | 0.123 | . | 0.153 | 0.0172 |
| 1 | VS UG8/10 | 0.192 | 1.81 | 0.0064 | (0.005) | 0.61 | 0.198 | 0.348 | 0.729 | 0.082 | . | . | . | 0.030 | 0.0185 | 0.0052 | . |
| 1 | VS UG114 | 0.190 | 1.65 | 0.010 | 0.0074 | 0.59 | 0.173 | 0.345 | 1.03 | 0.146 | . | . | . | 0.016 | . | . | 0.0031 |
| 2 | BS 51F | 0.190 | 0.52 | 0.016 | 0.018 | 0.24 | 0.231 | 1.68 | 0.157 | 0.021 | . | (0.0024) | 0.009 | 0.224 | 0.0060 | 0.009 | 0.003 |
| 1 | IMZ 162 | 0.19 | 1.31 | 0.021 | 0.014 | 0.59 | 0.077 | 1.64 | 0.91 | (0.040) | . | . | . | 0.52 | . | . | 0.045 |
| 1 | VS UG113 | 0.189 | 1.55 | 0.0087 | 0.0070 | 0.59 | 0.185 | 0.186 | 1.12 | 0.263 | . | . | . | 0.010 | . | . | 0.0040 |
| 2 | BS 4620 | 0.189 | 0.57 | 0.006 | 0.018 | 0.25 | 0.216 | 1.75 | 0.072 | 0.032 | . | 0.0084 | 0.012 | 0.24 | 0.0078 | 0.013 | (0.0008) |
| 1 | ECRM 192-1D | 0.1875 | 1.377 | 0.0029 | 0.0010 | 0.219 | 0.0453 | 0.755 | 0.0717 | 0.0306 | 0.0285 | . | 0.0055 | 0.482 | 0.0118 | . | . |
| 1 | VS UG112 | 0.186 | 1.63 | 0.0065 | 0.0050 | 0.60 | 0.157 | 0.185 | 0.98 | 0.026 | . | . | . | 0.021 | . | . | 0.014 |
| 1 | DSZU C08 | 0.184 | 0.756 | 0.019 | 0.008 | 0.389 | 0.550 | (6.6) | 2.34 | 0.011 | . | (0.011) | 0.062 | 0.514 | . | (0.014) | 0.216 |
| 2 | BS LF3 | 0.183 | 0.52 | 0.006 | 0.018 | 0.206 | 0.080 | 3.36 | 0.098 | 0.017 | . | 0.006 | 0.056 | 0.056 | 0.0054 | 0.006 | (0.002) |
| 2 | HRT FE2012-N | 0.18 | 0.70 | 0.010 | 0.008 | 0.31 | 0.14 | 0.13 | 0.25 | 0.030 | . | . | . | 0.26 | . | . | . |
| 1 | IMZ 74A | 0.179 | 1.19 | 0.008 | 0.010 | 0.34 | 0.209 | 0.130 | 0.197 | 0.012 | . | . | 0.0043 | 0.047 | 0.0118 | . | 0.072 |
| 1 | 12X 19MNV56A | 0.174 | 1.563 | 0.0114 | 0.0245 | 0.357 | 0.203 | 0.110 | 0.1087 | 0.0101 | . | . | . | 0.0270 | 0.0210 | 0.0214 | 0.0939 |
| 1 | ECRM 087-1D | 0.174 | 0.671 | 0.010 | 0.046 | 0.263 | 0.171 | 0.118 | 0.078 | . | . | 0.024 | 0.015 | 0.021 | . | . | 0.017 |
| 1 | 12X 15253S | 0.173 | 0.992 | 0.0552 | 0.053 | 0.299 | 0.326 | 0.506 | 1.505 | 0.024 | . | 0.0259 | 0.0898 | 0.513 | 0.0235 | 0.129 | 0.242 |
| 1 | 12X 15180A | 0.170 | 1.196 | 0.0110 | 0.0022 | 0.212 | 0.141 | 0.1030 | 0.118 | 0.018 | . | 0.0117 | . | 0.0231 | 0.0051 | 0.0115 | . |
| 1 | HRT FE2013-N | 0.17 | 0.57 | 0.013 | 0.010 | 0.33 | 0.09 | 1.45 | 1.52 | 0.026 | . | . | . | 0.26 | . | . | . |
| 1 | ECRM 194-2D | 0.1694 | 1.282 | 0.0137 | 0.00049 | 0.2974 | 0.0313 | 0.3316 | 0.760 | 0.0669 | . | 0.00208 | 0.00328 | 0.402 | 0.00319 | . | 0.00161 |
| 2 | BS 3962 | 0.168 | 0.58 | 0.007 | 0.018 | 0.244 | 0.146 | 1.83 | 0.138 | 0.023 | . | 0.005 | 0.007 | 0.219 | 0.0072 | 0.007 | (0.001) |
| 2 | CZ CM-8A | 0.16 | 2.13 | 0.007 | 0.011 | 0.18 | 0.03 | 0.03 | 1.38 | 0.02 | . | (0.002) | 0.004 | (0.001) | . | (0.003) | 0.008 |
| 2 | HRT FE1999-N | 0.16 | 0.59 | 0.011 | 0.005 | 0.22 | 0.11 | 0.09 | 0.87 | 0.027 | . | . | . | 0.46 | 0.0091 | . | 0.021 |
| 2 | BS XCCT | 0.158 | 0.52 | 0.005 | 0.011 | 0.28 | 0.027 | 1.27 | 0.65 | 0.006 | . | 0.004 | 0.017 | 0.020 | 0.0076 | (0.002) | 0.031 |
| 1 | IMZ 176A | 0.15 | 0.75 | 0.018 | 0.003 | 0.35 | 0.103 | 3.62 | 0.41 | (0.058) | . | . | (0.010) | 0.027 | 0.0129 | 0.009 | (0.061) |
| 1 | 12X 12747U | 0.149 | 2.02 | 0.029 | 0.041 | 0.337 | 0.437 | 0.391 | 0.443 | 0.015 | . | 0.0114 | 0.200 | 0.500 | . | 0.167 | 0.0375 |
| 2 | BS 15A | 0.142 | 1.12 | 0.016 | 0.008 | 0.058 | 0.030 | 0.029 | 0.044 | 0.041 | . | 0.003 | 0.005 | 0.008 | . | 0.002 | 0.012 |
| 2 | RM Fe C/2 | 0.14 | 1.29 | 0.087 | 0.072 | 0.53 | 0.68 | 0.41 | 0.38 | 0.005 | . | 0.052 | 0.11 | 0.21 | . | 0.049 | 0.073 |
| 1 | ECRM 193-1D | 0.14 | 0.97 | 0.007 | | | | | | | | | | | | | |

LOW ALLOY STEEL WITH 0.13 % < C < 0.3 %

CONTINUED FROM THE PREVIOUS PAGE

| Number | B | Ca | Fe | Mg | Nb | O | Pb | Sb | Ta | Ti | W | Zn | Zr | Units |
|-------------------|-----------|---------------|----------|----------|----------|----------|------------------------|----------|----------|-----------------|---------------|--------------|----------|--------------------------------|
| IARM 330A | 0.0003 | 0.0010 | . | . | (0.003) | (0.0009) | (0.0004) | (0.001) | . | 0.006 | (0.004) | . | 0.0015 | 31 mm Ø x 2 mm |
| SRM 1269 | . | . | . | . | . | . | 0.005 | . | . | . | . | . | . | 32 mm Ø x 19 mm |
| 12X 352D | . | . | . | . | . | . | . | . | . | 0.285 | 0.223 | . | . | -40 mm Ø x -15 mm |
| ECRM 086-1D | . | . | . | . | . | . | . | . | . | . | . | . | . | 38 mm Ø x 25 or 30 mm |
| RM Fe 2/3 | 0.0015 | <0.001 | . | . | . | . | . | . | . | 0.045 | 0.038 | . | . | 40 mm Ø x 40 mm |
| CZ CM-3A | 0.0002 | . | . | . | 0.006 | . | . | . | . | 0.006 | 0.015 | . | . | -39 mm Ø x 25 mm |
| VS UG9/10 | . | . | . | . | . | . | . | . | . | 0.163 | 1.34 | . | . | -45 mm Ø x -28 mm |
| HRT FE2000-N | . | 0.0015 | . | . | . | . | . | . | . | . | 0.025 | . | . | 40 mm Ø x 20 mm |
| VS RG27/1 | . | . | . | . | . | . | . | . | . | 0.110 | 0.170 | . | . | -45 mm Ø x -28 mm |
| IMZ 178 | . | . | . | . | 0.105 | . | . | . | . | . | 0.017 | . | . | 40 mm Ø x 40 mm |
| 12X 15254Z | . | . | . | . | 0.347 | . | . | . | . | 0.303 | 0.349 | . | . | -40 mm Ø x -15 mm |
| SRM 1225 | . | . | . | . | . | . | . | . | . | . | . | . | . | 32 mm Ø x 19 mm |
| BS HiCal-1 | (0.0001) | 0.0140 [91.9] | (0.0003) | (0.002) | (0.002) | . | (0.0005) | . | . | 0.0037 (0.0009) | (0.0009) | . | (0.0008) | -38 mm Ø x -30 mm 17025 |
| BS 69B | . | . | . | . | . | . | . | . | . | (0.002) | . | . | . | 38 mm Ø x -7 or 19+ mm |
| 12X 12750U | . | . | . | . | 0.111 | . | . | . | . | 0.159 | 0.100 | . | . | -40 mm Ø x -15 mm |
| 12X 32550A | . | . | . | . | . | . | . | . | . | . | . | . | . | -38 mm Ø x -15 mm |
| IARM 195B | 0.0039 | 0.0002 | . | . | 0.007 | 0.0017 | 0.002 | 0.011 | . | 0.002 | 0.38 | . | 0.002 | 31 mm Ø x 2 or 18 mm |
| BS 6418 | . | . | . | . | . | 0.0012 | . | . | . | 0.003 | . | . | . | 57 mm Ø x -7 or 19+ mm |
| VS UG6/9 | (0.0003) | . | . | . | (<0.001) | . | 0.008 | . | . | 0.015 | 0.136 | . | . | -45 mm Ø x -28 mm last |
| IRSID 1741 | . | . | . | . | . | . | . | . | . | (0.049) | . | . | . | 38 mm Ø x 25 mm |
| CKD 181B | 0.0076 | . | (95.37) | . | 0.062 | . | 0.0005 | 0.017 | 0.042 | 0.155 | 0.188 | . | 0.001 | 44 mm Ø x 13 or 25 mm |
| IMZ 113 | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| DSZU C043 | (0.0005) | 0.0005 | . | . | 0.004 | . | . | . | . | 0.046 | 0.082 | . | . | 40 mm Ø x 25 mm |
| 12X 722M24A | . | . | . | . | . | . | . | . | . | . | . | 0.0028 | . | -38 mm Ø x -15 mm |
| VS UG6/5 | . | . | . | . | (0.01) | . | . | . | . | (0.01) | 0.16 | . | . | -45 mm Ø x -28 mm |
| IARM 229B * | (0.001) | (0.001) | . | . | (0.002) | (0.002) | * Provisional Analysis | | | | 0.002 (0.002) | . | (0.001) | 31 mm Ø x 2 or 18 mm |
| ECRM 197-1D | . | . | . | . | . | . | . | . | . | 0.0005 | . | . | . | 38 mm Ø x 40 mm |
| BS 3961 | . | . | . | . | . | . | . | . | . | (<0.003) | . | . | . | 44 mm Ø x -7 or 19+ mm |
| TL 1668 | (0.00024) | 0.0019 | (0.0003) | (0.0002) | . | . | (0.0007) | (0.0003) | . | 0.0032 | . | 0.0008 | (0.0003) | 37 mm Ø x 25 mm |
| IPT 502 | . | . | . | . | . | . | . | . | . | 0.0016 | . | . | . | 36 mm Ø x 20 mm |
| BS 8620E | (0.0003) | 0.0010 | 97.2 | (0.0003) | (0.002) | 0.0016 | (0.0008) | 0.0015 | (0.0004) | 0.0016 | 0.0008 | . | (0.0008) | 38 mm Ø x -7 or 19+ mm |
| IARM 33D | 0.0002 | (0.0003) | . | . | 0.002 | 0.0013 | <0.001 | (0.002) | . | 0.003 | <0.005 | . | <0.002 | 31 mm Ø x 2 or 18 mm |
| BS 3952 | . | . | . | . | . | . | . | . | . | . | . | . | . | 39 mm Ø x -7 or 19+ mm |
| ECRM 187-2D | 0.00048 | . | . | . | . | . | . | . | . | . | . | . | . | 39 mm Ø x 28 mm |
| BS 9325A | (0.0001) | 0.0039 | 92.8 | (0.0002) | 0.0017 | . | (0.0003) | . | (0.010) | 0.0030 | 0.024 | 17025 | (0.001) | -40 mm Ø x -30 mm |

| Number | B | Ca | Fe | Mg | Nb | O | Pb | Sb | Ta | Ti | W | Zn | Zr | Units |
|-----------------|----------|----------|----|----------|----------|----------|-----------|----------|---------|----------|----------|--------------|----------|------------------------|
| BS 4820A | 0.0002 | 0.0003 | . | 0.0003 | (0.002) | 0.0011 | (0.0002) | 0.0024 | . | 0.0012 | (0.002) | 17025 | . | 38 mm Ø x -7 or 19+ mm |
| SRM 1763a | 0.0054 | (95.3) | . | . | 0.100 | . | . | (0.011) | (0.012) | 0.308 | (0.002) | . | 0.044 | 34 mm Ø x 19 mm |
| VS RG29/1 | . | . | . | . | 0.044 | . | . | . | . | 0.020 | 0.62 | . | . | -45 mm Ø x -28 mm |
| VS RG31/1 | . | . | . | . | . | . | . | . | . | 0.21 | 0.39 | . | . | -45 mm Ø x -28 mm |
| KUT B3 | . | . | . | . | . | . | . | . | . | . | 1.19 | . | . | 30-35mm Ø x 39 mm |
| VS UG5/5 | . | . | . | . | (0.01) | . | . | . | . | (0.003) | 0.38 | . | . | -45 mm Ø x -28 mm |
| 12X 86200A | . | . | . | . | . | . | . | . | . | . | . | . | . | -38 mm Ø x -15 mm |
| 12X LA2E | . | . | . | . | . | . | . | . | . | . | . | . | . | -40 mm Ø x -15 mm |
| IMZ 112 | . | . | . | . | 0.013 | . | . | . | . | 0.010 | . | . | . | 40 mm Ø x 40 mm |
| 12X 349D | . | . | . | . | . | . | . | . | . | 0.101 | 0.049 | . | . | -40 mm Ø x -15 mm |
| VS UG8/10 | . | . | . | . | (0.003) | . | . | . | . | 0.0034 | . | . | . | -45 mm Ø x -28 mm |
| VS UG114 | . | . | . | . | . | . | . | . | . | 0.006 | . | . | 0.065 | -45 mm Ø x -25 mm |
| BS 51F | (0.0001) | (0.0005) | . | (0.0001) | (0.0005) | 0.0020 | (0.00007) | (0.0011) | . | (0.0012) | (0.0030) | (0.0002) | . | 38 mm Ø x -7 or 19+ mm |
| IMZ 162 | . | . | . | . | . | . | . | . | . | 0.12 | . | . | . | 40 mm Ø x 40 mm |
| VS UG113 | . | . | . | . | . | . | . | . | . | 0.006 | 0.007 | . | 0.169 | -45 mm Ø x -25 mm |
| BS 4620 | 0.00006 | 0.0001 | . | 0.0001 | 0.0001 | 0.0009 | 0.0002 | 0.0024 | . | 0.0026 | 0.0009 | 0.0002 | . | 38 mm Ø x -7 or 19+ mm |
| ECRM 192-1D | . | . | . | . | . | . | . | . | . | . | . | . | . | -35 mm Ø x -30 mm |
| VS UG112 | . | . | . | . | . | . | . | . | . | 0.0028 | 0.005 | . | 0.0047 | -45 mm Ø x -25 mm |
| DSZU C08 | 0.011 | . | . | . | 0.122 | . | . | . | . | 0.060 | 0.966 | (0.003) | (0.006) | 40 mm Ø x 30 mm last |
| BS LF3 | 0.0001 | (0.0001) | . | . | . | 0.004 | . | . | . | . | . | . | . | 38 mm Ø x -7 or 19+ mm |
| HRT FE2012-N | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 20 mm |
| IMZ 74A | (0.002) | (0.0004) | . | . | 0.041 | . | . | . | . | 0.022 | . | . | . | 43 mm Ø x 20 mm |
| 12X 19MNV6A | . | . | . | . | . | . | . | . | . | . | . | . | . | -40 mm Ø x -15 mm |
| ECRM 087-1D | . | . | . | . | . | . | . | 0.0046 | . | . | . | . | . | 38 mm Ø x 25 or 30 mm |
| 12X 15253S | . | . | . | . | 0.383 | . | . | 0.011 | . | . | 0.265 | . | . | -40 mm Ø x -15 mm |
| 12X 15180A | . | . | . | . | . | . | . | . | . | . | . | 0.0016 | . | -40 mm Ø x -15 mm |
| HRT FE2013-N | . | . | . | . | . | . | . | . | . | . | . | . | . | 34 mm Ø x 20 mm |
| ECRM 194-2D | 0.00155 | . | . | . | 0.0290 | . | . | . | . | 0.00322 | . | . | . | 39 mm Ø x 28 mm |
| BS 3962 | . | . | . | . | . | . | . | . | . | . | . | . | . | 37 mm Ø x -7 or 19+ mm |
| CZ CM-8A | 0.004 | . | . | . | 0.034 | . | . | . | . | (0.001) | 0.01 | . | . | -39 mm Ø x 25 mm |
| HRT FE1999-N | 0.0002 | . | . | . | 0.002 | . | . | . | . | 0.001 | . | . | . | 40 mm Ø x 20 mm |
| BS XCCT | . | . | . | . | (0.001) | (0.005) | (<0.001) | (0.0004) | . | (0.002) | . | . | (<0.002) | 36 mm Ø x -7 or 19+ mm |
| IMZ 176A | . | . | . | . | . | . | . | . | . | . | (0.015) | . | . | 40 mm Ø x 40 mm |
| 12X 12747U | . | . | . | . | . | . | . | . | . | 0.072 | 0.030 | . | . | 42 mm Ø x 15 mm |
| BS 15A | (0.0002) | (0.0005) | . | . | 0.041 | . | (0.0003) | (0.003) | . | 0.008 | (0.004) | . | 0.022 | 32 mm Ø x 17 mm last |
| RM Fe C/2 | 0.0030 | (0.0013) | . | . | 0.0073 | . | . | 0.0190 | . | 0.0074 | 0.34 | . | 0.010 | 40 mm Ø x 40 mm |
| ECRM 193-1D | . | . | . | . | 0.0232 | . | . | . | . | (0.0013) | . | . | . | 36-41 mm Ø x 28-35 mm |
| BS 45A | . | . | . | . | . | 0.0025 | . | 0.0027 | . | . | . | last | . | 38 mm Ø x -7 or -16 mm |
| BS 1972 | (0.0001) | (0.0002) | . | . | (0.001) | (0.0026) | (0.001) | (0.004) | . | (0.003) | (0.004) | . | . | 39 mm Ø x -7 or 19+ mm |
| BS 47A | . | . | . | . | 0.002 | (0.003) | . | . | . | 0.003 | . | . | . | 38 mm Ø x -7 or 19+ mm |

| Number | B | Ca | Fe | Mg | Nb | O | Pb | Sb | Ta | Ti | W | Zn | Zr | Units |
|--------|---|----|----|----|----|---|----|----|----|----|---|----|----|-------|
|--------|---|----|----|----|----|---|----|----|----|----|---|----|----|-------|

LOW ALLOY STEEL WITH C < 0.13 %

= Class, where 1 = CRM and 2 = RM

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Als | Co | Mo | N | Sn | V |
|---|-------------|---------|--------|---------|---------|---------|--------|--------|--------|---------|-------|---------|----------|----------|----------|----------|
| 1 | IMZ 76 | 0.129 | 1.37 | 0.022 | 0.011 | 0.24 | 0.057 | 0.33 | 0.12 | 0.011 | . | . | 0.101 | . | . | (0.006) |
| 1 | VS UG86 | 0.129 | 0.217 | (0.005) | (0.007) | (0.3) | 0.62 | 1.94 | 1.52 | . | . | . | 0.311 | . | . | 0.327 |
| 1 | BS 1982 | 0.128 | 0.441 | 0.012 | 0.026 | 0.255 | 0.177 | 0.197 | 2.09 | 0.021 | . | 0.010 | 0.89 | 0.0097 | 0.013 | 0.003 |
| 1 | 12X 15256Q | 0.123 | 0.492 | 0.0125 | 0.0163 | 0.190 | 0.0550 | 5.33 | 0.362 | 0.1300 | . | 0.493 | 0.0740 | 0.0056 | 0.107 | 0.619 |
| 1 | 12X 93106A | 0.122 | 0.605 | 0.0071 | 0.0103 | 0.206 | 0.199 | 3.255 | 1.107 | 0.0246 | . | . | 0.0879 | 0.0098 | 0.0094 | 0.0029 |
| 2 | BS 47B | 0.122 | 0.39 | 0.014 | 0.022 | 0.22 | 0.12 | 0.105 | 4.78 | 0.018 | . | . | 0.45 | 0.023 | 0.006 | 0.004 |
| 1 | DSZU C042 | 0.120 | 0.562 | 0.0123 | 0.0058 | 0.319 | 0.131 | 0.203 | 0.962 | 0.023 | . | 0.009 | 0.286 | 0.0100 | 0.0064 | 0.178 |
| 1 | CKD 187D | 0.119 | 0.529 | 0.035 | 0.015 | 0.576 | 0.035 | 0.085 | 3.51 | 0.024 | . | 0.071 | 0.566 | 0.0120 | 0.013 | 0.560 |
| 1 | CKD 187C | 0.118 | 0.530 | 0.035 | 0.013 | 0.588 | 0.041 | 0.085 | 3.50 | 0.038 | . | 0.071 | 0.563 | (0.0153) | 0.014 | 0.559 |
| 1 | VS UG115 | 0.115 | 0.43 | 0.0084 | 0.012 | 0.227 | 0.173 | 1.63 | 0.81 | 0.024 | . | . | 0.0126 | 0.013 | . | . |
| 1 | IMZ 71 | 0.114 | 0.54 | 0.018 | 0.011 | 0.49 | 0.88 | 0.041 | 0.46 | 0.014 | . | . | 0.008 | . | . | 0.045 |
| 1 | SRM 1138a | 0.11 | 0.35 | 0.035 | 0.056 | 0.25 | 0.09 | 0.10 | 0.13 | . | . | . | 0.05 | . | . | 0.02 |
| 1 | BS 9905 | 0.107 | 0.333 | 0.008 | 0.008 | 0.327 | 0.115 | 0.123 | 8.22 | 0.017 | . | 0.016 | 0.05 | 0.055 | 0.009 | 0.236 |
| 1 | VS UG6710 | 0.107 | 0.225 | 0.0068 | 0.0067 | 0.342 | 0.626 | 2.04 | 1.41 | 0.46 | . | 0.339 | 0.339 | 0.0156 | 0.0023 | 0.194 |
| 1 | 12X 12748U | 0.106 | 0.902 | 0.0309 | 0.050 | 0.221 | 0.347 | 0.376 | 0.401 | 0.111 | . | 0.323 | 0.329 | . | 0.080 | 0.0499 |
| 1 | IPT 500 | 0.106 | 0.844 | 0.016 | 0.0048 | 0.282 | 0.270 | 0.018 | 0.612 | 0.046 | . | 0.0046 | 0.0013 | 0.0092 | 0.002 | 0.003 |
| 1 | 12X LA1B | 0.104 | 1.262 | 0.0090 | 0.060 | 0.777 | 0.0572 | 0.210 | 1.026 | 0.0104 | . | 0.0144 | 0.068 | 0.0144 | . | 0.448 |
| 1 | KUT A13 | 0.104 | 0.49 | 0.053 | 0.073 | 0.81 | 0.166 | 1.93 | 0.14 | 0.042 | . | 0.011 | 0.91 | . | 0.060 | 0.23 |
| 1 | VS UG6/6 | 0.104 | 0.227 | (0.007) | (0.007) | 0.337 | 0.616 | 2.05 | 1.40 | 0.47 | . | (0.008) | 0.34 | . | 0.0023 | 0.193 |
| 2 | BS 58E | 0.100 | 0.63 | 0.009 | 0.002 | 0.29 | 0.154 | 3.22 | 1.40 | 0.029 | . | 0.013 | 0.110 | 0.0033 | 0.003 | 0.006 |
| 1 | IMZ 175 | 0.099 | 0.25 | 0.016 | 0.0040 | 0.22 | 0.130 | 3.12 | 0.515 | 0.043 | . | (0.013) | 0.025 | 0.0099 | 0.011 | 0.014 |
| 2 | BS 58C | 0.098 | 0.57 | 0.011 | 0.014 | 0.29 | 0.14 | 3.20 | 1.29 | (0.055) | . | . | 0.11 | . | (0.012) | . |
| 1 | IMZ 73 | 0.097 | 0.68 | 0.019 | 0.013 | 0.12 | 0.17 | 0.13 | 0.079 | 0.010 | . | . | 0.013 | . | . | 0.022 |
| 1 | KUT T3/2 | 0.09 | 0.60 | 0.058 | 0.033 | 0.65 | 0.10 | 0.11 | 0.40 | . | . | . | . | . | . | . |
| 1 | 12X LA6B | 0.089 | 0.148 | 0.0115 | 0.0097 | 0.133 | 0.071 | 0.0112 | 0.0377 | 0.204 | . | 0.0067 | 0.0073 | 0.0034 | . | 0.0162 |
| 1 | VS UG5/10 | 0.088 | 0.177 | 0.0067 | 0.0055 | 0.135 | 0.490 | 1.87 | 1.51 | 0.47 | . | . | 0.049 | 0.0059 | 0.0036 | 0.121 |
| 1 | IARM 268B | 0.087 | 0.58 | 0.011 | 0.035 | 0.21 | 0.31 | 0.127 | 0.094 | 0.002 | . | 0.003 | 0.033 | 0.0015 | 0.010 | 0.047 |
| 1 | IMZ 204 | 0.085 | 0.36 | 0.014 | 0.008 | 0.40 | 0.075 | 0.034 | 0.111 | 4.21 | . | (0.007) | (0.0052) | (0.0052) | | |
| 1 | SRM 1226 | 0.085 | 0.274 | 0.0022 | 0.0044 | 0.231 | 0.125 | 5.42 | 0.467 | 0.054 | . | 0.029 | 0.446 | . | (0.003) | 0.0018 |
| 1 | NCS HS20747 | 0.083 | 0.967 | 0.02 | 0.015 | 0.472 | . | . | . | . | . | . | . | . | . | . |
| 1 | DSZU C050 | 0.082 | 1.21 | 0.040 | 0.065 | 0.287 | 0.304 | 0.118 | 0.075 | (0.008) | . | . | 0.48 | . | (0.004) | 0.007 |
| 1 | IMZ 72 | 0.081 | 0.31 | 0.092 | 0.012 | 0.34 | 0.27 | 0.039 | 0.52 | 0.013 | . | . | 0.006 | . | . | (0.002) |
| 1 | NCS HS20745 | 0.068 | 0.813 | 0.1 | 0.024 | 0.33 | 0.297 | . | . | . | . | . | . | . | . | 0.022 |
| 1 | VS UG117 | 0.064 | 1.41 | 0.012 | 0.021 | 0.60 | 0.214 | 0.072 | 0.129 | 0.018 | . | . | (0.005) | 0.0085 | . | . |
| 1 | SRM 1271 | 0.064 | 0.73 | 0.005 | 0.0013 | 0.334 | 1.48 | 3.34 | 0.552 | 0.020 | . | . | 0.543 | . | . | 0.003 |
| 1 | SRM C1285 | 0.058 | 0.332 | 0.072 | 0.020 | 0.36 | 0.37 | 1.17 | 0.80 | . | . | 0.036 | 0.164 | . | 0.035 | 0.150 |
| 1 | SRM 1767 | 0.052 | 0.022 | 0.0031 | 0.0090 | 0.026 | 0.0014 | 0.002 | 0.0015 | 0.004 | . | 0.0050 | 0.020 | 0.0008 | 0.006 | 0.033 |
| 2 | CZ CM-7A | 0.05 | 1.17 | 0.011 | 0.016 | 0.56 | 0.09 | 0.05 | 0.10 | 0.13 | . | 0.007 | 0.015 | 0.01 | 0.008 | 0.012 |
| 1 | CKD 183E | 0.049 | 1.76 | 0.009 | 0.013 | 1.03 | 0.575 | 1.10 | 0.205 | 0.149 | . | 0.119 | 0.036 | 0.0040 | 0.053 | (0.004) |
| 1 | SS 421 | (0.049) | (0.11) | (0.012) | (0.027) | (0.07) | . | . | . | . | . | . | (0.028) | . | . | (<0.02) |
| 1 | 12X 15252Q | 0.0478 | 0.818 | 0.0213 | 0.0580 | 0.265 | 0.154 | 2.03 | 0.887 | 0.074 | . | 0.154 | 0.248 | . | 0.0448 | 0.330 |
| 1 | VS UG82 | 0.046 | 1.83 | (0.003) | (0.004) | 0.334 | 0.056 | 0.201 | 0.59 | . | . | . | 0.93 | . | . | 0.56 |
| 1 | VS UG97 | 0.041 | 0.59 | 0.0036 | 0.0025 | 0.194 | 0.0040 | 0.0080 | 0.051 | . | . | . | 0.019 | . | . | (0.001) |
| 1 | 12X LA6C | 0.018 | 0.0957 | 0.0051 | 0.0103 | 0.088 | 0.0240 | 0.0549 | 0.1592 | 0.152 | . | 0.0045 | 0.0151 | 0.0059 | . | 0.0061 |
| 1 | SRM 1766 | 0.015 | 0.067 | 0.002 | 0.0024 | 0.010 | 0.015 | 0.021 | 0.024 | 0.012 | . | 0.0020 | 0.0035 | 0.0033 | 0.0010 | 0.009 |
| 1 | KUT B20 | 0.008 | 0.09 | 0.012 | 0.013 | 0.005 | 0.034 | 0.038 | 0.03 | (0.01) | . | (<0.01) | (<0.01) | . | (0.003) | (<0.005) |
| 2 | RM Fe 1/4 | 0.008 | 0.068 | 0.006 | 0.005 | 0.016 | 0.015 | 0.022 | 0.027 | <0.002 | . | 0.0029 | 0.0016 | . | <0.002 | <0.0005 |
| 1 | SRM 1765 | 0.006 | 0.144 | 0.0052 | 0.0038 | (0.004) | 0.0013 | 0.154 | 0.051 | (0.006) | . | 0.0012 | 0.005 | 0.0010 | 0.002 | 0.0040 |
| 1 | NCS HS15749 | 0.0045 | 0.247 | 0.010 | 0.0054 | 1.54 | . | . | . | 0.050 | 0.048 | . | . | . | . | . |
| 1 | DSZU C01 | 0.004 | 0.049 | 0.002 | 0.002 | 0.014 | 0.008 | 0.530 | 0.040 | 0.004 | . | 0.217 | 0.124 | . | (0.0008) | (0.003) |
| 2 | IARM 168A | 0.003 | 0.12 | 0.030 | 0.064 | 0.46 | 0.009 | 2.32 | 0.004 | 0.19 | . | 0.003 | 0.69 | 0.0002 | 0.003 | 0.004 |
| 1 | CKD 180B | (0.003) | 0.047 | 0.004 | 0.0038 | 0.001 | 0.006 | 0.018 | 0.013 | (0.001) | . | 0.003 | 0.001 | (0.0028) | 0.0011 | 0.000 |
| 1 | ECRM 064-2D | 0.0026 | 0.1641 | . | . | 0.0065 | 0.0077 | 0.0115 | . | . | . | 0.0027 | 0.00077 | 0.0026 | 0.00051 | 0.00015 |

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Als | Co | Mo | N | Sn | V |
|---|---------------|------------|----------|-----------|---------------|-----------|-----------|----------|-----------|-----------|-----------|------------------|---------------|-----------------------|----|---|
| | Number | As | B | Ca | Ce | Fe | Nb | O | Pb | Sb | Ti | W | Zr | Units | | |
| | IMZ 76 | . | (0.001) | . | . | . | 0.068 | . | . | . | (0.003) | . | . | 40 mm Ø x 40 mm | . | . |
| | VS UG86 | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 25 mm | . | . |
| | BS 1982 | 0.007 | . | . | . | . | (0.003) | 0.0017 | (0.0003) | 0.002 | (0.001) | . | 25(pre-17025) | 39 mm Ø x ~7 or 19+mm | . | . |
| | 12X 15256Q | . | . | . | . | . | 0.0509 | . | . | . | . | 0.101 | . | 40 mm Ø x ~15 mm | . | . |
| | 12X 93106A | 0.0050 | . | . | . | . | . | . | . | . | . | . | . | 38 mm Ø x ~15 mm | . | . |
| | BS 47B | 0.004 | . | . | . | . | . | (0.004) | . | . | . | . | . | 38 mm Ø x ~7 or 19+mm | . | . |
| | DSZU C042 | 0.0073 | 0.00023 | 0.0010 | . | . | 0.0025 | . | . | . | 0.0018 | (0.006) | . | 40 mm Ø x 25 mm | . | . |
| | CKD 187D | (0.007) | 0.0006 | . | Ta: 0.016 | . | 0.028 | last | (0.003) | 0.022 | 0.096 | 0.67 | 0.012 | 44 mm Ø x 13 mm | . | . |
| | CKD 187C | (0.007) | 0.0006 | . | Ta: 0.016 | . | 0.028 | . | (0.003) | 0.023 | 0.110 | 0.67 | 0.011 | 44 mm Ø x 13 or 25 mm | . | . |
| | VS UG115 | . | . | . | . | . | . | . | . | . | 0.0014 | . | . | 45 mm Ø x ~25 mm | . | . |
| | IMZ 71 | . | (0.002) | . | . | . | (0.005) | . | . | . | (0.002) | . | (0.002) | 40 mm Ø x 40 mm | . | . |
| | SRM 1138a | . | . | . | . | . | . | . | . | . | . | . | . | 32 mm Ø x 13 mm | . | . |
| | BS 9905 | 0.007 | (0.0004) | (0.0001) | 25(pre-17025) | 0.076 | 0.0021 | (0.0002) | (0.002) | (0.002) | (0.002) | 0.003 | . | 38 mm Ø x ~7 mm last | . | . |
| | VS UG6710 | . | . | . | . | . | . | . | . | . | 0.128 | 0.41 | . | 45 mm Ø x ~28 mm | . | . |
| | 12X 12748U | 0.129 | . | . | . | . | . | . | . | . | 0.105 | 0.0464 | . | 40 mm Ø x ~15 mm | . | . |
| | IPT 500 | 0.0020 | . | . | . | . | 0.008 | . | . | . | 0.0014 | . | . | 34 mm Ø x 18 mm | . | . |
| | 12X LA1B | 0.0212 | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x ~15 mm | . | . |
| | KUT A13 | 0.070 | (0.002) | . | . | . | . | . | . | 0.024 | 0.11 | . | . | 30-35mm Ø x 39 mm | . | . |
| | VS UG6/6 | (0.002) | . | . | . | . | . | . | (0.00005) | . | 0.125 | 0.39 | . | 45 mm Ø x ~28 mm | . | . |
| | BS 58E | 0.003 | (0.0002) | (0.0002) | . | . | . | 0.0008 | . | . | (0.002) | . | . | 38 mm Ø x ~7 or 19+mm | . | . |
| | IMZ 175 | . | . | . | . | . | . | . | . | . | . | (0.019) | . | 40 mm Ø x 40 mm | . | . |
| | BS 58C | low supply | . | . | . | . | . | . | . | . | . | no uncertainties | . | 39 mm Ø x ~17 mm | . | . |
| | IMZ 73 | . | . | . | . | . | (0.01) | . | . | . | (0.002) | . | (0.0025) | 40 mm Ø x 40 mm | . | . |
| | KUT T3/2 | . | . | . | . | . | . | . | . | . | (0.001) | . | . | 30-35mm Ø x 39 mm | . | . |
| | 12X LA6B | . | . | . | . | . | . | . | . | . | . | last | Zn:0.0191 | 40 mm Ø x ~15 mm | . | . |
| | VS UG5/10 | . | . | . | . | . | (0.003) | . | . | . | 0.027 | 0.43 | . | 45 mm Ø x ~28 mm | . | . |
| | IARM 268B | <0.005 | 0.0011 | . | . | . | 0.006 | (0.015) | <0.003 | . | <0.001 | 0.01 | <0.001 | 31 mm Ø x 2 mm | . | . |
| | IMZ 204 | . | . | . | . | . | . | . | . | . | 0.035 | . | . | 36 mm Ø x 30 mm | . | . |
| | SRM 1226 | . | . | . | . | . | (0.005) | . | (0.0001) | . | 0.0021 | (0.005) | (0.010) | 32 mm Ø x 19 mm | . | . |
| | NCS HS20747 | . | . | . | . | . | 0.052 | . | . | . | . | . | . | 35 mm Ø x 40 mm | . | . |
| | DSZU C050 | (0.002) | (0.002) | . | . | . | . | . | . | . | (0.002) | . | . | 40 mm Ø x 25 mm | . | . |
| | IMZ 72 | . | . | . | . | . | (0.001) | . | | | | | | | | |

RM LOW ALLOY STEEL XRF SETPart Number: BS LAS-24 Set of 24 samples, each 35 - 45 mm Ø x 7 mm discs **17025**

| Alloy | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | As | Ca | Co | N | Sn | V |
|-----------|--------------|--------|-------|-------|--------|-------|-------|-------|-------|-------|---------|----------|----------|---------|--------|----------|----------|
| 300M | BS 4340M | 0.414 | 0.74 | 0.004 | <0.001 | 1.65 | 0.134 | 1.78 | 0.78 | 0.35 | 0.076 | 0.007 | . | 0.013 | 0.0020 | 0.009 | 0.056 |
| 1345 | BS XCCV | 0.44 | 1.75 | 0.012 | 0.024 | 0.28 | 0.015 | 0.019 | 0.041 | 0.007 | 0.033 | 0.0023 | . | 0.006 | 0.0056 | (0.0004) | (<0.003) |
| 3115 | BS XCCT | 0.158 | 0.52 | 0.005 | 0.011 | 0.28 | 0.027 | 1.27 | 0.65 | 0.020 | 0.006 | 0.004 | . | 0.017 | 0.0076 | (0.002) | 0.031 |
| 4130 | BS 3932 | 0.321 | 0.54 | 0.016 | 0.018 | 0.33 | 0.200 | 0.19 | 1.00 | 0.229 | 0.020 | 0.004 | 0.0043 | 0.011 | 0.0070 | 0.012 | 0.005 |
| 4140 | BS 1962 | 0.41 | 0.94 | 0.007 | 0.011 | 0.242 | 0.224 | 0.16 | 1.05 | 0.229 | 0.018 | 0.007 | . | 0.008 | 0.0095 | 0.010 | 0.004 |
| 4150 + S | BS 42 | 0.516 | 1.24 | 0.021 | 0.073 | 0.235 | 0.252 | 0.183 | 0.67 | 0.190 | 0.020 | (0.004) | . | 0.012 | 0.0080 | 0.012 | 0.003 |
| 4330 | BS 4330V | 0.318 | 0.91 | 0.008 | 0.0009 | 0.240 | 0.181 | 1.91 | 0.91 | 0.475 | 0.021 | . | 0.0010 | 0.011 | 0.0076 | 0.010 | 0.094 |
| 4340 | BS 60E | 0.408 | 0.70 | 0.012 | 0.024 | 0.26 | 0.153 | 1.73 | 0.86 | 0.249 | 0.024 | 0.007 | 0.0010 | 0.009 | 0.0087 | 0.009 | 0.004 |
| 4615 | BS 51E | 0.15 | 0.59 | 0.010 | 0.021 | 0.28 | 0.22 | 1.75 | 0.14 | 0.21 | 0.028 | . | . | 0.035 | 0.0086 | 0.010 | (0.0011) |
| 4620 | BS 4620 | 0.189 | 0.57 | 0.006 | 0.018 | 0.25 | 0.216 | 1.75 | 0.072 | 0.24 | 0.032 | (0.0084) | (0.0001) | 0.012 | 0.0078 | 0.013 | (0.0008) |
| 4820 | BS 4820 | 0.188 | 0.57 | 0.010 | 0.025 | 0.25 | 0.11 | 3.29 | 0.12 | 0.21 | 0.020 | 0.005 | 0.0046 | 0.008 | 0.0079 | (0.008) | (0.002) |
| 6150 | BS 43A | 0.491 | 0.811 | 0.008 | 0.026 | 0.252 | 0.184 | 0.242 | 0.93 | 0.059 | 0.003 | . | . | 0.008 | 0.0074 | 0.011 | 0.148 |
| 8620 | BS 1931 | 0.194 | 0.84 | 0.007 | 0.018 | 0.235 | 0.116 | 0.42 | 0.50 | 0.168 | 0.021 | 0.007 | (0.0008) | 0.012 | 0.0079 | 0.007 | 0.002 |
| 8822 | BS 8822 | 0.228 | 0.92 | 0.011 | 0.025 | 0.26 | 0.17 | 0.47 | 0.52 | 0.34 | 0.022 | 0.007 | (0.0004) | 0.019 | 0.0085 | 0.011 | 0.003 |
| 8740 | BS 67B | 0.40 | 0.94 | 0.007 | 0.020 | 0.23 | 0.19 | 0.53 | 0.51 | 0.22 | 0.024 | . | . | 0.011 | 0.0078 | 0.009 | (0.002) |
| 9310 | BS 58D | 0.127 | 0.45 | 0.010 | 0.005 | 0.32 | 0.156 | 3.02 | 1.35 | 0.14 | 0.042 | . | . | 0.009 | 0.0147 | 0.012 | 0.005 |
| 9325 | BS 9325 | 0.25 | 0.91 | 0.008 | 0.007 | 0.32 | 0.13 | 3.29 | 1.48 | 0.31 | 0.030 | (0.004) | 0.0049 | 0.010 | 0.0089 | 0.009 | 0.004 |
| P-20 | BS 55E | 0.307 | 0.72 | 0.014 | 0.024 | 0.60 | 0.032 | 0.053 | 1.66 | 0.40 | (0.004) | . | . | (0.005) | 0.0096 | 0.002 | 0.019 |
| AMS 6418 | BS 69B | 0.2258 | 1.28 | 0.008 | 0.013 | 1.27 | 0.086 | 1.71 | 0.28 | 0.39 | 0.024 | . | . | 0.035 | 0.0057 | 0.006 | (0.002) |
| A193 | BS 4942 | 0.414 | 0.56 | 0.015 | 0.021 | 0.22 | 0.165 | 0.16 | 0.97 | 0.54 | (0.004) | 0.005 | 0.0006 | 0.010 | 0.0080 | 0.014 | 0.28 |
| A485-1 | BS A485-1 | 0.98 | 1.10 | 0.019 | 0.004 | 0.62 | 0.16 | 0.13 | 1.07 | 0.029 | 0.017 | 0.006 | . | 0.010 | 0.0060 | 0.011 | 0.003 |
| E52100 | BS 53E | 1.08 | 0.37 | 0.007 | 0.012 | 0.24 | 0.11 | 0.26 | 1.45 | 0.10 | 0.003 | . | . | 0.011 | 0.0086 | 0.005 | 0.004 |
| Nitriding | BS 68C | 0.38 | 0.60 | 0.018 | 0.008 | 0.305 | 0.178 | 0.166 | 1.77 | 0.36 | 1.06 | (0.004) | (0.0002) | 0.011 | 0.0045 | 0.008 | 0.007 |
| LF 3 | BS LF 3 | 0.183 | 0.52 | 0.006 | 0.018 | 0.206 | 0.080 | 3.36 | 0.098 | 0.056 | 0.017 | 0.006 | (0.0001) | 0.056 | 0.0054 | 0.006 | (0.002) |

| Alloy | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | As | Ca | Co | N | Sn | V |
|-------|--------|---|----|---|---|----|----|----|----|----|----|----|----|----|---|----|---|
|-------|--------|---|----|---|---|----|----|----|----|----|----|----|----|----|---|----|---|

RM TOOL STEEL XRF SETPart Number: BS TS-18 AVAILABLE INDIVIDUALLY **17025** ~7 mm discs

| Grade | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | W | V | Co | N |
|----------|---------------|-------|-------|---------|--------|-------|-------|-------|-------|-------|---------|--------|---------|---------|--------|
| A-2 | BS 36C | 0.96 | 0.46 | 0.023 | 0.027 | 0.31 | 0.18 | 0.19 | 5.01 | 0.99 | . | (0.04) | 0.11 | 0.03 | . |
| A-10 | BS A-10 | 1.41 | 1.75 | 0.016 | 0.022 | 1.15 | 0.16 | 1.82 | 0.24 | 1.53 | 0.006 | <0.005 | (0.004) | (0.010) | . |
| D-2 | BS 37D | 1.54 | 0.28 | 0.021 | 0.015 | 0.29 | 0.063 | 0.21 | 11.07 | 1.09 | . | 0.16 | 0.80 | 0.07 | 0.016 |
| H-10 | BS 49 | 0.36 | 0.33 | 0.014 | 0.015 | 0.92 | 0.072 | 0.20 | 3.51 | 2.41 | 0.004 | 0.31 | 0.62 | 2.00 | 0.0186 |
| H-11 | BS TH11 | 0.423 | 0.31 | 0.016 | 0.005 | 0.88 | 0.041 | 0.11 | 5.04 | 1.27 | . | (0.01) | 0.46 | (0.008) | . |
| H-12 | BS TH12 | 0.372 | 0.40 | 0.020 | 0.005 | 0.92 | 0.064 | 0.16 | 5.02 | 1.41 | . | 1.06 | 0.62 | 0.07 | . |
| H-13 | BS 34D | 0.395 | 0.38 | 0.017 | 0.005 | 1.06 | 0.049 | 0.10 | 5.15 | 1.24 | . | 0.10 | 0.94 | 0.031 | . |
| L-6 | BS 39B | 0.67 | 0.62 | 0.009 | 0.019 | 0.214 | 0.163 | 1.45 | 0.79 | 0.17 | (0.011) | . | (0.01) | (0.02) | . |
| M-1 | BS TM1 | 0.86 | 0.23 | 0.007 | 0.012 | 0.46 | 0.054 | 0.057 | 3.72 | 8.4 | . | 1.7 | 1.05 | 0.45 | . |
| M-2 | BS 32C | 0.84 | 0.29 | (0.018) | 0.0010 | 0.29 | 0.13 | 0.35 | 3.98 | 4.85 | (0.02) | 6.3 | 2.03 | 0.31 | . |
| O-1 | BS 35D | 0.879 | 1.13 | 0.021 | 0.024 | 0.22 | 0.141 | 0.132 | 0.495 | 0.035 | (0.005) | 0.46 | 0.181 | 0.012 | . |
| O-6 | BS 41 | 1.41 | 0.89 | 0.013 | 0.011 | 1.02 | 0.038 | 0.15 | 0.22 | 0.23 | (0.007) | 0.035 | 0.046 | . | . |
| S-1 | BS 33E | 0.49 | 0.29 | 0.022 | 0.005 | 0.20 | 0.038 | 0.08 | 1.25 | 0.045 | . | 2.75 | 0.19 | 0.006 | . |
| S-5 | BS 38C | 0.60 | 0.81 | 0.011 | 0.012 | 2.08 | 0.26 | 0.24 | 0.28 | 0.41 | 0.015 | 0.004 | 0.214 | 0.036 | 0.0081 |
| S-7 | BS TS7 | 0.529 | 0.70 | 0.016 | 0.010 | 0.27 | 0.05 | 0.10 | 3.18 | 1.34 | . | 0.19 | 0.35 | 0.043 | . |
| T-1 | BS 30D | 0.745 | 0.348 | 0.029 | 0.0010 | 0.301 | 0.116 | 0.191 | 3.93 | 0.342 | 0.0123 | 17.73 | 1.077 | 0.101 | 0.0168 |
| | BS 10V | 2.46 | 0.52 | 0.019 | 0.079 | 0.89 | 0.076 | 0.08 | 5.41 | 1.30 | <0.002 | 0.013 | 9.50 | 0.009 | 0.064 |
| HP9-4-30 | BS 9-4-30 | 0.30 | 0.22 | 0.008 | <0.001 | 0.06 | 0.09 | 7.25 | 1.00 | 1.00 | 0.004 | 0.01 | 0.085 | 4.40 | 0.0015 |

| Grade | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | W | V | Co | N |
|-------|--------|---|----|---|---|----|----|----|----|----|----|---|---|----|---|
|-------|--------|---|----|---|---|----|----|----|----|----|----|---|---|----|---|

TOOL STEEL CONTINUED ON THE NEXT PAGE

= Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

Table with columns: #, Number, C, Mn, P, S, Si, Cu, Ni, Cr, Co, Mo, N, Ti, V, W, Al. Rows include various steel grades like BS PM15, DSZU C070, BS A-11, ECRM 288-1D, BS 37G, BS TS15, ECRM 274-1D, CT D2, BS 41A, IARM 45B, BS 41, BS A-10, IARM 251A, IARM 45A, DSZU C073, CT X27081, DSZU C072, CZ HS-2A, DSZU C077, DSZU C075, BS M-47, IMZ 102/3, DSZU C074, DSZU C071, SS 487/1, DSZU C081, CT M7, JK 49D, IARM 39B, IARM 39C, BS 36D, CT A2, SS 485/1, IARM 320A, CT O1, ECRM 290-1D, CT M10, BS 35D, IARM 304A, BS 32D, IARM 306B, SRM 1157, BS M-50, 14X I4948C, CT M2, IARM 44C, 14X 14890K, CT M1, IARM 48C, BS 30D, SS 486/1, IARM 40C, 14X HS1C, CZ HS-1A, IARM 43B, BS 40B, CZ CM-10A.

Table with columns: #, Number, C, Mn, P, S, Si, Cu, Ni, Cr, Co, Mo, N, Ti, V, W, Al. Rows include DSZU C076, SS 481/1, IARM 40B, BS 39B, SS 482/1, DSZU C078, SS 483/1, BS 38C, ECRM 179-2D, IARM 47B, DSZU C079, BS 33D, BS 33E, CT X67975, IARM 259A, BS D-6, IMZ 57/1, IARM 46B, IMZ 53/1, IMZ 56/1, BS H-19, IARM 255A, BS H-13, IMZ 58/1, IMZ 51/1, ECRM 276-2D, CT H13, ECRM 271-1D, BS 49, BS 9-4-30, IARM 341A, IMZ 196, IMZ 170, CZ CM-17A, VS LG43/1, IMZ 197, NCS HS20741, VS LG42/1, VS LG37/1, IMZ 179, IMZ 157, NCS HS20742, IMZ 177, 13X 14713A, SS 422, IMZ 101/2, SS 423, SS 424, NCS HS20743, IARM 180A, IARM 164A.

TOOL STEEL CONTINUED FROM THE PREVIOUS PAGE

| Number | Als | As | B | Ca | Nb | O | Pb | Sb | Sn | Ta | Zr | Units |
|-----------------|--------|----------|----------|------------|----------|----------|------------------------|----------|----------|------------|----------|---|
| BS PM15 | | 0.0040 | (0.0002) | (0.0001) | 0.014 | 0.0129 | (0.00001) | (0.0010) | 0.0034 | (0.0003) | (0.0005) | 38 mm Ø x 19+ mm 17025 41 mm Ø x ~7, ~12, or 19 mm last |
| BS 10V | | | | | | | | | | | | |
| DSZU C070 | | | | | | | | | | | | |
| BS A-11 Fe:79.5 | | 0.0057 | 0.0008 | (0.0002) | (0.0070) | 0.028 | (0.00006) | (0.001) | 0.0055 | | (0.001) | 38 mm Ø x ~7 or 19+ mm 17025 ~40 mm Ø x ~15 mm ~35 mm Ø x 25 mm |
| DSZU C082 | | | | | | | | | | | | |
| ECRM 288-1D | | (0.0065) | | | | | | | | | | 36-41 mm Ø x 28-35 mm |
| DSZU C080 | | | | | | | | | | | | ~35 mm Ø x 25 mm |
| BS 37G | | 0.0026 | 0.0003 | 0.0014 | 0.0026 | | 0.0005 | 0.0009 | 0.0010 | | | 34 mm Ø x ~7 or 19+ mm |
| BS TS15 * | | <0.05 | 0.0002 | <0.005 | 0.008 | 0.015 | * Provisional Analysis | 0.0007 | 0.007 | | 0.006 | 38 mm Ø x ~7 or 19+ mm 38 mm Ø x 25 mm |
| ECRM 274-1D | | (0.0013) | (0.0005) | | | (0.0026) | (0.00064) | (0.0002) | (0.0010) | | | |
| CT D2 | | | | | | | | | | | | 30-35 mm Ø x 20-25 mm |
| BS 41A | | 0.002 | | 0.0006 | | 0.002 | | | 0.002 | | | 38 mm Ø x ~7 or 19+ mm 25(pre-17025) 31 mm Ø x 2 or 18 mm |
| IARM 45B | | (0.002) | (0.0001) | (0.001) | (0.002) | (0.0005) | (0.001) | 0.008 | | | (0.001) | 42 mm Ø x 19+ mm 17025 last 31 mm Ø x 2 or 18 mm |
| BS 41 | | | | | | | | | | | | 40 mm Ø x ~7 or 19+ mm |
| BS A-10 | | | | | | | | | | | | |
| IARM 251A | | 0.016 | (0.002) | (0.0005) | 0.016 | (0.01) | (0.002) | | 0.011 | | (0.002) | 31 mm Ø x 2 or 18 mm |
| IARM 45A | | (0.003) | (0.0001) | | 0.002 | (0.0017) | (<0.005) | | 0.005 | | | ~40 mm Ø x 15 mm |
| DSZU C073 | | | | | | | | | | | | |
| CT X27081 | | | | | | | | | | | | 30-35 mm Ø x 20-25 mm last |
| DSZU C072 | | | | | | | | | | | | ~40 mm Ø x ~15 mm |
| CZ HS-2A | | | | | | | | | 0.01 | | | ~39 mm Ø x 25 mm |
| DSZU C077 | | | | | | | | | | | | ~40 mm Ø x ~15 mm |
| DSZU C075 | | | | | | | | | | | | ~40 mm Ø x ~15 mm |
| BS M-47 | | 0.006 | | (0.002) | (0.004) | 0.0037 | | | 0.006 | | | 38 mm Ø x ~7 or 19+ mm 17025 40 mm Ø x 40 mm |
| IMZ 102/3 | | | (0.0007) | | | | | | | | (0.007) | |
| DSZU C074 | | | | | | | | | | | | ~40 mm Ø x ~15 mm |
| DSZU C071 | | | | | | | | | | | | ~40 mm Ø x ~15 mm |
| SS 487/1 | | (0.012) | | | | | | | (0.006) | | | 38 mm Ø x 19 mm ~35 mm Ø x 25 mm |
| DSZU C081 | | | | | | | | | | | | 30-35 mm Ø x 20-25 mm |
| CT M7 | | | | | | | | | | | | |
| JK 49D | | | | | | | | | | | | 47 mm Ø x 15 mm |
| IARM 39B | | | | | | | | | | | | 31 mm Ø x 2 or 18 mm |
| IARM 39C | | (0.005) | 0.001 | (0.001) | 0.0040 | 0.001 | (0.0001) | (0.002) | 0.005 | | (0.002) | 31 mm Ø x 2 or 18 mm |
| BS 36D | | 0.002 | | | | | | | 0.016 | | | 38 mm Ø x ~7 or 19+ mm 30-35 mm Ø x 20-25 mm |
| CT A2 | | | | | | | | | | | | |
| SS 485/1 | | (0.022) | | | | | | | 0.019 | | | 38 mm Ø x 19 mm |
| IARM 320A * | | (0.010) | (0.0011) | | (0.012) | (0.002) | * Provisional Analysis | | 0.008 | | (0.003) | 31 mm Ø x 2 or 18 mm |
| CT O1 | | | | | | | | | | | | 30-35 mm Ø x 20-25 mm |
| ECRM 290-1D | | | | | | | | | | | | 36-41 mm Ø x 28-35 mm |
| CT M10 | | | | | | | | | | | | 30-35 mm Ø x 20-25 mm |
| BS 35D | | | | | (0.001) | | | | 0.006 | | | 38 mm Ø x ~7 or 19+ mm 17025 |
| IARM 304A | | (0.01) | 0.002 | (0.002) | 0.021 | 0.002 | | (0.001) | 0.006 | (0.002) | (0.002) | 31 mm Ø x 2 or 18 mm |
| BS 32D | | | | | | | | | | | | 38 mm Ø x ~7 or 19+ mm |
| IARM 306B | | (0.003) | (0.001) | | 0.007 | (0.001) | (0.001) | 0.0025 | 0.004 | | (0.002) | 31 mm Ø x 2 or 18 mm 32 mm Ø x 19 mm |
| SRM 1157 | | | | | | | | | | | | |
| BS M-50 | | 0.0035 | (0.0001) | (0.001) | 0.0008 | 0.0010 | (0.0001) | (0.0006) | 0.0045 | Fe:88.8 | (0.0006) | 38 mm Ø x ~7 or 19+ mm 17025 40 mm Ø x 15 mm last of stock |
| 14X 14948C | | | | | | | | | | | | 30-35 mm Ø x 20-25 mm |
| CT M2 | | | | | | | | | | | | 38 mm Ø x 19 mm |
| IARM 44C | | (0.01) | (0.002) | | 0.012 | (0.003) | (0.002) | (0.004) | 0.010 | (0.004) | | 31 mm Ø x 2 or 18 mm 40 mm Ø x 15 mm last of stock |
| 14X 14890K | | | | | | | | | | | | |
| CT M1 | | | | | | | | | | | | 30-35 mm Ø x 20-25 mm |
| IARM 48C | | 0.012 | (0.001) | | (0.005) | (0.003) | (0.0004) | (0.002) | 0.012 | (0.01) | (0.003) | 31 mm Ø x 2 or 18 mm |
| BS 30D | | 0.0128 | (0.0002) | 0.0004 | 0.0071 | 0.0019 | (0.0002) | 0.0032 | 0.0246 | (0.02) | (0.0001) | 38 mm Ø x ~7 or 19+ mm 17025 38 mm Ø x 19 mm |
| SS 486/1 | | (0.016) | | | | | | | 0.014 | | | 38 mm Ø x 19 mm |
| IARM 40C | | 0.008 | 0.0009 | (0.001) | 0.003 | 0.0013 | | | 0.008 | | (0.002) | 31 mm Ø x 2 or 18 mm |
| 14X HS1C | | | | | | | | | (0.035) | | | 40 mm Ø x 15 mm |
| CZ HS-1A | | | | | | | | | 0.02 | | | ~39 mm Ø x 25 mm |
| IARM 43B | | 0.005 | 0.0002 | | 0.004 | 0.0016 | <0.0005 | | 0.013 | | | 31 mm Ø x 2 or 18 mm |
| BS 40B | | 0.004 | 0.0006 | | | | | | 0.005 | | | 41 mm Ø x ~7 or 19+ mm |
| CZ CM-10A | | 0.03 | 0.05 | | | | | | 0.062 | | | ~39 mm Ø x 25 mm |
| Number | Als | As | B | Ca | Nb | O | Pb | Sb | Sn | Ta | Zr | Units |
| DSZU C076 | | | | | | | | | | | | ~40 mm Ø x ~15 mm |
| SS 481/1 | | | | | | | | | | | | 38 mm Ø x 19 mm last of stock |
| IARM 40B | | | (0.0010) | | 0.005 | (0.0014) | | | 0.004 | | | 31 mm Ø x 2 or 18 mm |
| BS 39B | | | | | | | | | (0.011) | | | 41 mm Ø x ~7 or 19+ mm 17025 38 mm Ø x 19 mm |
| SS 482/1 | | | | | | | | | | | | |
| DSZU C078 | | | | | | | | | | | | ~40 mm Ø x ~15 mm |
| SS 483/1 | | | | | | | | | | | | 38 mm Ø x 19 mm |
| BS 38C | | 0.011 | | | (0.002) | | 0.022 | | 0.022 | | | 38 mm Ø x ~7 or 19+ mm |
| ECRM 179-2D | | | | | | | | | | | | 30 to 35 mm Ø x 20 mm |
| IARM 47B | | | <0.001 | | (0.002) | (0.0014) | (0.0003) | | 0.008 | | | 31 mm Ø x 2 or 18 mm |
| DSZU C079 | | | | | | | | | | | | ~35 mm Ø x 25 mm |
| BS 33D | | | | | | | | | 0.005 | | | 41 mm Ø x 12 mm |
| BS 33E | | | | | | | | | | | | 38 mm Ø x 12 mm |
| CT X67975 | | | | | | | | | 0.003 | | | 30-35 mm Ø x 20-25 mm |
| IARM 259A | | 0.006 | 0.0003 | | 0.003 | 0.0014 | <0.001 | <0.0005 | 0.004 | | 0.001 | 31 mm Ø x 2 or 18 mm |
| BS D-6 | | 0.011 | (0.0003) | 0.0011 | (0.002) | (0.0008) | (0.0003) | 0.0012 | 0.0104 | Mg: 0.0002 | | 38 mm Ø x ~7 or 19 mm 17025 40 mm Ø x 40 mm |
| IMZ 57/1 | | | | | | | | | | | | 40 mm Ø x 40 mm |
| IARM 46B | | (0.01) | 0.0003 | | 0.003 | 0.002 | <0.002 | | 0.016 | | | 31 mm Ø x 2 or 18 mm |
| IMZ 53/1 | | | | | | | | | | | | 40 mm Ø x 40 mm |
| IMZ 56/1 | | | | | | | | | | | | 40 mm Ø x 40 mm |
| BS H-19 | | 0.0056 | | | 0.008 | 0.0071 | | | 0.0056 | | | 38 mm Ø x ~7 or 19+ mm 17025 31 mm Ø x 2 or 18 mm |
| IARM 255A | | (0.002) | 0.0004 | (0.0004) | 0.004 | 0.0011 | <0.001 | | 0.006 | | <0.005 | 38 mm Ø x 2 or 18 mm |
| BS H-13 | | 0.0066 | (0.0002) | (0.0003) | (0.0004) | 0.0018 | (0.0003) | 0.0020 | 0.0093 | (0.003) | (0.0014) | 38 mm Ø x ~7 or 19+ mm 17025 40 mm Ø x 40 mm |
| IMZ 587/1 | | | | | | | | | | | | 40 mm Ø x 40 mm |
| IMZ 51/1 | | | | | | | | | | | | 40 mm Ø x 40 mm |
| ECRM 276-2D | | | | | | | | | 0.0133 | | | 38 mm Ø x 25 or 30 mm |
| CT H13 | | | | | | | | | | | | 30-35 mm Ø x 20-25 mm |
| ECRM 271-1D | | 0.0057 | | 0.0009 | | 0.0020 | | | 0.0084 | | | 35 mm Ø x 25 mm |
| BS 49 | | | | | | | | | (0.004) | | | 49 mm Ø x ~7 or 19+ mm |
| BS 9-4-30 | | | | | | | | | | | | 35 mm Ø x ~7 or 19+ mm |
| IARM 341A | | (0.003) | 0.0005 | 0.0011 | (0.005) | 0.0008 | (0.001) | (0.001) | (0.005) | | (0.003) | 31 mm Ø x 2 or 18 mm |
| IMZ 196 | | | 0.065 | | 0.073 | | | | | | | 37 mm Ø x 30 mm |
| IMZ 170 | | | | | 0.087 | | | (0.002) | 0.007 | | | 40 mm Ø x 40 mm |
| CZ CM-17A | 0.0105 | 0.0060 | | | | | 0.0177 | | 0.0109 | | | ~37 mm Ø x ~25 mm |
| VS LG43/1 | | | | | | | | | | | | ~45 mm Ø x ~28 mm |
| IMZ 197 | | | (0.007) | | (0.011) | | | | 0.015 | | | 37 mm Ø x 30 mm |
| NCS HS20741 | | | | | | | | | | | | 35 mm Ø x 40 mm |
| VS LG42/1 | | | | | | | | | | | | ~45 mm Ø x ~28 mm |
| VS LG37/1 | | | | | | | | | | | | ~45 mm Ø x ~28 mm |
| IMZ 179 | | (0.007) | | | (0.004) | | | | 0.010 | | | 40 mm Ø x 40 mm |
| IMZ 157 | | | | | | | | | | | | 40 mm Ø x 40 mm |
| NCS HS20742 | | | | | | | | | | | | 35 mm Ø x 40 mm |
| IMZ 177 | | | | | | | | | 0.008 | | | 40 mm Ø x 40 mm |
| 13X 14713A | | | | Mg: 0.0016 | | | | | 0.0034 | | | ~40 mm Ø x ~15 mm |
| SS 422 | | | | | | | | | | | | 38 mm Ø x 19 mm |
| IMZ 101/2 | | | (0.0005) | | | | | | | | (0.002) | 40 mm Ø x 40 mm |
| SS 423 | | | | | | | | | | | | 38 mm Ø x 19 mm |
| SS 424 | | | | | | | | | | | | 38 mm Ø x 19 mm |
| NCS HS20743 | 0.021 | | | | | | | | | | | 35 mm Ø x 40 mm |
| IARM 180A | | (0.004) | 0.0004 | | (0.005) | 0.0006 | (0.002) | | 0.002 | | | 31 mm Ø x 2 or 18 mm |
| IARM | | | | | | | | | | | | |

ALUMINUM IN STAINLESS AND HIGH ALLOY STEEL

= Class, where 1 = CRM and 2 = RM

* Provisional Analysis

| # | Number | Al | Ni | Cr | C | Mn | P | S | Si | Cu | Co | Mo | N | Nb | Ti | V |
|---|----------------|-------|-------|-------|--------|--------|--------|---------|-------|--------|--------|--------|--------|---------|--------|--------|
| 1 | ECRM 299-1D | 5.33 | 0.172 | 22.32 | 0.0154 | 0.2678 | 0.0152 | 0.00022 | 0.299 | 0.0382 | 0.0187 | 0.0186 | 0.0198 | . | 0.1289 | 0.0329 |
| 1 | IMZ 158 | 1.56 | 0.24 | 25.51 | 0.091 | 1.34 | 0.015 | 0.007 | 2.23 | 0.097 | . | 0.025 | . | . | 0.12 | 0.078 |
| 1 | 13X PH17700A | 1.172 | 6.98 | 16.88 | 0.0732 | 0.496 | 0.0181 | 0.0008 | 0.551 | 0.146 | 0.0464 | 0.340 | 0.0192 | 0.0201 | 0.051 | 0.0390 |
| 1 | BS 192 | 1.17 | 7.11 | 16.44 | 0.074 | 0.835 | 0.025 | 0.0005 | 0.387 | 0.412 | 0.104 | 0.430 | 0.0290 | 0.168 | 0.076 | 0.124 |
| 2 | CT X92834 | 1.14 | 8.32 | 12.57 | 0.035 | 0.044 | 0.003 | 0.003 | 0.019 | 0.030 | 0.030 | 2.20 | . | 0.001 | 0.019 | <0.004 |
| 1 | 13X PH13800A | 1.075 | 8.04 | 12.53 | 0.0386 | 0.0332 | 0.0064 | 0.0030 | 0.081 | 0.0449 | 0.0220 | 2.10 | 0.0041 | . | 0.0122 | 0.0188 |
| 2 | BS 184A | 1.00 | 8.34 | 12.66 | 0.035 | 0.06 | 0.007 | 0.001 | 0.080 | 0.041 | 0.036 | 2.20 | 0.0045 | (0.006) | 0.051 | 0.014 |
| 1 | BS 192A | 0.98 | 7.01 | 16.44 | 0.066 | 0.768 | 0.021 | <0.002 | 0.300 | 0.334 | 0.114 | 0.28 | 0.029 | 0.208 | 0.083 | 0.077 |
| 1 | IARM 152C * | 0.95 | 7.29 | 16.99 | 0.072 | 0.74 | 0.024 | 0.0005 | 0.263 | 0.315 | 0.113 | 0.36 | 0.0172 | 0.012 | 0.098 | 0.072 |

| Number | As | B | Ca | O | Sn | Ta | W | Zr | Units |
|----------------|----------|----------|----------|----------|---------|---------|--------|--------|-------------------------|
| ECRM 299-1D | 0.0054 | 0.0002 | . | . | . | . | . | 0.1775 | 40 mm Ø x 25 mm |
| IMZ 158 | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| 13X PH17700A | . | 0.0033 | . | . | 0.0055 | . | 0.009 | . | ~38 mm Ø x ~15 mm |
| BS 192 | (0.005) | (0.0003) | 0.0007 | 0.0014 | 0.008 | (0.001) | 0.05 | . | 38 mm Ø x ~7 or 19+ mm |
| CT X92834 | . | 0.0009 | . | . | 0.002 | . | <0.001 | . | 30-35 mm Ø x x 20-25 mm |
| 13X PH13800A | . | . | . | . | 0.0051 | . | . | . | ~38 mm Ø x ~15 mm |
| BS 184A | . | (0.0004) | (0.0003) | (0.0003) | (0.002) | . | 0.032 | . | 38 mm Ø x ~7 or 19+ mm |
| BS 192A | (0.0035) | (0.0003) | (0.0006) | (0.0006) | 0.008 | . | 0.048 | . | 38 mm Ø x ~7 or 19+ mm |
| IARM 152C * | (0.004) | (0.003) | . | (0.001) | 0.007 | (0.01) | 0.026 | . | 31 mm Ø x 2 or 18 mm |

CRM

BORON IN STAINLESS STEEL

35 mm x 45 mm x 16 mm

| Number | B | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Mo | Ti | V | W |
|----------|------|---------|--------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| DSZU C61 | 2.14 | (0.073) | (0.38) | (0.003) | (0.005) | (0.41) | (0.09) | (0.95) | (17.8) | (0.04) | (0.24) | (0.75) | (0.19) | (0.22) |
| DSZU C60 | 1.42 | (0.058) | (0.50) | (0.002) | (0.006) | (0.35) | (0.01) | (0.51) | (11.9) | (0.11) | (0.37) | (2.70) | (0.41) | (0.20) |
| DSZU C62 | 1.15 | (0.065) | (0.31) | (0.010) | (0.024) | (0.32) | (0.24) | (0.84) | (14.4) | (0.59) | (0.16) | (3.36) | (0.18) | (0.14) |
| DSZU C63 | 1.05 | (0.070) | (0.27) | (0.014) | (0.006) | (0.30) | (0.39) | (0.48) | (11.3) | (0.25) | (0.09) | (0.70) | (0.08) | (0.10) |

CALCIUM IN STAINLESS AND HIGH ALLOY STEEL

= Class, where 1 = CRM and 2 = RM

| # | Number | Ca | Ni | Cr | C | Mn | P | S | Si | Cu | Co | Mo | N | Nb | V | W |
|---|----------------|---------|--------|--------|--------|-------|--------|--------|-------|--------|--------|--------|--------|----------|--------|----------|
| 2 | BS CA304-1 | 0.0045 | 8.57 | 18.30 | 0.045 | 1.06 | 0.026 | 0.016 | 0.71 | 0.34 | 0.20 | 0.34 | 0.083 | 0.026 | 0.09 | 0.04 |
| 1 | ECRM 379-1D | 0.0033 | 30.83 | 26.79 | 0.0121 | 1.804 | 0.0166 | 0.0006 | 0.393 | 0.984 | 0.0390 | 3.290 | 0.0550 | (0.0028) | 0.0663 | (0.0091) |
| 1 | JK 27A D | 0.0033 | 12.04 | 16.76 | 0.0477 | 1.59 | 0.022 | 0.0168 | 0.411 | 0.197 | 0.089 | 2.53 | 0.0629 | (<0.01) | 0.0041 | . |
| 2 | BS 193 | 0.0020 | 1.82 | 18.48 | 0.104 | 12.11 | 0.018 | 0.002 | 0.66 | 0.088 | 0.028 | 0.21 | 0.37 | 0.014 | 0.107 | (0.007) |
| 2 | BS SS4952 | 0.0019 | 0.23 | 13.15 | 0.347 | 0.41 | 0.016 | 0.003 | 0.66 | 0.045 | 0.030 | 0.049 | 0.027 | 0.004 | 0.089 | (0.007) |
| 2 | BS 82E | 0.0014 | 12.49 | 22.38 | 0.062 | 1.61 | 0.027 | 0.001 | 0.58 | 0.26 | 0.12 | 0.31 | 0.072 | 0.062 | 0.064 | 0.041 |
| 1 | BS 9942 | 0.0014 | 13.55 | 18.21 | 0.021 | 1.84 | 0.025 | 0.006 | 0.49 | 0.305 | 0.086 | 3.30 | 0.071 | 0.005 | 0.072 | 0.032 |
| 1 | BS 91F | 0.0012 | 0.40 | 16.34 | 0.060 | 0.762 | 0.022 | 0.0071 | 0.381 | 0.167 | 0.0174 | 0.112 | 0.0558 | 0.0120 | 0.071 | 0.0120 |
| 1 | BS 9842 | 0.0010 | 20.02 | 24.19 | 0.059 | 1.50 | 0.025 | 0.0016 | 0.99 | 0.147 | 0.237 | 0.111 | 0.037 | 0.026 | 0.075 | 0.011 |
| 1 | ECRM 272-1D | 0.00090 | 0.2445 | 11.927 | 0.2815 | 0.600 | 0.0156 | 0.0196 | 0.420 | 0.0192 | 0.0145 | 0.0030 | 0.0508 | 0.0028 | 0.0167 | . |
| 2 | BS 94C | 0.0008 | 0.43 | 25.90 | 0.057 | 0.45 | 0.024 | 0.002 | 0.62 | 0.056 | 0.042 | 0.20 | 0.065 | 0.032 | 0.12 | (0.03) |
| 2 | BS 82D | 0.0007 | 14.12 | 22.40 | 0.058 | 1.85 | 0.020 | 0.009 | 0.63 | 0.16 | 0.042 | 0.144 | 0.070 | 0.053 | 0.087 | 0.028 |
| 2 | BS 87F | 0.0007 | 10.12 | 17.30 | 0.055 | 1.64 | 0.024 | 0.025 | 0.67 | 0.28 | 0.17 | 0.29 | 0.037 | 0.57 | 0.13 | 0.050 |
| 2 | BS SS3951 | 0.0005 | 9.18 | 18.17 | 0.014 | 1.56 | 0.023 | 0.031 | 0.61 | 0.22 | 0.16 | 0.303 | 0.077 | 0.085 | 0.067 | 0.040 |

| Number | Al | As | B | O | Pb | Sb | Sn | Ti | Zn | Units |
|----------------|-----------|----------|----------|----------|------------|----------|--------|----------|--------|--|
| BS CA304-1 | 0.003 | (0.003) | 0.0006 | 0.0041 | . | (0.0020) | 0.010 | 0.028 | . | 38 mm Ø x ~5 mm last, sides not parallel |
| ECRM 379-1D | (0.00246) | (0.0018) | 0.00190 | (0.0027) | (0.000038) | 0.00057 | 0.0021 | (0.0014) | . | 38 or 45 mm Ø x 25 mm |
| JK 27A D | 0.0169 | . | 0.0018 | . | 0.00016 | . | 0.0039 | . | . | 38 mm Ø x 25 mm last |
| BS 193 | (0.003) | . | 0.0007 | (0.004) | . | . | 0.004 | 0.003 | . | 32 mm Ø x ~7 or 19+ mm |
| BS SS4952 | 0.003 | 0.002 | (0.0004) | 0.005 | . | . | 0.004 | 0.002 | . | 38 mm Ø x ~7 or 19+ mm |
| BS 82E | 0.006 | . | 0.0024 | . | . | . | 0.006 | 0.003 | . | 38 mm Ø x ~7 or 19+ mm |
| BS 9942 | 0.004 | (0.004) | 0.0014 | (0.0023) | . | . | 0.006 | (0.002) | . | 44 mm Ø x ~7 or 19+ mm |
| BS 91F | 0.0029 | . | (0.0002) | (0.0076) | . | (0.0017) | 0.0054 | 0.0018 | . | 38 mm Ø x ~7 or 19+ mm |
| BS 9842 | 0.014 | (0.002) | 0.0025 | (0.0044) | . | . | 0.005 | 0.003 | . | 38 mm Ø x ~7 or 19+ mm |
| ECRM 272-1D | 0.0046 | 0.0116 | 0.0018 | . | . | 0.0007 | . | 0.00096 | 0.0031 | 38 mm Ø x 25 or 30 mm |
| BS 94C | 0.004 | . | (0.0005) | 0.0061 | . | . | 0.006 | . | . | 44 mm Ø x ~7 or 19+ mm |
| BS 82D | (0.002) | . | 0.0040 | 0.007 | . | . | 0.004 | 0.005 | . | 38 mm Ø x ~7, 11 or ~15 mm last |
| BS 87F | 0.004 | 0.005 | (0.0006) | 0.005 | . | . | 0.004 | 0.004 | . | 41 mm Ø x ~7 or 19+ mm |
| BS SS3951 | 0.002 | . | (0.0006) | 0.0075 | . | . | 0.007 | (0.002) | . | 41 mm Ø x ~7 or 19+ mm |

MARAGING STEEL AND COBALT IN STAINLESS AND HIGH ALLOY STEEL

= Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

| # | Number | Co | Mo | Ni | Cr | C | Mn | P | S | Si | Cu | Al | B | N | Nb | Ti |
|---|-------------|-------|---------|-------|---------|---------|--------|---------|---------|--------|---------|---------|----------|---------|---------|---------|
| 1 | IARM 326A | 48.4 | (0.002) | 0.037 | (0.002) | (0.002) | 0.003 | 0.0013 | 0.0011 | 0.029 | (0.002) | (0.003) | (0.001) | 0.0004 | 0.038 | (0.002) |
| 2 | CT ISO070A | 29.00 | 0.006 | 24.47 | 5.54 | 0.014 | 0.015 | 0.003 | <0.001 | 0.32 | 0.010 | 0.47 | 0.0038 | . | 4.63 | 0.82 |
| 1 | IMZ 521 | 20.25 | 4.84 | 8.63 | 0.040 | 0.015 | 0.039 | 0.0031 | 0.0058 | 0.072 | 0.027 | . | . | 0.0113 | . | . |
| 1 | IMZ 522 | 18.72 | 6.45 | 11.47 | 0.022 | 0.0088 | 0.032 | (0.003) | 0.0043 | 0.048 | 0.019 | . | . | 0.0045 | (0.008) | 0.54 |
| 1 | IMZ 520 | 17.66 | 4.92 | 10.10 | 0.242 | 0.011 | 0.070 | 0.0043 | 0.019 | 0.094 | 0.080 | . | (0.001) | 0.0105 | (0.008) | (0.007) |
| 1 | IARM 98B | 17.0 | 0.010 | 29.4 | 0.012 | 0.007 | 0.18 | 0.002 | 0.0007 | 0.17 | 0.028 | 0.07 | 0.001 | 0.0024 | 0.002 | 0.03 |
| 1 | IMZ 523 | 14.44 | 6.67 | 15.94 | 0.048 | 0.0098 | 0.051 | (0.004) | 0.0039 | 0.043 | 0.059 | . | . | 0.0037 | (0.008) | 0.70 |
| 1 | IARM 242A | 13.5 | 1.21 | 11.1 | 3.00 | 0.24 | 0.018 | 0.002 | 0.0004 | 0.02 | 0.007 | 0.004 | (0.0005) | 0.0003 | 0.004 | 0.009 |
| 2 | CT ISO045A | 13.39 | 1.18 | 11.38 | 3.12 | 0.228 | 0.002 | 0.001 | 0.0004 | <0.010 | 0.006 | 0.004 | . | . | . | 0.005 |
| 1 | IARM 309A | 12.3 | 4.71 | 18.4 | 0.053 | 0.0059 | 0.018 | 0.004 | 0.0006 | 0.020 | 0.023 | 0.11 | 0.0032 | 0.0010 | 0.004 | 1.47 |
| 1 | IMZ 524 | 12.25 | 4.95 | 13.75 | 0.085 | 0.012 | 0.68 | (0.004) | 0.004 | 0.13 | 0.024 | . | . | 0.0038 | (0.007) | 0.85 |
| 1 | DSZU C093 | 12.08 | 3.79 | 15.80 | 0.42 | 0.013 | 0.32 | (0.006) | (0.007) | (0.10) | (0.12) | 0.17 | . | . | . | 1.56 |
| 1 | IARM 99B | 9.24 | 4.88 | 18.46 | 0.081 | 0.005 | 0.036 | 0.005 | 0.0005 | 0.022 | 0.094 | 0.095 | 0.0026 | 0.0011 | (0.005) | 0.74 |
| 1 | BS 161A | 9.22 | 4.82 | 18.40 | 0.12 | 0.004 | 0.031 | 0.004 | 0.0007 | 0.032 | 0.22 | 0.14 | 0.0023 | (0.002) | (0.004) | 0.65 |
| 2 | CT 300 | 9.07 | 4.97 | 18.51 | 0.034 | 0.005 | 0.032 | 0.005 | 0.004 | 0.030 | 0.047 | 0.12 | 0.0020 | . | . | 0.69 |
| 1 | 13X 14934Q | 9.03 | 4.22 | 17.60 | 0.388 | 0.0254 | 0.254 | 0.024 | 0.0288 | 0.502 | . | 0.15 | . | 0.0132 | . | 0.694 |
| 1 | DSZU C091 | 8.07 | 4.98 | 18.20 | 0.12 | 0.035 | 0.092 | (0.006) | (0.011) | (0.09) | (0.12) | 0.05 | . | . | . | 0.81 |
| 1 | IARM 308A | 7.80 | 4.78 | 18.53 | 0.023 | 0.003 | 0.019 | 0.004 | 0.0005 | 0.014 | 0.018 | 0.097 | 0.0029 | 0.0013 | 0.003 | 0.46 |
| 1 | ECRM 285-2D | 7.76 | 4.99 | 18.07 | 0.0236 | 0.0018 | 0.0168 | 0.0053 | 0.0025 | 0.0117 | 0.0094 | 0.1067 | 0.0009 | 0.0007 | . | 0.520 |
| 2 | CT 250 | 7.54 | 4.88 | 18.44 | 0.008 | 0.002 | 0.006 | 0.003 | 0.002 | 0.008 | 0.008 | 0.058 | 0.0024 | . | . | 0.41 |
| 1 | 13X 14935T | 7.17 | 5.61 | 18.96 | 0.745 | 0.0105 | 0.494 | 0.036 | 0.055 | 0.441 | . | (0.007) | . | 0.0102 | . | 0.106 |
| 3 | DSZU C55 | 6.5 | 1.25 | 2.34 | 14.1 | 0.23 | 0.69 | 0.033 | 0.023 | 0.70 | . | . | . | 0.11 | 0.29 | . |
| 3 | DSZU C53 | 5.9 | 1.88 | 0.96 | 15.0 | 0.10 | 0.54 | 0.050 | 0.031 | 0.25 | . | . | . | . | 0.12 | . |
| 3 | DSZU C54 | 5.3 | 1.45 | 1.95 | 18.4 | 0.07 | 0.55 | 0.040 | 0.020 | 0.54 | . | . | . | 0.13 | 0.41 | . |
| 1 | DSZU C092 | 5.21 | 5.50 | 20.12 | 0.23 | 0.015 | 0.27 | (0.006) | (0.009) | (0.10) | (0.16) | (0.006) | . | . | . | (0.008) |
| 3 | DSZU C51 | 4.7 | 0.72 | 1.78 | 11.0 | 0.20 | 0.40 | 0.017 | 0.036 | 0.24 | . | . | . | 0.090 | 0.12 | . |
| 3 | DSZU C52 | 3.8 | 1.17 | 1.55 | 11.6 | 0.14 | 0.37 | 0.020 | 0.028 | 0.17 | . | . | . | . | 0.31 | . |
| 2 | BS 85D | 0.97 | 0.59 | 10.03 | 17.09 | 0.049 | 1.69 | 0.025 | 0.024 | 0.55 | 0.45 | 0.13 | 0.0006 | 0.016 | 0.065 | 0.48 |

| Number | As | Ca | Fe | Mg | O | Sb | Sn | Ta | V | W | Zr | Units |
|-------------|---------|----------|----------------|---------|----------|-------|----------|---------|---------|---------|---------|------------------------|
| IARM 326A | <0.005 | . | 49.6 | (0.001) | 0.0082 | . | <0.001 | (0.01) | 1.94 | (0.001) | 0.002 | 31 mm Ø x 2 or 18 mm |
| CT ISO070A | . | . | 34.66 | . | . | . | . | <0.01 | 0.043 | <0.01 | . | 30-35 mm Ø x 20-25 mm |
| IMZ 521 | . | . | . | . | . | . | . | (0.002) | 3.97 | 5.23 | . | 38 mm Ø x 20 mm |
| IMZ 522 | . | . | . | . | . | . | . | (0.001) | 2.21 | 2.25 | . | 38 mm Ø x 20 mm |
| IMZ 520 | . | . | . | . | . | . | . | (0.002) | 4.03 | 4.90 | . | 38 mm Ø x 20 mm |
| IARM 98B | <0.002 | <0.0005 | 52.9 | 0.0040 | 0.0021 | . | 0.002 | <0.05 | (0.003) | (0.02) | <0.01 | 31 mm Ø x 2 or 18 mm |
| IMZ 523 | . | . | . | . | . | . | . | (0.001) | 2.01 | 1.87 | . | 38 mm Ø x 20 mm |
| IARM 242A | . | . | . | . | 0.0006 | . | . | (0.001) | 0.008 | 0.01 | <0.01 | 31 mm Ø x 2 or 18 mm |
| CT ISO045A | . | . | 70.70 | . | . | . | . | . | . | . | . | 30-35 mm Ø x 20-25 mm |
| IARM 309A | . | . | . | . | 0.0005 | . | (0.001) | (0.006) | 0.01 | 0.01 | 0.008 | 31 mm Ø x 2 or 18 mm |
| IMZ 524 | (0.003) | . | . | . | . | . | . | . | 3.02 | 1.84 | . | 38 mm Ø x 20 mm |
| DSZU C093 | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x 17 mm |
| IARM 99B | . | . | . | . | 0.0015 | . | (0.003) | . | 0.012 | 0.016 | . | 31 mm Ø x 2 mm |
| BS 161A | (0.002) | (0.0008) | 25 (pre-17025) | . | (0.0004) | . | (0.0015) | (0.03) | 0.031 | (0.008) | (0.002) | 38 mm Ø x ~7 or 19+ mm |
| CT 300 | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 20-25 mm |
| 13X 14934Q | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| DSZU C091 | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x 17 mm |
| IARM 308A | . | . | . | . | 0.0005 | . | 0.001 | <0.01 | 0.01 | 0.01 | 0.01 | 31 mm Ø x 2 or 18 mm |
| ECRM 285-2D | . | . | . | . | . | . | . | . | . | . | 0.0050 | 38 mm Ø x 25 or 30 mm |
| CT 250 | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 20-25 mm |
| 13X 14935T | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| DSZU C55 | . | . | . | . | . | . | . | . | 0.16 | 1.1 | . | 42 mm Ø x 25 mm |
| DSZU C53 | . | . | . | . | . | . | . | . | 0.25 | 0.58 | . | 42 mm Ø x 25 mm |
| DSZU C54 | . | . | . | . | . | . | . | . | 0.40 | 0.62 | . | 42 mm Ø x 25 mm |
| DSZU C092 | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x 17 mm |
| DSZU C51 | . | . | . | . | . | . | . | . | 0.08 | 0.32 | . | 42 mm Ø x 25 mm |
| DSZU C52 | . | . | . | . | . | . | . | . | 0.03 | 0.95 | . | 42 mm Ø x 25 mm |
| BS 85D | 0.006 | 0.0004 | . | . | 0.0014 | 0.001 | (0.006) | . | 0.134 | 0.06 | . | 38 mm Ø x ~7 or 19+ mm |

TUNGSTEN IN STAINLESS AND HIGH ALLOY STEEL

= Class, where 1 = CRM and 2 = RM

| # | Number | W | Ni | Cr | C | Mn | P | S | Si | Cu | Co | Mo | N | Nb | Ti | V |
|---|--------------|------|-------|-------|--------|-------|--------|--------|-------|--------|--------|--------|--------|--------|---------|--------|
| 1 | VS LG57 | 4.24 | 25.2 | 13.70 | 0.016 | 0.52 | 0.011 | 0.0023 | 0.56 | 0.080 | . | 0.401 | . | . | 1.81 | 0.65 |
| 1 | 13X 14219K | 4.17 | 12.66 | 21.46 | 0.0997 | 0.482 | 0.0401 | 0.0456 | 1.504 | 0.138 | 0.0475 | 0.169 | . | 0.140 | . | 0.0188 |
| 1 | 13X 14212S * | 3.72 | 8.76 | 21.8 | 0.12 | 0.15 | 0.034 | 0.037 | 2.5 | 0.6 | 0.11 | 0.52 | 0.007 | 0.56 | . | 0.12 |
| 1 | IARM 20B | 3.52 | 1.94 | 12.42 | 0.18 | 0.35 | 0.019 | 0.004 | 0.40 | 0.069 | 0.030 | 0.32 | 0.0434 | 0.010 | 0.004 | 0.17 |
| 1 | 13X 14211Q | 3.24 | 12.55 | 25.70 | 0.064 | 0.766 | 0.0157 | 0.0146 | 1.64 | 0.161 | 0.071 | 0.325 | . | 0.161 | 0.220 | . |
| 1 | 13X 14207K | 3.17 | 12.64 | 19.85 | 0.146 | 0.900 | 0.021 | 0.051 | 1.525 | 0.247 | 0.031 | 0.300 | 0.095 | 0.246 | . | . |
| 1 | VS LG59 | 3.08 | 35.1 | 15.81 | 0.073 | 1.15 | 0.011 | 0.0083 | 0.63 | 0.083 | . | 0.094 | . | 0.106 | 1.12 | 0.273 |
| 1 | 113X 14215L | 3.02 | 15.86 | 22.89 | 0.136 | 1.110 | 0.0050 | 0.0068 | 0.596 | 0.0110 | 0.0057 | 0.0048 | . | 0.0196 | . | 0.0480 |
| 2 | BS 183A | 2.60 | 1.85 | 12.14 | 0.172 | 0.35 | 0.016 | 0.0040 | 0.37 | 0.093 | 0.036 | 0.12 | 0.0256 | 0.006 | 0.002 | 0.090 |
| 1 | IARM 20C | 2.59 | 1.93 | 12.15 | 0.18 | 0.30 | 0.018 | 0.007 | 0.35 | 0.060 | 0.031 | 0.12 | 0.0222 | 0.010 | (0.003) | 0.086 |
| 1 | VS LG61 | 1.11 | 9.18 | 18.8 | 0.307 | 1.51 | 0.0133 | 0.0107 | 0.83 | 0.065 | . | 1.05 | . | 0.47 | 0.40 | 0.197 |
| 1 | IMZ 161 | 1.05 | 0.55 | 12.90 | 0.074 | 0.29 | 0.023 | 0.023 | 0.65 | 0.56 | . | 1.10 | . | . | . | 0.33 |

| Number | Al | As | B | Ca | O | Sb | Sn | Units |
|--------------|------------------------|---------|-----------|--------|--------|---------|-------|------------------------|
| VS LG57 | 0.151 | . | . | . | . | . | . | ~47 mm Ø x ~30 mm |
| 13X 14219K | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| 13X 14212S * | * Provisional Analysis | | | | | | | ~40 mm Ø x ~15 mm |
| IARM 20B | 0.006 | . | . | . | 0.0056 | . | 0.005 | 31 mm Ø x 2 mm |
| 13X 14211Q | (0.11) | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| 13X 14207K | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| VS LG59 | 0.079 | . | . | . | . | . | . | ~47 mm Ø x ~30 mm |
| 13X 14215L | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| BS 183A | 0.002 | (0.002) | (<0.0005) | 0.0020 | 0.0065 | (0.001) | 0.003 | 38 mm Ø x ~7 or 19+ mm |
| IARM 20C | (0.004) | . | . | . | 0.0068 | . | 0.004 | 31 mm Ø x 2 or 18 mm |
| VS LG61 | 0.033 | . | . | . | . | . | . | ~47 mm Ø x ~30 mm |
| IMZ 161 | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |

MANGANESE STAINLESS STEEL

= Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

* Provisional Analysis

| # Number | Mn | Ni | Cr | C | P | S | Si | Cu | Mo | Al | Co | N | Nb | V | W |
|---------------|-------|-------|-------|--------|---------|---------|-------|--------|---------|----------|--------|--------|-----------|--------|-----------|
| 1 IARM 294A | 21.6 | 2.9 | 19.7 | 0.017 | 0.026 | 0.0028 | 0.43 | 0.34 | 1.8 | (0.01) | 0.021 | 0.78 | (0.03) | 0.046 | (0.01) |
| 1 IARM 295A | 19.7 | 1.84 | 18.0 | 0.021 | 0.028 | 0.0041 | 0.36 | 0.113 | 0.97 | (0.01) | 0.021 | 0.62 | 0.018 | 0.046 | 0.016 |
| 1 ECRM 294-1D | 18.68 | 0.429 | 17.98 | 0.0657 | 0.0271 | 0.00031 | 0.283 | 0.0242 | 0.0861 | (0.0095) | 0.0288 | 0.566 | (0.00117) | 0.0694 | (0.00114) |
| 1 IARM 214A | 18.3 | 2.33 | 12.36 | 0.018 | 0.033 | 0.002 | 1.00 | 0.36 | 0.44 | (0.002) | 0.021 | 0.27 | 0.23 | 0.04 | 0.02 |
| 1 VS RG20/1 | 15.77 | 0.673 | 14.35 | 0.064 | (0.02) | (0.01) | 0.81 | 0.265 | 0.089 | . | . | . | 0.175 | 0.166 | 0.007 |
| 1 VS RG22/1 | 13.41 | 3.94 | 13.25 | 0.054 | (0.02) | (0.008) | 0.63 | 0.358 | 0.121 | . | . | . | 0.38 | 0.125 | 0.137 |
| 2 BS 193 | 12.11 | 1.82 | 18.48 | 0.104 | 0.018 | 0.002 | 0.66 | 0.088 | 0.21 | (0.003) | 0.028 | 0.37 | 0.014 | 0.107 | (0.007) |
| 2 CT ISO035A | 12.04 | 1.81 | 18.48 | 0.102 | 0.023 | 0.002 | 0.59 | 0.17 | 0.28 | <0.004 | 0.037 | 0.33 | 0.004 | 0.058 | 0.002 |
| 1 13X NSC3Z | 10.15 | 2.96 | 23.02 | 0.895 | . | 0.0110 | 1.28 | 0.100 | 0.060 | 0.105 | . | 0.498 | 2.81 | 0.110 | . |
| 1 13X NSC3Y | 9.98 | 3.11 | 23.43 | 0.830 | . | 0.0102 | 1.32 | 0.08 | 0.071 | 0.050 | . | 0.54 | 2.29 | 0.131 | . |
| 2 BS 190 | 9.72 | 6.74 | 19.57 | 0.022 | 0.015 | 0.001 | 0.46 | 0.072 | 0.15 | (0.004) | 0.044 | 0.255 | (0.004) | 0.11 | 0.015 |
| 2 CT ISO129A | 9.31 | 6.86 | 19.62 | 0.030 | 0.002 | <0.001 | 0.40 | 0.152 | 0.25 | 0.014 | 0.102 | 0.264 | 0.025 | 0.144 | 0.03 |
| 1 IARM 19C * | 9.02 | 6.40 | 19.51 | 0.012 | 0.027 | 0.0007 | 0.31 | 0.45 | 0.40 | 0.007 | 0.087 | 0.32 | 0.028 | 0.090 | 0.037 |
| 1 13X NSC6A | 8.85 | 6.52 | 20.47 | 0.0266 | 0.0049 | 0.0055 | 0.523 | 0.0064 | (0.002) | (0.009) | . | 0.235 | . | 0.0052 | . |
| 1 VS RG23/1 | 8.74 | 1.98 | 18.5 | 0.045 | (0.02) | (0.004) | 0.49 | 0.099 | 0.401 | . | . | . | 0.24 | 0.69 | 0.3 |
| 1 13X NSC2P | 8.70 | 4.20 | 21.98 | 0.560 | . | 0.0117 | 0.997 | 1.026 | 0.850 | . | . | 0.341 | 2.21 | 0.321 | 0.062 |
| 2 BS 181A | 8.16 | 8.15 | 16.52 | 0.071 | 0.019 | 0.001 | 4.03 | 0.18 | 0.21 | 0.022 | 0.072 | 0.148 | 0.017 | 0.094 | 0.04 |
| 1 BS 181B | 8.07 | 8.18 | 16.17 | 0.070 | 0.021 | 0.0009 | 3.94 | 0.206 | 0.173 | 0.0119 | 0.044 | 0.158 | 0.026 | 0.044 | 0.016 |
| 1 13X 21800A | 8.00 | 8.32 | 16.81 | 0.0765 | 0.032 | 0.0011 | 4.03 | 0.431 | 0.325 | 0.012 | 0.0943 | 0.125 | 0.007 | 0.0619 | . |
| 1 13X NSC4F | 7.97 | 7.03 | 32.58 | 0.513 | . | 0.0071 | 1.52 | 0.162 | 1.390 | 0.119 | 0.218 | 0.942 | 2.41 | 0.219 | 0.204 |
| 1 SRM 1297 | 7.11 | 5.34 | 16.69 | 0.066 | 0.038 | 0.0033 | 0.397 | 0.442 | 0.331 | . | 0.127 | . | . | 0.080 | . |
| 1 13X NSC1P | 6.53 | 5.06 | 18.76 | 0.316 | . | 0.0097 | 0.788 | 0.391 | 0.196 | . | . | 0.0877 | 1.499 | 0.501 | 0.100 |
| 1 VS RG21/1 | 6.39 | 7.52 | 15.53 | 0.169 | (0.02) | (0.008) | 1.95 | 0.17 | 0.88 | . | . | . | 0.48 | 1.71 | (0.2) |
| 3 CZ SL-5A | 5.8 | 4.94 | 11.7 | 0.37 | 0.021 | 0.014 | 0.36 | 2.90 | 4.12 | 0.035 | 0.26 | . | 0.20 | 0.21 | 0.78 |
| 2 BS 191 | 5.71 | 5.34 | 16.33 | 0.098 | 0.024 | 0.023 | 3.73 | 0.33 | 0.36 | (0.002) | 0.11 | 0.117 | 0.024 | 0.083 | 0.033 |
| 1 VS RG19/1 | 5.63 | 17.73 | 24.5 | 0.064 | (0.02) | (0.009) | 0.90 | (0.2) | 0.166 | . | . | . | 0.108 | 0.407 | 0.206 |
| 1 13X NSA4B | 5.55 | 17.62 | 23.85 | 0.115 | 0.0302 | 0.0095 | 0.519 | 0.595 | 4.32 | 0.0048 | . | 0.446 | 0.154 | . | . |
| 1 13X NSA10A | 5.23 | 12.98 | 20.67 | 0.0180 | 0.0206 | 0.0007 | 0.375 | 0.170 | 2.636 | . | 0.060 | 0.342 | 0.143 | 0.151 | (0.061) |
| 2 BS 180A | 5.05 | 13.19 | 21.09 | 0.018 | 0.012 | 0.001 | 0.32 | 0.067 | 2.04 | 0.012 | 0.039 | 0.334 | 0.20 | 0.20 | 0.02 |
| 1 IARM 292A | 5.0 | 1.47 | 21.35 | 0.030 | 0.018 | 0.001 | 0.75 | 0.29 | 0.097 | 0.010 | 0.031 | 0.245 | 0.009 | 0.084 | 0.01 |
| 1 BS 180B | 4.65 | 11.9 | 21.5 | 0.022 | 0.017 | 0.0008 | 0.46 | 0.201 | 2.20 | (0.007) | 0.111 | 0.315 | 0.131 | 0.149 | 0.050 |
| 1 13X NSA5A | 4.27 | 9.52 | 20.73 | 0.063 | (0.010) | 0.0212 | 0.281 | 0.098 | 2.32 | (0.012) | . | 0.340 | 0.574 | . | . |
| 1 IARM 17D | 4.15 | 11.83 | 21.06 | 0.041 | 0.026 | 0.0018 | 0.416 | 0.412 | 1.52 | 0.0032 | 0.23 | 0.311 | 0.14 | 0.118 | 0.056 |
| 1 13X NSC7A | 3.80 | 7.41 | 23.63 | 0.410 | 0.0155 | 0.0091 | 0.803 | 0.144 | 0.448 | (0.096) | 0.308 | 0.337 | 0.509 | 0.123 | 0.052 |
| 1 13X NSC5B | 2.22 | 4.34 | 22.10 | 0.558 | . | 0.0155 | 1.19 | 0.787 | (0.009) | 0.21 | . | 0.296 | 2.38 | 0.0461 | . |

| Number | As | B | Ca | O | Pb | Sb | Sn | Ta | Te | Ti | Zr | Units |
|-------------|---------|------------|-----------|-----------|------------|-----------|----------|---------|------------|----------|----------|------------------------|
| IARM 294A | . | (0.003) | . | (0.003) | . | . | (0.006) | (0.003) | . | (0.002) | (0.002) | 31 mm Ø x 2 or 18 mm |
| IARM 295A | . | 0.002 | . | (0.003) | . | . | 0.004 | . | . | 0.0019 | (0.001) | 31 mm Ø x 2 or 18 mm |
| ECRM 294-1D | 0.0037 | (<0.00005) | (0.00026) | . | (0.000128) | (0.00053) | (0.0014) | . | (<0.00008) | (0.0008) | (0.0001) | 40 mm Ø x 20 mm |
| IARM 214A | . | (0.001) | . | 0.0026 | . | . | 0.008 | . | . | 0.002 | . | 31 mm Ø x 2 or 18 mm |
| VS RG20/1 | . | . | . | . | . | . | . | . | . | 0.093 | . | ~45 mm Ø x ~30 mm |
| VS RG22/1 | . | . | . | . | . | . | . | . | . | 0.33 | . | ~45 mm Ø x ~30 mm |
| BS 193 | . | 0.0007 | 0.0020 | (0.004) | . | . | 0.004 | . | . | 0.003 | . | 32 mm Ø x ~7 or 19+ mm |
| CT ISO035A | . | Fe: 65.91 | . | (<0.0001) | . | . | 0.003 | . | . | 0.001 | <0.001 | 30-35 mm Ø x 20-25 mm |
| 13X NSC3Z | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| 13X NSC3Y | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm last |
| BS 190 | . | 0.0005 | . | 0.0045 | . | . | 0.003 | . | . | 0.002 | . | 38 mm Ø x ~7 or 19+ mm |
| CT ISO129A | . | Fe: 62.62 | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 20-25 mm |
| IARM 19C * | (0.004) | 0.0011 | . | 0.003 | . | . | 0.0061 | 0.005 | . | 0.003 | . | 31 mm Ø x 2 or 18 mm |
| 13X NSC6A | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 13 mm HIP |
| VS RG23/1 | . | . | . | . | . | . | . | . | . | 0.21 | . | ~45 mm Ø x ~30 mm |
| 13X NSC2P | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| BS 181A | . | 0.0009 | . | 0.0010 | . | . | 0.005 | . | . | 0.007 | . | 38 mm Ø x ~7 or 19+ mm |
| BS 181B | (0.002) | (0.0008) | (0.001) | 0.0010 | (0.0005) | (0.0007) | (0.004) | Fe:62.9 | 17025 | 0.0051 | (0.0004) | 38 mm Ø x ~7 or 19+ mm |
| 13X 21800A | . | (0.001) | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~15 mm |
| 13X NSC4F | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| SRM 1297 | . | . | . | . | . | . | . | . | . | . | . | 32 mm Ø x 19 mm |
| 13X NSC1P | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| VS RG21/1 | . | . | . | . | . | . | . | . | . | 0.18 | . | ~45 mm Ø x ~30 mm |
| CZ SL-5A | 0.005 | . | . | . | . | . | 0.004 | 0.07 | . | 0.004 | . | ~39 mm Ø x 25 mm |
| BS 191 | . | (0.0006) | . | 0.002 | . | . | (0.006) | 0.002 | . | 0.012 | . | 38 mm Ø x ~7 or 19+ mm |
| VS RG19/1 | . | . | . | . | . | . | . | . | . | 0.14 | . | ~45 mm Ø x ~30 mm |
| 13X NSA4B | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| 13X NSA10A | . | 0.0031 | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~15 mm |
| BS 180A | . | (0.0023) | . | 0.003 | . | . | (0.002) | . | . | (0.002) | . | 37 mm Ø x ~7 or 19+ mm |
| IARM 292A | . | 0.0011 | . | 0.0024 | . | . | 0.004 | (0.006) | . | 0.005 | . | 31 mm Ø x 2 or 18 mm |
| BS 180B | (0.004) | 0.0011 | 0.0009 | 0.0043 | 17025 | (0.0007) | 0.0040 | (0.003) | Fe:58.5 | (0.005) | (0.0009) | 38 mm Ø x ~7 or 19+ mm |
| 13X NSA5A | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~14 mm |
| IARM 17D | 0.005 | 0.001 | (0.002) | 0.003 | (0.0002) | (0.001) | 0.0044 | (0.003) | . | 0.010 | (0.002) | 31 mm Ø x 2 or 18 mm |
| 13X NSC7A | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~13 mm |
| 13X NSC5B | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |

CRM NICKEL BINARIES

analysis listed in mass %

~40 mm Ø x ~15 mm

| Number | Ni | C | Mn | P | S | Si | Cu | Cr | Al | Co | N | Mg | Mo | Nb | Ti | W |
|-------------|-------|--------|--------|--------|--------|-------|--------|--------|-------|--------|--------|--------|--------|--------|--------|--------|
| 14X FeNi50B | 50.09 | 0.0488 | 0.115 | 0.0259 | 0.243 | 0.203 | 0.105 | 0.093 | 0.052 | 0.499 | . | . | . | . | . | last |
| 14X FeNi45B | 45.20 | 0.0045 | 0.0149 | 0.0416 | 0.038 | 0.567 | 0.078 | 0.048 | 0.552 | 0.654 | . | . | . | . | . | . |
| 14X 94100A | 41.00 | 0.0055 | 0.443 | 0.0051 | 0.0027 | 0.103 | 0.0628 | 0.0265 | . | 0.0208 | 0.0016 | 0.0021 | 0.0053 | (0.01) | 0.0011 | 0.0017 |
| 14X FeNi35C | 34.52 | 0.082 | 0.174 | 0.030 | 0.140 | 0.309 | 0.355 | 0.1006 | 0.004 | 0.343 | . | . | . | . | . | . |
| 14X FeNi25B | 25.10 | 0.0084 | 0.0121 | 0.011 | 0.58 | 0.019 | 0.035 | 0.0334 | 0.103 | 0.746 | . | . | . | . | . | . |
| 14X FeNi20B | 20.06 | 0.0137 | 0.0284 | 0.010 | 0.0089 | 1.12 | 0.074 | 0.102 | 0.018 | 0.994 | . | . | . | . | . | . |
| 14X FeNi10A | 10.12 | 0.095 | 0.272 | 0.015 | 0.027 | 0.061 | 0.029 | 0.070 | 0.025 | . | 0.0055 | . | . | . | . | . |
| 14X FeNi8A | 8.10 | 0.097 | 0.330 | 0.015 | 0.029 | 0.097 | 0.030 | 0.250 | 0.029 | . | 0.0061 | . | . | . | . | . |
| 14X FeNi6A | 6.08 | 0.100 | 0.330 | 0.0155 | 0.028 | 0.075 | 0.028 | 0.073 | 0.025 | . | 0.0055 | . | . | . | . | . |

SULFUR AND PHOSPHORUS IN STAINLESS AND HIGH ALLOY STEEL

= Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

| # | Number | S | P | Ni | Cr | C | Mn | Si | Cu | Al | Co | Mo | N | Nb | Ti | V |
|---|---------------|--------|--------|-------|-------|-------|-------|-------|-------|---------|--------|-------|--------|--------|---------|--------|
| 2 | CT 416 | 0.36 | 0.018 | 0.24 | 13.15 | 0.088 | 0.52 | 0.63 | 0.004 | . | 0.019 | 0.065 | 0.020 | . | . | 0.025 |
| 1 | IARM 1D | 0.34 | 0.025 | 9.50 | 18.24 | 0.061 | 1.98 | 0.22 | 0.51 | . | 0.208 | 0.130 | 0.027 | <0.005 | (0.002) | 0.101 |
| 2 | BS 150 | 0.33 | 0.020 | 0.19 | 18.61 | 0.048 | 1.71 | 0.43 | 0.042 | 0.002 | 0.024 | 1.97 | 0.029 | 0.003 | . | 0.054 |
| 1 | SRM 1223 | 0.329 | 0.018 | 0.232 | 12.64 | 0.127 | 1.08 | 0.327 | 0.081 | . | . | 0.053 | . | . | . | 0.068 |
| 2 | BS 90F | 0.328 | 0.023 | 0.30 | 13.01 | 0.085 | 0.53 | 0.58 | 0.12 | (0.006) | 0.021 | 0.14 | 0.037 | 0.011 | . | 0.076 |
| 1 | BS 303 | 0.326 | 0.028 | 8.17 | 17.23 | 0.044 | 1.80 | 0.415 | 0.627 | 0.0019 | 0.071 | 0.410 | 0.023 | 0.008 | 0.017 | 0.056 |
| 1 | 13X 30300A | 0.312 | 0.0205 | 8.60 | 17.62 | 0.041 | 1.83 | 0.422 | 0.025 | . | 0.0255 | 0.334 | 0.034 | . | . | 0.091 |
| 2 | CT 303 | 0.31 | 0.029 | 9.08 | 17.78 | 0.070 | 1.64 | 0.58 | 0.49 | . | 0.16 | 0.41 | . | . | . | 0.044 |
| 2 | BS 154 | 0.302 | 0.027 | 0.25 | 17.58 | 0.030 | 0.40 | 1.26 | 0.063 | (0.002) | 0.019 | 0.31 | 0.039 | 0.005 | . | 0.046 |
| 2 | 13X 12549K | 0.29 | 0.092 | 1.26 | 11.70 | 0.16 | 0.34 | 0.43 | 0.10 | . | 0.52 | 1.49 | . | 0.23 | . | . |
| 2 | BS 153 | 0.280 | 0.018 | 0.140 | 17.38 | 0.026 | 0.41 | 0.53 | 0.052 | 0.002 | 0.017 | 0.30 | 0.021 | 0.002 | (0.004) | 0.045 |
| 2 | BS 152 | 0.275 | 0.022 | 0.14 | 13.41 | 0.320 | 0.36 | 0.44 | 0.050 | (0.002) | 0.015 | 0.061 | 0.020 | 0.006 | . | 0.051 |
| 3 | CZ SP-1A | 0.26 | 0.024 | 8.6 | 17.7 | 0.047 | 1.87 | 0.33 | 0.52 | 0.004 | 0.095 | 0.42 | . | 0.012 | 0.02 | 0.058 |
| 1 | 13X 12548M | 0.219 | 0.027 | 1.075 | 12.96 | 0.188 | 0.577 | 0.425 | 0.230 | . | 0.353 | 1.318 | 0.0500 | 0.586 | . | . |
| 1 | 13X 43020A * | 0.19 | 0.025 | 0.52 | 16.0 | 0.15 | 1.45 | 0.45 | 0.07 | 0.005 | 0.02 | 0.23 | 0.022 | 0.01 | . | 0.055 |
| 1 | IMZ 154 | 0.16 | 0.040 | 9.86 | 17.71 | 0.076 | 2.18 | 0.89 | 0.33 | (0.16) | 0.105 | 2.58 | . | . | 1.00 | 0.073 |
| 2 | BS 155 | 0.145 | 0.014 | 0.13 | 16.64 | 1.00 | 0.35 | 0.40 | 0.035 | (0.001) | 0.019 | 0.46 | 0.032 | 0.002 | . | 0.10 |
| 1 | 13X 12536S | 0.136 | 0.052 | 12.07 | 15.30 | 0.149 | 0.406 | 0.865 | 0.065 | 0.049 | 0.298 | 2.54 | 0.062 | . | 0.105 | . |
| 1 | 13X 8110L | 0.068 | 0.052 | 4.62 | 12.30 | 0.750 | 0.446 | 0.812 | 0.344 | (0.071) | 0.31 | 2.81 | 0.0286 | . | 0.0108 | 0.211 |
| 1 | 13X 12535BE | 0.0591 | 0.0400 | 14.79 | 16.95 | 0.229 | 0.342 | 1.407 | 0.130 | 0.194 | 0.146 | 4.09 | 0.029 | . | 0.625 | 0.252 |
| 1 | SRM C1154a | 0.051 | 0.06 | 13.08 | 19.31 | 0.100 | 1.44 | 0.53 | 0.44 | . | 0.38 | 0.068 | . | . | . | 0.135 |
| 1 | 13X 19003C | 0.046 | 0.0382 | 12.46 | 18.99 | 0.047 | 1.138 | 0.497 | 0.171 | . | 0.105 | 2.50 | 0.077 | 0.120 | . | 0.0486 |
| 1 | VS LG58 | 0.0280 | 0.0135 | 4.26 | 23.4 | 0.48 | 0.99 | 0.292 | 0.388 | . | . | 2.41 | 0.062 | 0.214 | 0.039 | 0.264 |
| 1 | VS LG60 | 0.0205 | 0.028 | 19.86 | 21.8 | 0.020 | 2.31 | 0.289 | 0.027 | 0.040 | . | 3.62 | . | 0.83 | 0.265 | 0.229 |
| 2 | 13X 19004B | 0.014 | 0.069 | 17.9 | 22.8 | 0.066 | 1.96 | 0.36 | 0.022 | . | . | 3.62 | . | 0.18 | . | . |
| 1 | 13X 18004B | 0.0191 | 0.068 | 12.67 | 21.57 | 0.099 | 1.400 | 1.21 | 0.050 | 0.011 | 0.211 | 0.601 | 0.061 | 0.749 | . | 0.161 |

| Number | Ag | As | B | O | Pb | Sn | Ta | W | Units |
|---------------|--------|---------|--------|--------|---------|------------------------|---------|---------|-------------------------------------|
| CT 416 | 0.0002 | . | . | . | <0.001 | 0.005 | . | . | 30-35 mm Ø x 20-25 mm |
| IARM 1D | . | . | <0.002 | 0.007 | . | 0.006 | 0.015 | . | 31 mm Ø x 18 mm last of stock |
| BS 150 | . | . | . | 0.012 | . | (0.003) | . | 0.01 | 35 mm Ø x ~7 or 19+ mm |
| SRM 1223 | . | . | . | . | . | . | . | . | 32 mm Ø x 19 mm |
| BS 90F | . | . | . | 0.011 | . | 0.005 | . | 0.032 | 38 mm Ø x ~7 or 19+ mm |
| BS 303 | . | . | 0.0013 | 0.0058 | . | 0.0091 | . | 0.023 | 44 mm Ø x ~7 or 19+ mm 17025 |
| 13X 30300A | . | . | 0.0035 | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| CT 303 | 0.0003 | . | . | . | 0.001 | 0.007 | . | . | 30-35 mm Ø x 20-25 mm |
| BS 154 | . | . | . | 0.008 | . | (0.005) | . | (0.01) | 38 mm Ø x ~7 or 19+ mm |
| 13X 12549K | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| BS 153 | . | (0.004) | . | . | (0.001) | 0.002 | . | (0.002) | 35 mm Ø x ~7 or 19+ mm |
| BS 152 | . | . | . | . | . | 0.003 | . | <0.01 | 41 mm Ø x ~7 or 19+ mm |
| CZ SP-1A | . | 0.006 | 0.0007 | . | . | 0.01 | . | 0.03 | ~39 mm Ø x 25 mm |
| 13X 12548M | . | . | . | . | . | Sb:0.022 | . | 0.031 | 40 mm Ø x 15 mm |
| 13X 43020A * | . | . | 0.005 | . | . | * Provisional Analysis | . | 0.01 | ~40 mm Ø x ~15 mm |
| IMZ 154 | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| BS 155 | . | . | . | 0.0048 | . | (0.003) | . | . | 36 mm Ø x ~7 or 19+ mm |
| 13X 12536S | . | . | 0.0274 | . | . | 0.018 | 0.091 | . | ~40 mm Ø x ~15 mm |
| 13X 8110L | . | 0.074 | 0.989 | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| 13X 12535BE | . | . | 0.0051 | . | . | 0.0194 | (0.020) | . | ~40 mm Ø x ~15 mm |
| SRM C1154a | . | . | . | . | 0.017 | . | . | . | 32 mm Ø x 19 mm |
| 13X 19003C | . | . | . | . | . | (0.005) | . | . | ~40 mm Ø x ~15 mm |
| VS LG58 | . | . | . | . | . | . | . | 0.21 | ~47 mm Ø x ~30 mm |
| VS LG60 | . | . | . | . | . | . | . | 0.115 | ~47 mm Ø x ~30 mm |
| 13X 19004B | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| 13X 18004B | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |

SELENIUM IN STAINLESS AND HIGH ALLOY STEEL

= Class, where 1 = CRM and 2 = RM

| # | Number | Se | Ni | Cr | C | Mn | P | S | Si | Cu | Al | Co | Mo | N | Nb | Ti |
|---|------------|-------|-------|-------|-------|------|-------|--------|------|-------|----------|-------|--------|--------|----------|----------|
| 2 | BS 151 | 0.328 | 0.24 | 13.19 | 0.090 | 0.41 | 0.021 | 0.018 | 0.65 | 0.11 | (0.002) | 0.018 | 0.088 | 0.022 | 0.005 | (<0.003) |
| 2 | BS 186A | 0.229 | 35.86 | 0.16 | 0.040 | 0.72 | 0.008 | 0.0053 | 0.19 | 0.016 | (0.001) | 0.028 | 0.0032 | 0.0026 | (<0.002) | (<0.003) |
| 1 | IARM 253A | 0.21 | 9.17 | 17.90 | 0.041 | 1.50 | 0.140 | 0.0089 | 0.50 | 0.223 | 0.003 | 0.088 | 0.348 | 0.0373 | 0.016 | 0.002 |
| 1 | IARM 24B | 0.19 | 35.86 | 0.121 | 0.053 | 0.82 | 0.009 | 0.0010 | 0.28 | 0.052 | 0.002 | 0.036 | 0.011 | 0.0017 | <0.01 | 0.002 |
| 2 | CT ISO124A | 0.167 | 48.07 | 0.079 | 0.011 | 0.73 | 0.007 | 0.006 | 0.40 | 0.015 | . | 0.012 | 0.009 | . | . | . |
| 2 | BS 156 | 0.142 | 0.35 | 16.87 | 1.06 | 1.15 | 0.022 | 0.007 | 0.47 | 0.09 | (<0.002) | 0.047 | 0.50 | 0.041 | 0.005 | 0.001 |

| Number | B | Fe | O | Sn | Ta | V | W | Zr | Units |
|------------|---------|-------|--------|---------|--------|--------|--------|--------|------------------------|
| BS 151 | . | . | 0.009 | 0.005 | . | 0.046 | 0.010 | . | 50 mm Ø x ~7 or 19+ mm |
| BS 186A | . | . | . | (0.002) | . | 0.0012 | (0.01) | . | 38 mm Ø x ~7 or 19+ mm |
| IARM 253A | 0.0003 | . | 0.009 | 0.01 | . | 0.106 | 0.10 | . | 31 mm Ø x 2 or 18 mm |
| IARM 24B | (0.001) | 62.6 | 0.003 | 0.0018 | <0.005 | <0.005 | <0.04 | <0.005 | 31 mm Ø x 2 or 18 mm |
| CT ISO124A | . | 50.65 | . | . | . | . | . | . | 30-35 mm Ø x 20-25 mm |
| BS 156 | . | . | 0.0045 | (0.004) | . | 0.13 | 0.11 | . | 41 mm Ø x ~7 or 19+ mm |

STAINLESS STEEL WITH NI < 5.0 %

CONTINUED ON THE NEXT PAGE

= Class, 1=CRM, 2=RM, and 3=RM with no uncertainties analysis listed in mass % except * which is mg/Kg ** Provisional Analysis

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Co | Mo | N | Nb | Ti | V | W |
|---|---------------|--------|-------|--------|----------|-------|--------|--------|--------|---------|--------|---------|--------|---------|--------|---------|
| 1 | 14X HS11A | 1.739 | 0.237 | 0.0133 | 0.0107 | 0.794 | 0.0562 | 0.188 | 19.34 | 0.074 | 1.52 | (0.002) | . | . | 1.032 | 2.24 |
| 1 | 14X HS10A | 1.710 | 0.134 | 0.0135 | 0.0099 | 0.660 | 0.0605 | 0.146 | 14.83 | 0.0866 | 1.679 | (0.001) | . | . | 1.142 | 1.75 |
| 3 | CZ SL-4A | 1.38 | 2.85 | 0.038 | 0.017 | 2.28 | 0.75 | 2.04 | 26.3 | 0.11 | 0.92 | . | 1.11 | 0.8 | 0.54 | 0.35 |
| 2 | BS 156 | 1.06 | 1.15 | 0.022 | 0.007 | 0.47 | 0.09 | 0.35 | 16.87 | 0.047 | 0.50 | 0.041 | 0.005 | 0.001 | 0.13 | 0.11 |
| 1 | BS 93F | 1.047 | 0.59 | 0.0266 | (0.0025) | 0.49 | 0.132 | 0.187 | 16.72 | 0.021 | 0.46 | 0.051 | 0.0029 | 0.0012 | 0.057 | 0.0016 |
| 1 | 13X 44004A | 1.052 | 0.346 | 0.0214 | 0.0178 | 0.363 | 0.0548 | 0.207 | 16.74 | 0.0188 | 0.462 | 0.0247 | . | . | 0.076 | 0.030 |
| 1 | IARM 13D ** | 1.04 | 0.70 | 0.020 | 0.0010 | 0.61 | 0.18 | 0.26 | 16.4 | 0.021 | 0.49 | 0.049 | 0.007 | (0.003) | 0.058 | 0.04 |
| 2 | BS 155 | 1.00 | 0.35 | 0.014 | 0.145 | 0.40 | 0.035 | 0.13 | 16.64 | 0.019 | 0.46 | 0.032 | 0.002 | . | 0.10 | . |
| 1 | NCS HS41752 | 0.97 | 0.46 | 0.023 | 0.0016 | 0.48 | 0.082 | 0.192 | 17.61 | 0.057 | . | . | . | . | 0.088 | . |
| 1 | ECRM 291-1D | 0.90 | 0.81 | 0.017 | 0.0088 | 0.91 | 0.071 | 0.56 | 17.15 | 0.0233 | 2.10 | 0.1142 | . | . | 0.39 | . |
| 1 | VS LG40/1 | 0.66 | 0.318 | (0.02) | (0.006) | 0.289 | (0.15) | 0.271 | 13.67 | . | 0.039 | . | . | . | 0.038 | . |
| 1 | VS LG39/1 | 0.406 | 0.64 | (0.02) | (0.007) | 0.94 | (0.12) | 0.42 | 13.11 | . | 0.136 | . | . | . | 0.135 | . |
| 1 | 13X 14122A | 0.356 | 0.480 | 0.0177 | 0.0021 | 0.449 | 0.066 | 0.632 | 15.91 | 0.0224 | 0.855 | 0.0290 | 0.006 | . | 0.101 | 0.004 |
| 1 | IARM 154B | 0.35 | 0.405 | 0.017 | 0.0004 | 0.45 | 0.087 | 0.223 | 12.20 | 0.020 | 0.079 | 0.020 | 0.003 | 0.002 | 0.067 | 0.010 |
| 2 | BS SS4952 | 0.347 | 0.41 | 0.016 | 0.003 | 0.66 | 0.045 | 0.23 | 13.15 | 0.030 | 0.049 | 0.027 | 0.004 | 0.002 | 0.089 | (0.007) |
| 1 | IARM 154C ** | 0.339 | 0.42 | 0.017 | 0.004 | 0.37 | 0.120 | 0.21 | 12.4 | 0.016 | 0.036 | 0.054 | 0.017 | 0.0013 | 0.042 | (0.005) |
| 2 | BS SS4951 | 0.333 | 0.58 | 0.016 | 0.0012 | 0.62 | 0.033 | 0.15 | 13.55 | 0.013 | 0.009 | 0.0127 | 0.006 | 0.002 | 0.032 | . |
| 2 | BS 152 | 0.320 | 0.36 | 0.022 | 0.275 | 0.44 | 0.050 | 0.14 | 13.41 | 0.015 | 0.061 | 0.020 | 0.006 | . | 0.051 | <0.01 |
| 1 | IRSID 1825 | 0.305 | 0.650 | 0.019 | 0.022 | 0.336 | 0.100 | 0.08 | 12.90 | 0.026 | 0.052 | 0.052 | 0.006 | . | 0.052 | . |
| 1 | ECRM 272-1D | 0.2815 | 0.600 | 0.0156 | 0.0196 | 0.420 | 0.0192 | 0.2445 | 11.927 | 0.0145 | 0.0030 | 0.0508 | 0.0028 | 0.00096 | 0.0167 | . |
| 1 | SS 469 | 0.279 | 0.598 | 0.015 | 0.020 | 0.421 | (0.02) | 0.246 | 11.93 | (0.01) | . | . | . | . | (0.02) | . |
| 1 | VS LG38/1 | 0.255 | 0.73 | (0.02) | (0.01) | 0.81 | (0.16) | 0.551 | 11.75 | . | 0.344 | . | . | . | 0.190 | . |
| 1 | IMZ 168 | 0.24 | 1.36 | 0.019 | 0.012 | 1.12 | 0.093 | 0.17 | 13.91 | (0.019) | 0.026 | (0.057) | . | (0.003) | 0.053 | . |
| 1 | 13X 12547M | 0.238 | 1.191 | 0.0441 | 0.0746 | 0.344 | 0.531 | 1.492 | 17.49 | 0.302 | 1.009 | 0.099 | 0.347 | . | 0.1021 | . |
| 1 | BS 422 | 0.232 | 0.640 | 0.0169 | 0.0013 | 0.404 | 0.080 | 0.676 | 11.25 | 0.0293 | 0.896 | 0.050 | 0.045 | 0.0011 | 0.274 | 0.95 |
| 1 | IARM 205D ** | 0.23 | 0.74 | 0.021 | (0.003) | 0.26 | 0.121 | 0.84 | 12.2 | 0.043 | 1.00 | 0.048 | 0.013 | (0.002) | 0.32 | 1.09 |
| 1 | SS 472 | 0.227 | 1.02 | 0.032 | 0.029 | 1.05 | (0.02) | 1.95 | 15.82 | (0.02) | 0.661 | . | . | . | (0.02) | . |
| 1 | 13X 42200A ** | 0.22 | 0.65 | 0.018 | 0.001 | 0.32 | 0.14 | 0.73 | 11.5 | 0.01 | 1.06 | 0.02 | 0.02 | . | 0.25 | 1.15 |
| 1 | NCS HS41749 | 0.21 | 0.39 | 0.023 | 0.012 | 0.56 | 1.15 | 1.52 | 12.27 | . | 0.158 | . | . | . | 0.074 | . |
| 1 | 13X 42000A | 0.208 | 0.679 | 0.0241 | 0.0253 | 0.496 | 0.202 | 0.295 | 12.56 | 0.0161 | 0.0398 | 0.0273 | . | . | 0.046 | . |
| 1 | VS LG41/1 | 0.200 | 0.91 | (0.02) | (0.008) | 0.64 | (0.12) | 1.53 | 15.90 | . | 0.277 | . | . | . | 0.303 | . |
| 1 | 13X 14923A ** | 0.20 | 0.50 | 0.021 | 0.003 | 0.33 | 0.055 | 0.46 | 11.2 | 0.02 | 0.82 | 0.033 | 0.005 | . | 0.30 | . |
| 1 | IMZ 171 | 0.195 | 0.42 | 0.020 | 0.014 | 0.21 | 0.116 | 0.59 | 11.44 | 0.024 | 1.23 | 0.057 | . | (0.001) | 0.26 | . |
| 1 | NCS HS41748 | 0.194 | 0.62 | 0.016 | 0.011 | 0.54 | 0.008 | 0.077 | 12.70 | . | 0.010 | . | . | . | 0.048 | . |
| 2 | HRT FE2015-H | 0.19 | 0.52 | 0.021 | 0.002 | 0.37 | 0.07 | 0.25 | 12.87 | . | 0.07 | 0.045 | . | . | 0.055 | . |
| 1 | 13X 12548M | 0.188 | 0.577 | 0.027 | 0.219 | 0.425 | 0.230 | 1.075 | 12.96 | 0.353 | 1.318 | 0.0500 | 0.586 | . | . | 0.031 |
| 2 | HRT FE2010-H | 0.18 | 0.60 | 0.024 | 0.004 | 0.33 | 0.08 | 1.94 | 15.95 | 0.023 | 0.13 | . | . | . | 0.044 | 0.024 |
| 1 | SS 70 | 0.18 | 0.38 | 0.024 | 0.020 | 0.35 | (0.06) | 0.40 | 16.35 | . | . | . | . | . | . | . |
| 1 | IARM 20B | 0.18 | 0.35 | 0.019 | 0.004 | 0.40 | 0.069 | 1.94 | 12.42 | 0.030 | 0.32 | 0.0434 | 0.010 | 0.004 | 0.17 | 3.52 |
| 1 | IARM 20C | 0.18 | 0.30 | 0.018 | 0.007 | 0.35 | 0.060 | 1.93 | 12.15 | 0.031 | 0.12 | 0.0222 | 0.010 | (0.003) | 0.086 | 2.59 |
| 1 | IMZ 167 | 0.175 | 1.16 | 0.016 | 0.0025 | 0.755 | 0.106 | 0.16 | 13.07 | (0.021) | 0.024 | 0.053 | . | (0.002) | 0.054 | . |
| 1 | SS 473 | 0.172 | 0.494 | 0.019 | 0.030 | 0.604 | (0.02) | (0.06) | 9.06 | (0.01) | 0.95 | . | . | . | (0.02) | . |
| 2 | ES 183A | 0.17 | 0.13 | 0.015 | 0.0040 | 0.35 | 0.093 | 1.85 | 11.14 | 0.035 | 0.12 | 0.0256 | 0.006 | 0.002 | 0.090 | 2.60 |
| 1 | 13X 15024X | 0.166 | 0.610 | 0.0284 | 0.0294 | 0.750 | 0.332 | 2.95 | 14.25 | 0.1059 | 0.299 | 0.0156 | 0.099 | . | 0.150 | 0.039 |
| 1 | 13X 43100A | 0.166 | 0.378 | 0.0199 | 0.0050 | 0.535 | 0.134 | 2.10 | 16.39 | 0.0239 | 0.0768 | 0.075 | 0.006 | . | 0.0577 | 0.004 |

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Co | Mo | N | Nb | Ti | V | W |
|---|-------------|--------|-------|--------|--------|-------|--------|--------|-------|---------|--------|--------|---------|---------|--------|---------|
| 2 | 13X 12549K | 0.16 | 0.34 | 0.092 | 0.29 | 0.43 | 0.10 | 1.26 | 11.70 | 0.52 | 1.49 | . | 0.23 | . | . | . |
| 1 | IARM 12C | 0.155 | 0.55 | 0.022 | 0.0032 | 0.34 | 0.33 | 2.23 | 15.78 | 0.048 | 0.125 | 0.056 | 0.020 | (0.002) | 0.040 | 0.015 |
| 1 | SS 470 | 0.153 | 0.235 | 0.024 | 0.035 | 0.335 | (0.02) | 0.369 | 17.68 | (0.02) | . | . | . | . | (0.02) | . |
| 2 | BS 92B | 0.150 | 0.42 | 0.021 | 0.003 | 0.42 | 0.13 | 2.12 | 15.92 | 0.04 | 0.17 | 0.073 | (0.006) | . | 0.07 | 0.02 |
| 1 | SRM 1219 | 0.149 | 0.42 | 0.026 | 0.001 | 0.545 | 0.162 | 2.16 | 15.64 | . | 0.164 | 0.078 | . | . | . | 0.056 |
| 2 | CT X68887 | 0.147 | 0.51 | 0.016 | 0.007 | 0.36 | 0.074 | 0.22 | 11.86 | . | 0.008 | 0.028 | 0.12 | . | . | . |
| 2 | CT X68890 | 0.147 | 0.48 | 0.015 | 0.007 | 0.35 | 0.054 | 0.10 | 11.87 | . | 0.009 | 0.030 | 0.10 | . | . | . |
| 2 | BS 431 | 0.146 | 0.579 | 0.0232 | 0.0047 | 0.393 | 0.282 | 2.25 | 15.7 | 0.050 | 0.092 | 0.049 | 0.034 | 0.0007 | 0.062 | 0.012 |
| 1 | IARM 335A | 0.138 | 0.85 | 0.016 | 0.0005 | 0.39 | 0.086 | 4.27 | 15.30 | 0.063 | 2.72 | 0.085 | 0.015 | (0.002) | 0.094 | 0.008 |
| 1 | BS 355 | 0.136 | 0.862 | 0.0171 | 0.0003 | 0.374 | 0.173 | 4.18 | 15.43 | 0.053 | 2.73 | 0.081 | 0.0103 | 0.0007 | 0.106 | 0.0069 |
| 1 | 13X 41001A | 0.136 | 0.464 | 0.0142 | 0.0037 | 0.298 | 0.056 | 0.0939 | 12.06 | 0.0143 | 0.0102 | 0.0316 | . | . | 0.079 | . |
| 1 | NCS HS28747 | 0.132 | 0.453 | 0.027 | 0.0068 | 0.502 | 0.126 | 1.79 | 16.24 | 0.051 | 0.153 | 0.030 | . | (0.002) | 0.075 | . |
| 1 | 13X 12540M | 0.131 | 0.800 | 0.051 | 0.052 | 0.805 | 0.81 | 4.975 | 27.44 | 0.109 | 0.933 | 0.054 | 0.107 | (0.002) | 0.210 | 0.097 |
| 1 | BS 410C | 0.131 | 0.281 | 0.06 | 0.051 | 0.605 | 0.084 | 2.52 | 12.78 | 0.035 | 0.055 | 0.029 | 0.056 | 0.0006 | 0.042 | 0.0131 |
| 1 | BS 002I | 0.128 | 0.420 | 0.021 | 0.008 | 0.354 | 0.040 | 0.100 | 12.00 | 0.015 | 0.016 | 0.029 | (0.001) | (0.003) | 0.029 | 0.005 |
| 1 | IARM 10C | 0.128 | 0.35 | 0.026 | 0.29 | 0.37 | 0.155 | 0.24 | 12.25 | 0.022 | 0.08 | 0.015 | 0.003 | 0.002 | 0.024 | 0.011 |
| 1 | SRM 1223 | 0.127 | 1.08 | 0.018 | 0.329 | 0.327 | 0.081 | 0.232 | 12.64 | . | 0.053 | . | . | . | 0.068 | . |
| 1 | ECRM 296-1D | 0.1166 | 0.676 | 0.0178 | 0.0026 | 0.242 | 0.1498 | 2.790 | 11.82 | 0.0218 | 1.700 | 0.0214 | . | . | 0.363 | . |
| 1 | BS 416 | 0.116 | 0.64 | 0.0237 | 0.35 | 0.232 | 0.154 | 0.371 | 13.41 | 0.0241 | 0.030 | 0.043 | (0.006) | 0.0012 | 0.100 | 0.0034 |
| 2 | CT X23576 | 0.116 | 0.40 | 0.018 | 0.027 | 0.40 | 0.072 | 0.26 | 12.30 | . | 0.062 | 0.032 | . | . | . | . |
| 1 | 13X 15035U | 0.115 | 0.674 | 0.0415 | 0.0456 | 0.636 | 0.204 | 2.38 | 14.00 | 0.199 | 0.399 | 0.0584 | 0.500 | . | 0.160 | 0.048 |
| 1 | 13X 64152A | 0.114 | 0.666 | 0.0123 | 0.0020 | 0.224 | 0.0622 | 2.50 | 11.34 | 0.0185 | 1.567 | 0.0339 | . | . | 0.275 | . |
| 1 | 13X 41600A | 0.111 | 0.627 | 0.0253 | 0.302 | 0.442 | 0.160 | 0.331 | 13.23 | 0.0216 | 0.0499 | 0.0245 | 0.0053 | . | 0.0888 | (0.003) |
| 1 | 13X 12533Z | 0.110 | 0.812 | 0.0149 | 0.0156 | 0.440 | 0.131 | 5.06 | 18.80 | 0.0299 | 1.05 | 0.073 | . | 0.147 | 0.181 | . |
| 1 | IARM 291A | 0.11 | 0.71 | 0.016 | 0.009 | 0.23 | 0.060 | 2.62 | 11.3 | 0.021 | 1.61 | 0.035 | 0.022 | 0.0011 | 0.29 | (0.01) |
| 2 | CT 410 | 0.11 | 0.48 | 0.015 | 0.023 | 0.27 | 0.079 | 0.34 | 12.04 | 0.023 | 0.053 | 0.036 | 0.001 | 0.001 | 0.025 | 0.004 |
| 1 | IMZ 156 | 0.101 | 0.84 | 0.031 | 0.008 | 1.11 | 0.071 | 0.64 | 16.96 | (0.033) | 0.035 | . | . | (0.032) | 0.073 | . |
| 1 | SS 471 | 0.095 | 0.417 | 0.018 | 0.023 | 0.326 | (0.02) | 0.96 | 23.85 | (0.02) | . | . | . | . | (0.03) | . |
| 1 | IMZ 158 | 0.091 | 1.34 | 0.015 | 0.007 | 2.23 | 0.097 | 0.24 | 25.51 | . | 0.025 | . | . | 0.12 | 0.078 | . |
| 2 | BS 151 | 0.090 | 0.41 | 0.021 | 0.018 | 0.65 | 0.11 | 0.24 | 13.19 | 0.018 | 0.088 | 0.022 | 0.005 | (0.003) | 0.046 | 0.0 |

STAINLESS STEEL WITH NI < 5.0 %

CONTINUED FROM THE PREVIOUS PAGE

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

** Provisional Analysis

| Number | Al | As | B | Ca* | Mg* | Pb* | O | Sb | Se | Sn | Ta | Zn | Zr | Units |
|---------------|----------|---------|----------|------|-----|-------|---------|----------|----------|---------|----------|--------------|---------|----------------------------------|
| 14X HS11A | . | . | . | . | . | . | . | . | . | . | . | . | . | ~48 mm Ø x 13 mm |
| 14X HS10A | . | . | . | . | . | . | . | . | . | . | . | . | . | ~48 mm Ø x 13 mm |
| CZ SL-4A | 0.12 | . | 0.0013 | . | . | . | . | . | . | 0.02 | . | . | . | ~39 mm Ø x 25 mm |
| BS 156 | (<0.002) | . | . | . | . | . | 0.0045 | . | 0.142 | (0.004) | . | . | . | 41 mm Ø x ~7 or 19+ mm |
| BS 93F | 0.0052 | 0.0056 | (0.0001) | 19 | (6) | (2) | 0.0031 | 0.0016 | . | 0.0059 | . | 17025 | (0.001) | 38 mm Ø x ~7 or 19+ mm Fe:[80.2] |
| 13X 44004A | 0.0305 | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x ~15 mm |
| IARM 13D ** | 0.006 | (0.01) | (0.001) | (10) | . | . | (0.003) | (0.002) | <0.005 | 0.011 | (0.003) | . | (0.001) | 31 mm Ø x 2 or 18 mm |
| BS 155 | (0.001) | . | . | . | . | . | 0.0048 | . | . | (0.003) | . | . | . | 36 mm Ø x ~7 or 19+ mm |
| NCS HS41752 | (0.032) | . | . | . | . | . | . | . | . | . | . | . | . | 38 mm Ø x 35 mm |
| ECRM 291-1D | . | . | . | . | . | . | . | . | . | . | . | . | . | 36-41 mm Ø x 28-35 mm |
| VS LG40/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| VS LG38/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| 13X 14122A | (0.002) | . | . | . | . | . | . | . | . | 0.0041 | . | . | . | ~40 mm Ø x ~15 mm |
| IARM 154B | 0.002 | . | (0.001) | . | . | . | 0.0016 | . | . | 0.006 | . | . | . | 31 mm Ø x 18 mm last |
| BS SS4952 | 0.003 | 0.002 | (0.0004) | 19 | . | . | 0.005 | . | . | 0.004 | . | . | . | 38 mm Ø x ~7 or 19+ mm |
| IARM 154C ** | (0.003) | (0.004) | 0.0007 | . | . | . | (0.004) | (0.001) | (0.0003) | 0.006 | . | . | (0.001) | 31 mm Ø x 2 or 18 mm |
| BS SS4951 | 0.002 | 0.002 | . | . | . | . | 0.0055 | . | . | 0.003 | . | . | . | 42 mm Ø x ~7 or 19+ mm |
| BS 152 | (0.002) | . | . | . | . | . | . | . | . | 0.003 | . | . | . | 41 mm Ø x 19+ mm |
| IRSID 1825 | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 30 mm |
| ECRM 272-1D | 0.0046 | 0.0116 | 0.0018 | 9.0 | (2) | . | . | 0.0007 | . | . | . | 0.0031 | . | 38 mm Ø x 25 or 30 mm |
| SS 469 | . | . | . | . | . | . | . | . | . | . | . | . | . | 35 mm Ø x 19 mm |
| VS LG38/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| IMZ 168 | (0.004) | . | . | . | . | . | . | . | . | 0.009 | . | . | . | 40 mm Ø x 40 mm |
| 13X 12547M | . | . | . | . | . | . | . | . | . | 0.030 | . | . | . | ~40 mm Ø x ~15 mm |
| BS 422 | 0.0135 | 0.0041 | (0.0002) | 31 | (9) | (0.5) | 0.0030 | (0.0007) | . | 0.0043 | (0.0001) | 17025 | (0.001) | 38 mm Ø x ~7 or 19+ mm Fe:84.5 |
| IARM 205D ** | (0.002) | (0.005) | (0.001) | (10) | . | . | (0.005) | . | . | (0.005) | (0.003) | . | (0.002) | 31 mm Ø x 2 or 18 mm |
| SS 472 | . | . | . | . | . | . | . | . | . | . | . | . | . | 35 mm Ø x 19 mm |
| 13X 42200A ** | 0.003 | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~15 mm |
| NCS HS41749 | . | . | . | . | . | . | . | . | . | . | . | . | . | 38 mm Ø x 35 mm |
| 13X 42000A | . | . | 0.0013 | . | . | . | . | . | . | 0.0073 | . | . | . | ~38 mm Ø x ~15 mm |
| VS LG41/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| 13X 14923A ** | 0.003 | . | . | 50 | . | . | . | . | . | 0.003 | . | . | . | ~40 mm Ø x ~15 mm |
| IMZ 171 | 0.036 | . | . | . | . | . | . | (0.003) | . | 0.008 | . | . | . | 40 mm Ø x 40 mm |
| NCS HS41748 | . | . | . | . | . | . | . | . | . | . | . | . | . | 38 mm Ø x 35 mm |
| HRT FE2015-H | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 mm Ø x 20 mm |
| 13X 12548M | . | . | . | . | . | . | . | 0.022 | . | . | . | . | . | 40 mm Ø x 15 mm |
| HRT FE2010-H | . | . | . | . | . | . | . | . | . | . | . | . | . | 35 mm Ø x 20 mm |
| SS 70 | . | . | . | . | . | . | . | . | . | . | . | . | . | 44 mm Ø x 13 mm |
| IARM 20B | 0.006 | . | . | . | . | . | 0.0056 | . | . | 0.005 | . | . | . | 31 mm Ø x 2 mm |
| IARM 20C | (0.004) | . | . | . | . | . | 0.0068 | . | . | 0.004 | . | . | . | 31 mm Ø x 2 or 18 mm |
| IMZ 167 | (0.018) | . | . | . | . | . | . | . | . | 0.009 | . | . | . | 40 mm Ø x 40 mm |
| SS 473 | . | . | . | . | . | . | . | . | . | . | . | . | . | 35 mm Ø x 19 mm |
| BS 183A | 0.002 | (0.002) | <0.0005) | 20 | . | . | 0.0065 | (0.001) | . | 0.003 | . | . | . | ~40 mm Ø x ~7 or 19+ mm |
| 13X 15024X | 0.0049 | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| 13X 43100A | . | . | . | . | . | . | . | . | . | 0.004 | . | . | . | ~38 mm Ø x ~15 mm |

| Number | Al | As | B | Ca* | Mg* | Pb* | O | Sb | Se | Sn | Ta | Zn | Zr | Units |
|----------------|---------|----------|----------|------|------|-------|----------|----------|----------|---------|----------|-----------------------|----------|-------------------------------------|
| 13X 12549K | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| IARM 12C | (0.004) | (0.004) | 0.0004 | 7 | (2) | (5) | (0.005) | . | . | 0.008 | (0.0005) | . | (0.001) | 31 mm Ø x 2 or 18 mm |
| SS 470 | . | . | . | . | . | . | . | . | . | . | . | . | . | 35 mm Ø x 19 mm |
| BS 92B | (0.002) | . | . | (9) | . | . | 0.0064 | . | . | 0.006 | . | . | . | 44 mm Ø x ~7 mm last |
| SRM 1219 | . | . | . | . | . | . | . | . | . | . | . | . | . | 34 mm Ø x 19 mm |
| CT X68887 | <0.004 | . | . | . | . | . | . | . | . | 0.004 | . | . | . | 30-35 mm Ø x 20-25 mm |
| CT X68890 | <0.004 | . | . | . | . | . | . | . | . | 0.004 | . | . | . | 30-35 mm Ø x 20-25 mm |
| BS 431 | 0.0019 | 0.0038 | 0.0003 | 7 | (2) | . | 0.0059 | 0.0011 | . | 0.0134 | . | 17025 | (0.001) | 38 mm Ø x ~7 or 19+ mm Fe: 80.2 |
| IARM 335A | 0.019 | (0.01) | 0.0007 | (10) | . | . | 0.0020 | . | . | 0.0034 | (0.01) | . | (0.002) | 31 mm Ø x 2 or 18 mm |
| BS 355 | 0.0192 | 0.0039 | (0.0001) | (2) | (2) | (0.3) | 0.0020 | (0.0009) | . | 0.0038 | (0.0001) | . | (0.003) | 41 mm Ø x ~7 or 19+ mm 17025 |
| 13X 41001A | (0.004) | . | . | 10 | . | . | . | . | . | 0.0051 | . | . | . | ~41 mm Ø x ~15 mm |
| NCS HS28747 | . | 0.0063 | . | . | 1 | . | . | . | . | 0.0057 | . | . | . | 38 mm Ø x 35 mm |
| 13X 12540M | . | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| BS 0021 | 0.0079 | 0.0029 | (0.0001) | 22 | (3) | (1) | 0.0051 | (0.0002) | . | 0.0023 | (0.001) | . | (0.0002) | 38 mm Ø x ~7 or 19+ mm 17025 |
| IARM 10C | 0.008 | (0.004) | <0.0002) | (2) | . | . | (0.004) | . | . | 0.003 | . | . | . | 40 mm Ø x ~7 or 19+ mm |
| SRM 1223 | . | . | <0.0005) | . | . | . | 0.008 | . | . | 0.009 | . | last of stock | . | 31 mm Ø x 2 or 18 mm |
| ECRM 296-1D | 0.0275 | 0.0139 | (0.0003) | . | . | . | 1.6 | . | . | 0.0131 | . | . | . | 32 mm Ø x 19 mm |
| BS 416 | (0.002) | 0.0039 | (0.001) | (3) | (3) | (6) | 0.0081 | (0.002) | . | (0.005) | (0.004) | 17025 | (0.002) | 38 mm Ø x ~7 or 19+ mm Fe:[84.3] |
| CT X23576 | . | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 20-25 mm |
| 13X 15035U | (0.093) | . | . | . | . | . | . | . | . | 0.0053 | . | . | . | ~40 mm Ø x ~15 mm |
| 13X 64152A | 0.0315 | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~15 mm |
| 13X 41600A | (0.004) | . | . | . | . | . | . | . | . | 0.0066 | . | . | . | ~41 mm Ø x ~15 mm |
| 13X 12533Z | 0.059 | . | 0.0100 | . | . | . | . | . | . | 0.0097 | . | . | . | ~40 mm Ø x ~15 mm |
| IARM 291A | (0.004) | . | 0.001 | . | . | . | 0.014 | . | . | 0.004 | (0.001) | . | <0.005 | 31 mm Ø x 2 or 18 mm |
| CT 410 | 0.015 | . | . | . | . | . | <10 | . | . | 0.006 | . | . | . | 30-35 mm Ø x 20-25 mm Ag: 2 ppm |
| IMZ 156 | (0.034) | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| SS 471 | . | . | . | . | . | . | . | . | . | . | . | . | . | 35 mm Ø x 19 mm |
| IMZ 158 | 1.56 | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| BS 151 | (0.002) | . | . | . | . | . | 0.009 | . | 0.328 | 0.005 | . | . | . | 50 mm Ø x ~7 or 19+ mm |
| 13X 15023W ** | 0.003 | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| 13X 14742A | 0.004 | . | . | . | 22 | . | . | . | . | 0.0046 | . | 0.0055 | . | ~40 mm Ø x ~15 mm |
| BS 90F | (0.006) | . | . | . | . | . | 0.011 | . | . | 0.005 | . | . | . | 38 mm Ø x ~7 or 19+ mm |
| 13X 14762A | 1.318 | 0.0025 | . | . | 24 | . | . | . | . | 0.0048 | . | . | . | ~40 mm Ø x ~15 mm |
| IMZ 155 | (0.20) | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| CZ SL-1A | 0.86 | . | . | . | . | . | . | . | . | 0.01 | . | . | . | ~39 mm Ø x 25 mm |
| IMZ 161 | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| IARM 11D | 0.015 | (0.005) | 0.0006 | (20) | (30) | (5) | (0.004) | . | (0.001) | 0.006 | (0.003) | (0.004) | (0.001) | 31 mm Ø x 2 or 18 mm |
| IARM 14C | 0.0041 | (0.003) | 0.0005 | (10) | (5) | (1) | (0.006) | (0.002) | (0.0001) | 0.004 | (0.002) | (0.0003) | (0.001) | 38 mm Ø x 2 or 18 mm |
| BS 91F | 0.0029 | . | (0.0002) | 12 | . | . | (0.0076) | (0.0017) | . | 0.0054 | . | . | . | 38 mm Ø x ~7 or 19+ mm |
| IMZ 163A | 0.018 | (0.0035) | . | . | . | (10) | . | . | . | (0.003) | . | . | . | 40 mm Ø x 40 mm |
| BS 94C | 0.004 | . | . | . | . | . | 0.0061 | . | . | 0.006 | . | . | . | 44 mm Ø x 19+ mm |
| BS 0022 | 0.078 | 0.003 | 0.0007 | 8 | (5) | (6) | (0.002) | (0.0004) | . | 0.004 | . | 25 (pre-17025) | . | 38 mm Ø x ~7 or 19+ mm |
| 13X 14775R | . | . | . | . | . | . | 0.012 | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| BS 150 | 0.002 | . | . | . | . | . | . | . | . | (0.003) | . | . | . | 35 mm Ø x ~7 or 19+ mm |
| 13X 14418A | (0.003) | . | . | . | . | . | . | . | . | 0.005 | . | . | . | ~40 mm Ø x ~15 mm |
| NCS HS28748 | . | 0.0047 | . | . | . | 1 | . | . | . | 0.0063 | . | . | . | 38 mm Ø x 35 mm |
| BS 17-4PHB | . | . | 0.0036 | . | . | . | . | . | . | . | (0.002) | . | . | 40 mm Ø x ~7 or 19+ mm |
| SRM C1296 | 0.035 | . | . | . | . | . | . | . | . | . | . | . | . | 32 mm Ø x 19 mm |
| SRM C2400 | . | . | . | . | . | . | . | . | . | . | . | . | . | 32 mm Ø x 19 mm |
| HRT FE2009-H | . | . | . | (10) | . | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| BS 9621 | 0.003 | . | 0.0004 | (1) | . | . | . | . | . | 0.003 | (0.002) | . | . | 38 mm Ø x ~7 or 19+ mm |
| ECRM 273-1 | . | 0.0030 | . | . | . | . | . | . | . | 0.0021 | . | . | . | 40 mm Ø x 20 mm |
| BS 185A | 0.002 | . | 0.0017 | (2) | . | . | (0.0021) | . | . | 0.007 | (| | | |

STAINLESS STEEL WITH C > 0.05 % CONTINUED ON THE NEXT PAGE

= Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

Table with columns: #, Number, C, Mn, P, S, Si, Cu, Ni, Cr, Co, Mo, N, Nb, Ti, V, W. Rows include materials like KUT S24, VS LG76, SRM C1153a, etc.

Table with columns: #, Number, C, Mn, P, S, Si, Cu, Ni, Cr, Co, Mo, N, Nb, Ti, V, W. Rows include materials like KUT S26, NCS HS41750, BS 192, etc.

STAINLESS STEEL WITH C > 0.05 %

CONTINUED FROM THE PREVIOUS PAGE

| Number | Al | As | B | Bi | Ca | Ce | O | Pb | Sb | Sn | Ta | Zr | Units |
|--------------|---------|----------|----------|------------------------|----------|-------|---------|----------|-------|----------|---------------|---------|--------------------------|
| KUT S24 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 18 or 40 mm |
| VS LG76 | 0.034 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| VS LG74 | 0.035 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| KUT S21 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 18 or 40 mm |
| CZ CM-19A | 0.0788 | . | (0.091) | . | (0.0036) | . | . | . | . | 0.0283 | . | . | ~37 mm Ø x ~25 mm |
| VS LG79 | 0.059 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| CZ SP-3C | 0.095 | (0.03) | 1.67 | . | . | . | . | . | . | (0.02) | . | . | ~39 mm Ø x 25 mm |
| DSZU C016 | 0.007 | . | . | . | 0.0004 | . | . | . | . | . | . | . | 40 mm Ø x 25 mm |
| CZ SP-3B | 0.08 | . | 0.88 | . | . | . | . | . | . | 0.01 | . | . | ~39 mm Ø x 25 mm |
| KUT S19 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 18 or 40 mm |
| SRM C1153a | . | . | . | . | . | . | . | 0.006 | . | . | . | . | 32 mm Ø x 19 mm |
| VS LG34/5 | 0.029 | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~25 mm |
| 13X 18001B | 0.0157 | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| KUT H6/1 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 18 or 40 mm |
| 13X 12855M | . | . | 0.0099 | 0.015 | . | . | . | . | 0.210 | . | 0.050 | . | ~40 mm Ø x ~15 mm |
| CZ SP-3D | 0.037 | (0.03) | 2.45 | . | . | . | . | . | . | (0.04) | . | . | ~39 mm Ø x 25 mm |
| 13X NSB1D | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| IARM 339A | 0.004 | (0.001) | 0.0006 | . | 0.0014 | . | 0.016 | . | . | (0.002) | (0.005) | (0.003) | 31 mm Ø x 2 or 18 mm |
| 13X NSA3J | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| 13X 18002D | 0.0617 | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| 13X 12540L | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| CZ CM-18A | 0.0344 | . | . | . | . | . | . | . | . | . | last of stock | . | ~37 mm Ø x ~25 mm |
| SS 468/1 | . | . | . | . | . | . | . | . | . | . | . | . | 38 mm Ø x 19 mm |
| IARM 9D | (0.003) | (0.003) | 0.0005 | . | (0.001) | . | 0.0053 | (0.0002) | . | 0.006 | 0.004 | (0.001) | 31 mm Ø x 18 mm last |
| SRM C1152a | . | . | . | . | . | . | . | 0.0047 | . | . | . | . | 32 mm Ø x 19 mm |
| VS LG32/5 | 0.156 | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~25 mm |
| 13X NSA2H | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| IARM 289A | 0.01 | . | 0.0003 | . | . | . | 0.0104 | . | . | (0.002) | <0.005 | . | 31 mm Ø x 2 or 18 mm |
| IARM 241D * | 0.022 | (0.001) | 0.0011 | * Provisional Analysis | . | . | (0.004) | (0.0004) | . | 0.002 | (0.004) | (0.007) | 31 mm Ø x 2 or 18 mm |
| DSZU C018 | 0.086 | . | . | . | 0.0003 | . | . | . | . | . | . | . | 40 mm Ø x 25 mm |
| 13X NSB3G | . | . | . | . | . | . | . | 0.006 | . | . | . | . | 42 mm Ø x 15 mm |
| KUT H5 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 18 or 40 mm |
| 13X 17001B | 0.01 | . | 0.008 | . | . | . | . | . | . | 0.030 | . | . | ~40 mm Ø x ~15 mm last |
| 13X 18003C | 0.0292 | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| IRSID 1819 | . | . | (0.0004) | . | . | . | . | . | . | . | . | . | 47 mm x 47 mm x 30 mm |
| 13X 17002E | (0.030) | . | 0.0012 | . | . | . | . | . | . | . | (0.012) | . | ~40 mm Ø x ~15 mm |
| NCS HS28743 | 0.0056 | 0.0042 | . | . | . | . | . | 0.0004 | . | 0.0025 | . | . | 38 mm Ø x 35 mm |
| IMZ 166A | 0.036 | (0.0026) | . | . | . | . | . | . | . | (0.0035) | . | . | 40 mm Ø x 40 mm |
| VS LG81 | 0.409 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| VS LG77 | . | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| IMZ 164 | 0.040 | (0.005) | . | . | . | . | . | (0.002) | . | (0.003) | . | . | 40 mm Ø x 40 mm |
| 13X 17003A | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| VS LG73 | . | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| KUT S20 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 18 or 40 mm |
| VS LG80 | 0.025 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| BS 253 | 0.016 | 0.005 | . | . | . | 0.044 | . | . | . | 0.006 | 25(pre-17025) | . | 38 mm Ø x ~7 or 19+ mm |
| IARM 234C * | 0.035 | (0.002) | 0.0022 | * Provisional Analysis | (0.004) | . | . | . | . | (0.002) | (0.01) | (0.01) | 31 mm Ø x 2 or 18 mm |
| SS 462 | . | 0.007 | . | . | . | . | . | 0.0005 | . | . | . | . | 38 mm Ø x 19 mm |
| 13X 12537T | (0.062) | . | 0.0029 | . | . | . | . | . | . | 0.0401 | 0.0194 | . | ~40 mm Ø x ~15 mm |
| DSZU C015 | (0.008) | . | . | . | 0.0017 | . | . | . | . | . | . | . | 40 mm Ø x 25 mm |
| SS 464/1 | . | (0.003) | . | . | . | . | . | 0.0004 | . | . | . | . | 38 mm Ø x 19 mm |
| IMZ 165 | 0.038 | (0.003) | . | . | . | . | . | (0.001) | . | 0.003 | . | . | 40 mm Ø x 40 mm |
| SS 467/1 | . | 0.004 | . | . | . | . | . | 0.004 | . | . | 0.0017 | . | 38 mm Ø x 19 mm |
| 13X 17001C * | 0.03 | . | 0.01 | * Provisional Analysis | . | . | . | . | . | 0.001 | 0.01 | . | ~40 mm Ø x ~15 mm |
| VS LG35/5 | 0.087 | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~25 mm |

| Number | Al | As | B | Bi | Ca | Ce | O | Pb | Sb | Sn | Ta | Zr | Units |
|-------------|----------|----------|------------|------------------------|----------|-------|----------|---------------|----------|----------|---------------|---------|--------------------------------|
| KUT S26 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 18 or 40 mm |
| NCS HS41750 | 0.009 | . | . | . | . | . | . | . | . | . | . | . | 38 mm Ø x 35 mm |
| ECRM 270-1D | (0.0023) | (0.0034) | Ce: 0.0487 | La: 0.0154 | . | . | . | . | (0.0007) | (0.0035) | . | (0.002) | 38 mm Ø x 25 mm |
| VS LG78 | 0.15 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| BS 192 | 1.17 | (0.005) | (0.0003) | . | 0.0007 | . | 0.0014 | 25(pre-17025) | . | 0.008 | (0.001) | . | 38 mm Ø x ~7 or 19+ mm |
| BS 83G | (0.004) | . | (0.001) | . | . | . | 0.0064 | . | . | 0.003 | . | . | 38 mm Ø x ~7 or 19+ mm |
| VS LG72 | 0.089 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| 13X 12534X | 0.0485 | . | . | . | . | . | . | . | . | . | 0.031 | . | ~40 mm Ø x ~15 mm |
| IARM 316A | 0.006 | 0.007 | (0.0003) | . | 0.0017 | 0.064 | 0.0052 | (0.0001) | . | 0.006 | (0.003) | . | 31 mm Ø x 2 or 18 mm |
| 13X NSA1E | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm last |
| VS LG63 | 0.45 | . | . | . | . | . | . | . | . | . | . | . | ~47 mm Ø x ~30 mm |
| KUT S25 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 18 or 40 mm |
| CT 305 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 20-25 mm |
| SRM 1171 | . | . | . | . | . | . | . | . | . | . | . | . | 31 mm Ø x 19 mm |
| BS 9841 | <(0.006) | (0.003) | 0.0026 | 25(pre-17025) | . | . | (0.011) | (0.001) | (0.006) | 0.006 | . | (0.002) | 44 mm Ø x ~7 or 19+ mm |
| NCS HS28744 | 0.012 | 0.0037 | 0.0006 | . | . | . | . | 0.0005 | . | 0.0034 | . | . | 38 mm Ø x 35 mm |
| SS 465/1 | 0.026 | . | . | . | . | . | . | <(0.001) | . | . | . | . | 38 mm Ø x 19 mm |
| BS 192A | 0.98 | (0.0035) | (0.0003) | . | (0.0006) | . | (0.0006) | . | . | 0.008 | 25(pre-17025) | . | 38 mm Ø x ~7 or 19+ mm |
| IMZ 152 | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| VS LG71 | 0.072 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| IARM 7C | 0.017 | . | 0.0027 | . | . | . | 0.0021 | (0.0001) | . | 0.0020 | (0.002) | (0.001) | 31 mm Ø x 2 or 18 mm Mg:15ppm |
| CT 304 | . | . | . | . | . | . | . | <0.001 | . | 0.017 | . | . | 30-35 mm Ø x 20-25 mm Ag: 7ppm |
| BS 82E | 0.006 | . | 0.0024 | . | 0.0014 | . | . | . | . | 0.006 | . | . | 38 mm Ø x ~7 or 19+ mm |
| 13X 31008A | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~15 mm |
| KUT H7/1 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 18 or 40 mm |
| BS 321A | 0.038 | (0.006) | (0.0005) | . | (0.0002) | . | 0.0013 | . | . | 0.010 | (0.002) | . | 38 mm Ø x 19 mm last |
| CT 316 | . | . | . | . | . | . | . | 0.001 | . | 0.006 | . | . | 30-35 mm Ø x 20-25 mm Ag: 5ppm |
| VS LG36/5 | 0.080 | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~25 mm |
| CT X52353 | . | . | . | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 20-25 mm last |
| 13X NSB2D | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| 13X 17004A | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm last |
| BS 9842 | 0.014 | (0.002) | 0.0025 | . | 0.0010 | . | (0.0044) | . | . | 0.005 | 25(pre-17025) | . | 38 mm Ø x ~7 or 19+ mm |
| BS 82D | (0.002) | . | 0.0040 | . | 0.0007 | . | 0.007 | . | . | 0.004 | . | last | 38 mm Ø x ~7, 11, or ~15 mm |
| 13X 30908A | 0.0035 | . | 0.0027 | . | (0.0005) | . | . | . | . | . | . | . | ~38 mm Ø x ~15 mm |
| SRM 1172 | . | . | . | . | . | . | . | . | . | . | <0.001 | . | 32 mm Ø x 19 mm |
| BS 83D | 0.004 | . | (0.0003) | . | (0.0003) | . | 0.0069 | . | . | 0.006 | . | . | 38 mm Ø x ~12 mm last of stock |
| VS LG82 | 0.076 | . | . | . | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| BS 87F | 0.004 | 0.005 | (0.0006) | . | 0.0007 | . | 0.005 | . | . | 0.004 | . | . | 41 mm Ø x ~7 or 19+ mm |
| IARM 3E * | (0.004) | (0.004) | 0.0004 | * Provisional Analysis | . | . | 0.0046 | (0.0005) | . | 0.008 | (0.005) | (0.002) | 31 mm Ø x 2 or 18 mm |
| 13X 19001B | . | . | . | . | . | . | . | . | . | . | (0.019) | . | 40 mm Ø x 15 mm |
| BS 86F | (0.007) | (0.003) | 0.0026 | . | (0.001) | . | . | (0.001) | . | 0.004 | . | . | 44 mm Ø x ~7 or 19+ mm |
| DSZU C017 | 0.28 | . | . | . | 0.0031 | . | . | . | . | . | . | . | 40 mm Ø x 25 mm |
| 13X 12854L | . | . | 0.0076 | . | . | . | . | . | . | . | (0.06) | . | 40 mm Ø x 15 mm |
| IARM 2H * | (0.004) | (0.008) | 0.0004 | * Provisional Analysis | (0.0005) | . | (0.006) | . | (0.002) | 0.011 | (0.007) | (0.004) | 31 mm Ø x 2 or 18 mm |
| BS 347B | 0.002 | (0.003) | 0.0036 | . | . | . | 0.005 | . | . | 0.006 | <(0.004) | . | 38 mm Ø x ~7 or 19+ mm |
| BS 347A | (0.002) | (0.003) | (0.0004) | . | (0.0002) | . | 0.0047 | . | . | 0.007 | <(0.004) | . | 38 mm Ø x ~7 or 19+ mm |
| BS 188A | 0.19 | . | 0.0065 | . | . | . | 0.0012 | <0.001 | . | 0.002 | . | . | 38 mm Ø x ~7 mm last of stock |

| Number | Al | As | B | Bi | Ca | Ce | O | Pb | Sb | Sn | Ta | Zr | Units |
|--------|----|----|---|----|----|----|---|----|----|----|----|----|-------|
|--------|----|----|---|----|----|----|---|----|----|----|----|----|-------|

STAINLESS STEEL WITH C < 0.05 %

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= Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties analysis listed in mass %

Table with columns: #, Number, C, Mn, P, S, Si, Cu, Ni, Cr, Co, Mo, N, Nb, Ti, V, W. Rows include various stainless steel grades like ECRM 269-1D, BS 851, IARM 51, etc.

Table with columns: #, Number, C, Mn, P, S, Si, Cu, Ni, Cr, Co, Mo, N, Nb, Ti, V, W. Rows include various stainless steel grades like 13X 32900A, 13X 31603A, 13X NSA8A, etc.

RM TRACE ELEMENTS IN STAINLESS STEEL

Table with columns: Number, As, Pb, Sb, Sn, Zn, C, Mn, P, Si, Cu, Ni, Cr, Mo, N, B, Ca, Ti, V. Rows include grades like DSZU C25, DSZU C35, DSZU C22, etc.

STAINLESS STEEL WITH C < 0.05 %

CONTINUED FROM THE PREVIOUS PAGE

analysis listed in mass %

| Number | Al | As | B | Ca | O | Pb | Sb | Sn | Ta | Units |
|---------------|---------|---------|----------|-----------|----------|-----------|----------|----------|----------|---|
| ECRM 269-1D | . | 0.0061 | . | . | . | . | . | 0.0099 | . | 35 mm Ø x 25 mm |
| BS 85D | 0.13 | 0.006 | 0.0006 | 0.0004 | 0.0014 | 0.0004 | 0.001 | (0.006) | . | 38 mm Ø x 19+ mm |
| IARM 51 * | (0.004) | (0.006) | 0.0006 | (0.0002) | 0.0059 | . | (0.002) | 0.0080 | (0.006) | 31 mm Ø x 2 or 18 mm * Provisional Analysis |
| ECRM 269-1D | 0.199 | . | 0.0044 | . | . | . | . | 0.111 | . | 38 mm Ø x 30 mm |
| IMZ 150A | 0.022 | . | . | . | . | . | . | . | . | 40 mm Ø x 40 mm |
| IARM 5H * | (0.004) | (0.007) | 0.0009 | <0.002 | (0.006) | . | (0.002) | 0.011 | (0.003) | 31 mm Ø x 2 mm * Provisional Analysis |
| 13X 32100A | 0.0247 | . | 0.0025 | . | . | . | . | 0.0115 | . | ~38 mm Ø x ~15 mm |
| BS 188B | 0.168 | 0.0045 | 0.0047 | (0.00003) | 0.0006 | (0.0001) | (0.0006) | 0.0051 | . | 38 mm Ø x ~7 or 19+ mm Fe: 55.8 17025 |
| BS 303 | 0.0019 | . | 0.0013 | (0.0015) | 0.0058 | . | (0.002) | 0.0091 | . | 44 mm Ø x ~7 or 19+ mm 17025 Fe:[70.7] |
| IARM 4E | 0.004 | (0.005) | 0.0011 | . | 0.0021 | . | . | 0.0060 | 0.005 | 31 mm Ø x 2 or 18 mm |
| CZ SL-3A | 0.007 | . | 0.002 | . | . | . | . | 0.006 | . | ~39 mm Ø x 25 mm |
| KUT S15 | . | . | . | . | . | . | . | . | . | 30-35 mm Ø x 18 or 40 mm |
| 13X 14216P | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| IARM 8G * | 0.0026 | (0.007) | 0.001 | <0.0005 | 0.0023 | <0.0005 | (0.01) | 0.011 | (0.005) | 31 mm Ø x 2 or 18 mm * Provisional Analysis |
| VS LG70 | 0.029 | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| BS 316C | (0.004) | 0.0054 | (0.0003) | (0.0003) | 0.0055 | (0.001) | 0.0014 | 0.0052 | (0.01) | 38 mm Ø x ~7 mm 17025 Fe:[68.4] last |
| NILAB 500HA D | . | . | . | . | . | . | . | . | . | 38 mm Ø x 20 mm |
| 13X 12538J | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| NCS HS41751 | (0.004) | . | . | . | . | (0.001) | . | . | . | 38 mm Ø x 35 mm |
| NCS HS28741 | . | 0.0035 | . | . | . | 0.0001 | . | 0.0051 | . | 38 mm Ø x 35 mm |
| BS 321C | 0.044 | (0.004) | (0.0005) | (0.0001) | (0.0011) | . | . | 0.006 | . | 38 mm Ø x ~7 or 19+ mm |
| IRSID 1821 | . | . | . | . | . | . | . | . | . | 47 mm x 47 mm x 30 mm |
| ECRM 292-1D | (0.002) | (0.008) | . | (0.0006) | . | . | . | . | (0.001) | 38 mm Ø x 25 or 30 mm |
| 13X 66286A | 0.193 | . | 0.0044 | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| BS 184A | 1.00 | . | (0.0004) | (0.0003) | (0.0003) | . | . | (0.002) | (0.002) | 38 mm Ø x ~7 or 19+ mm |
| IARM 21C | 1.07 | . | 0.0004 | . | 0.0004 | . | . | 0.005 | (0.002) | 31 mm Ø x 2 or 18 mm |
| SS 462/1 | . | . | . | . | . | . | . | . | . | 38 mm Ø x 19 mm |
| SRM C1151a | . | . | . | . | . | 0.0039 | . | . | . | 32 mm Ø x 19 mm |
| BS 9812 | (0.002) | (0.005) | (0.0003) | 0.0012 | (0.007) | . | . | 0.004 | . | 50 mm Ø x ~7 or 19+ mm 25(pre-17025) |
| HRT FE2014-H | . | . | . | . | . | . | . | . | . | 35mm Ø x 20 mm |
| BS 317L | (0.005) | (0.003) | 0.0013 | (0.001) | 0.007 | . | . | 0.005 | . | 37 mm Ø x ~7 or 19+ mm |
| VS LG75 | 0.113 | . | . | . | . | . | . | . | . | ~45 mm Ø x ~28 mm |
| BS 9811 | (0.003) | (0.003) | (0.0003) | 0.0014 | (0.0060) | . | . | 0.004 | . | 38 mm Ø x ~7 or 19+ mm 25(pre-17025) |
| SRM 1155a | <0.01 | (0.007) | (0.002) | . | (0.003) | <0.005 | . | (0.0069) | . | 32 mm Ø x 19 mm |
| HRT FE2013-H | . | . | . | . | . | . | . | . | . | 40 mm Ø x 20 mm |
| Number | Al | As | B | Ca | O | Pb | Sb | Sn | Ta | Units |
| 13X 32900A | 0.007 | . | 0.0028 | 0.0033 | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| 13X 31603A | 0.00098 | . | 0.0011 | (0.003) | . | . | . | 0.0045 | . | ~40 mm Ø x ~15 mm |
| 13X NSA8A | . | . | . | . | . | . | . | . | . | ~44 mm Ø x ~15 mm |
| IARM 162D * | (0.003) | <0.008 | 0.0026 | <0.002 | (0.005) | . | <0.002 | 0.011 | (0.01) | 31 mm Ø x 2 or 18 mm * Provisional Analysis |
| IARM 153C * | (0.003) | (0.006) | 0.0007 | (0.003) | (0.005) | (0.001) | (0.001) | 0.010 | (0.01) | 31 mm Ø x 2 or 18 mm * Provisional Analysis |
| ECRM 297-1D | 0.0195 | 0.0040 | 1.146 | (0.0002) | . | . | . | . | . | 40 mm Ø x 30 mm |
| NCS HS28746 | 0.086 | 0.0032 | . | . | . | 0.0002 | . | 0.0065 | . | 38 mm Ø x 35 mm |
| BS 9942 | 0.004 | (0.004) | 0.0014 | 0.0014 | (0.0023) | . | . | 0.006 | . | 44 mm Ø x ~7 or 19+ mm 25(pre-17025) |
| BS 9941 | 0.004 | (0.010) | 0.0025 | (0.0003) | (0.0058) | . | . | 0.007 | . | 38 mm Ø x ~7 or 19+ mm 25(pre-17025) |
| IRSID 1820 | . | . | (0.0013) | . | . | . | . | . | . | 47 mm x 47 mm x 30 mm |
| NCS HS28742 | . | 0.0025 | . | . | . | 0.0001 | . | (0.0001) | . | 38 mm Ø x 35 mm |
| IARM 301B * | (0.006) | <0.004 | 0.003 | <0.001 | 0.007 | <0.005 | <0.001 | (0.005) | (0.003) | 31 mm Ø x 2 or 18 mm * Provisional Analysis |
| 13X 30403A | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| 13X NSA9A | . | . | . | . | . | . | . | . | . | 40 mm Ø x ~15 mm |
| SS 463/1 | . | . | 0.0022 | . | . | . | . | . | . | 38 mm Ø x 19 mm |
| BS 2205 | 0.0080 | 0.0059 | 0.0016 | 0.0014 | 0.0034 | (0.0001) | 0.0010 | 0.0050 | 17025 | 38 mm Ø x ~7 or 19+ mm Fe:[67.0] Mg:(0.0004) Zr:(0.006) |
| 13X NSA12A | 0.0169 | . | 0.0020 | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| BS 304A | 0.0028 | (0.007) | (0.0005) | . | 0.0061 | (0.0001) | (0.002) | 0.0096 | . | 38 mm Ø x ~7 or 19+ mm 17025 Fe:[70.1] |
| IARM 212D | (0.005) | (0.01) | 0.001 | (0.001) | 0.0034 | (0.001) | . | (0.003) | (0.003) | 31 mm Ø x 2 mm |
| BS 316D | (0.002) | 0.0048 | 0.0038 | (0.0008) | 0.0039 | (0.0003) | (0.002) | 0.0080 | . | 38 mm Ø x ~7 or 19+ mm 17025 Fe: 68.1 |
| BS 316E | 0.0027 | 0.0045 | 0.0036 | (0.0006) | 0.0039 | (0.0002) | (0.002) | 0.0082 | . | 38 mm Ø x ~7 or 19+ mm 17025 Fe: 68.1 |
| IARM 162C | 0.004 | (0.006) | (0.001) | (0.001) | 0.005 | (0.001) | . | 0.011 | last | 31 mm Ø x 18 mm |
| 13X FV520BA | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| HRT FE2000-H | . | . | 0.0013 | . | . | . | . | . | . | 40 mm Ø x 20 mm |
| BS 304 | 0.0022 | (0.005) | (0.0005) | (0.001) | 0.0083 | (0.0003) | (0.002) | 0.0116 | . | 38 mm Ø x ~7 or 19+ mm 17025 Fe:[70.5] |
| BS 304B * | 0.003 | 0.005 | 0.0005 | 0.0009 | 0.003 | <0.005 | . | 0.006 | . | 38 mm Ø x ~7 or 19+ mm * Provisional Analysis |
| VS LG33/5 | 0.024 | . | . | . | . | . | . | . | . | ~38 mm Ø x ~25 mm |
| NCS HS28745 | . | 0.0055 | . | . | . | 0.0001 | . | 0.0073 | . | 38 mm Ø x 35 mm |
| 13X 31603B | 0.009 | . | . | 0.0022 | . | . | . | 0.0057 | . | ~30 mm Ø x ~20 mm |
| BS 179C | 0.0078 | 0.0034 | 0.0015 | (0.0003) | 0.0038 | (0.00002) | 0.0005 | 0.0018 | (0.0006) | 38 mm Ø x ~7 or 19+ mm 17025 Fe:[61.6] |
| BS 179B | 0.0070 | 0.0036 | 0.0015 | (0.0004) | 0.0037 | (0.00002) | 0.0005 | 0.0019 | (0.0006) | 38 mm Ø x ~7 or 19+ mm 17025 Fe:[61.5] |
| ECRM 287-1D | . | . | 0.924 | . | . | . | . | . | . | 38 mm Ø x 25 or 30 mm |
| 13X 34700A | 0.023 | . | 0.0008 | . | . | . | . | . | . | ~38 mm Ø x ~15 mm |
| 13X NSA11A | (0.021) | . | . | . | . | . | . | . | . | ~38 mm Ø x ~15 mm |
| CZ SL-2A | 0.005 | 0.008 | 0.002 | . | . | . | . | 0.01 | . | ~39 mm Ø x 25 mm |
| IARM 319A * | 0.011 | (0.005) | (0.002) | . | (0.003) | . | . | 0.005 | (0.003) | 31 mm Ø x 2 mm * Provisional Analysis |
| ECRM 298-1D | 0.0285 | . | 0.0021 | . | . | 0.00008 | . | . | . | 38 mm Ø x 25 mm Fe: 63.38 |
| SS 466/2 | 0.0018 | 0.0020 | 0.0039 | . | . | . | . | . | . | 38 mm Ø x 19 mm |
| BS SS3951 | 0.002 | . | (0.0006) | 0.0005 | 0.0075 | . | . | 0.007 | . | 41 mm Ø x ~7 or 19+ mm |
| IARM 163E * | 0.0039 | (0.008) | 0.0019 | (0.002) | 0.007 | . | (0.002) | 0.012 | . | 31 mm Ø x 2 or 18 mm * Provisional Analysis |
| HRT FE2016-H | . | . | . | . | . | . | . | . | . | 30 mm Ø x 20 mm |
| SS 461/1 | 0.069 | . | . | . | . | . | . | . | . | 38 mm Ø x 19 mm |
| BS SS1961 | 0.067 | 0.004 | 0.0022 | . | (0.002) | . | . | 0.004 | . | 38 mm Ø x 12 mm last |
| BS SS1962 | 0.062 | 0.002 | 0.0018 | . | (0.001) | . | . | 0.004 | . | 38 mm Ø x ~7 or 19+ mm |
| CT ISO123A | 0.027 | . | 0.0021 | . | . | . | . | . | . | 30-35 mm Ø x 20-25 mm Fe: 74.72 |
| ECRM 284-3D | . | 0.00131 | 0.00020 | . | . | . | . | 0.00074 | . | 39 mm Ø x 28 mm |

| Number | Al | As | B | Ca | O | Pb | Sb | Sn | Ta | Units |
|--------|----|----|---|----|---|----|----|----|----|-------|
|--------|----|----|---|----|---|----|----|----|----|-------|

STAINLESS STEEL XRF SETS

AVAILABLE IN SETS OR INDIVIDUALLY

-7 mm discs

Main table listing stainless steel XRF sets with columns for Grade, Number, C, Mn, P, S, Si, Cu, Ni, Cr, Co, Mo, N, Nb, V, W. Includes sub-sections for SET BS SS-17 and SET BS 400-SS-16.

Header row for the second table: Grade, Number, C, Mn, P, S, Si, Cu, Ni, Cr, Co, Mo, N, Nb, V, W.

Table listing additional alloying elements (Al, B, Ca, Se, Sn, Ti) for various stainless steel grades, including SET BS SS-17 and SET BS 400-SS-16.

Header row for the final table: Number, Al, B, Ca, Se, Sn, Ti.

HIGH ALLOY STEEL

= Class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Co | Mo | N | Nb | Ti | V |
|-------------|---------------|----------|-------------|--------|------------|----------|--------------|---------|---------|-----------|---------|--------------------------------|---------|----------|----------|------------------------|
| 3 | CZ SP-8B | 2.37 | 0.86 | 0.022 | 0.012 | 1.40 | 0.075 | 2.72 | 37.6 | 0.13 | 0.075 | 0.10 | . | 0.04 | 0.13 | 0.13 |
| 2 | CZ SP-4C | 0.34 | 1.66 | 0.020 | 0.010 | 1.75 | 0.056 | 37.1 | 22.1 | 0.011 | 0.065 | 0.105 | (0.04) | 0.022 | 0.031 | 0.059 |
| 3 | CZ SP-4B | 0.31 | 1.36 | 0.027 | 0.008 | 1.51 | 0.04 | 35.8 | 20.8 | 0.025 | . | 0.02 | . | . | . | . |
| 1 | IARM 242A | 0.24 | 0.018 | 0.002 | 0.0004 | 0.02 | 0.007 | 11.1 | 3.00 | 0.004 | 13.5 | 0.00 | 0.0003 | 0.004 | 0.009 | 0.01 |
| 3 | CZ SL-6A | 0.17 | 0.24 | 0.015 | 0.029 | 0.23 | 0.22 | 32.3 | 6.8 | 0.26 | 0.69 | 0.13 | . | 0.36 | 1.8 | 0.15 |
| 2 | CT 972 | 0.098 | 0.59 | 0.031 | 0.027 | 0.41 | 0.13 | 35.84 | 0.06 | 0.17 | 0.44 | 0.11 | . | 0.09 | 0.36 | 0.06 |
| 1 | SRM 1246 | 0.082 | 0.91 | 0.018 | 0.001 | 1.18 | 0.49 | 30.8 | 20.1 | 0.30 | 0.076 | 0.36 | (0.018) | (0.09) | 0.32 | (0.040) |
| 2 | 23X DS5E | 0.080 | 1.04 | . | . | 0.98 | 0.30 | 36.6 | 8.64 | 0.083 | 0.50 | 0.30 | . | . | 0.17 | . |
| 1 | BS 800 | 0.073 | 0.789 | 0.0161 | 0.00036 | 0.560 | 0.323 | 31.29 | 19.90 | 0.279 | 0.054 | 0.195 | 0.0112 | 0.0183 | 0.469 | 0.071 |
| 1 | NCS HS41747 | 0.071 | 0.807 | 0.015 | 0.0006 | 0.36 | 0.038 | 32.27 | 20.72 | 0.299 | 0.050 | 0.297 | . | . | 0.49 | . |
| 3 | HH 5157A | 0.067 | 0.95 | 0.012 | 0.003 | 0.43 | 0.33 | 29.31 | 21.48 | 0.45 | . | . | . | . | 0.55 | . |
| 2 | DSZU C103 | 0.064 | 0.287 | 0.027 | (0.006) | 0.34 | 0.066 | 0.21 | 27.04 | 5.28 | . | 0.013 | . | (0.002) | 0.29 | 0.035 |
| 2 | 23X 8004E | 0.06 | 0.70 | . | . | 0.53 | 0.30 | 31.8 | 19.72 | 0.31 | 0.53 | 0.33 | . | . | 0.34 | . |
| 2 | 23X DS2E | 0.06 | 1.00 | . | . | 2.07 | 0.30 | 37.4 | 17.81 | 0.04 | 0.48 | 0.30 | . | . | 0.17 | . |
| 2 | DSZU C104 | 0.055 | 0.838 | 0.035 | 0.019 | 0.78 | 0.199 | 0.51 | 29.77 | 6.58 | . | 0.18 | . | 0.52 | 0.76 | 0.22 |
| 1 | IARM 24B | 0.053 | 0.82 | 0.009 | 0.0010 | 0.28 | 0.052 | 35.86 | 0.121 | 0.002 | 0.036 | 0.011 | 0.0017 | <0.01 | 0.002 | <0.005 |
| 1 | SS 479 | 0.0529 | 0.680 | 0.0029 | 0.0030 | 0.553 | 0.0052 | 24.87 | 19.922 | (0.013) | (0.002) | (0.003) | 0.0057 | 0.625 | 0.0306 | 0.0052 |
| 2 | CT 971 | 0.052 | 0.20 | 0.038 | 0.017 | 0.27 | 0.02 | 36.03 | 0.22 | 0.25 | 0.17 | 0.23 | . | 0.04 | 0.48 | 0.05 |
| 2 | 23X DS4E | 0.05 | 1.02 | . | . | 2.01 | 0.30 | 37.1 | 16.83 | 0.037 | 0.48 | 0.29 | . | . | 0.20 | . |
| 1 | SRM 1230 | 0.044 | 0.64 | 0.023 | 0.0007 | 0.43 | 0.14 | 24.2 | 14.8 | 0.24 | 0.15 | 1.18 | . | . | 2.12 | 0.23 |
| 3 | HH 5179A | 0.042 | 0.87 | 0.012 | 0.003 | 0.38 | 0.26 | 34.13 | 22.20 | 0.30 | . | . | . | . | 0.46 | . |
| 2 | BS 186A | 0.040 | 0.72 | 0.008 | 0.0053 | 0.19 | 0.016 | 35.86 | 0.16 | (0.001) | 0.028 | 0.0032 | 0.0026 | (<0.002) | (<0.003) | 0.0012 |
| 2 | DSZU C102 | 0.038 | 0.265 | 0.025 | (0.006) | 1.27 | 0.031 | 0.19 | 24.41 | 4.98 | 0.022 | . | . | (0.005) | 0.25 | 0.089 |
| 3 | HH 5196A | 0.036 | 1.05 | 0.011 | 0.002 | 0.45 | 0.24 | 31.46 | 20.66 | 0.31 | . | . | . | . | 1.13 | . |
| 3 | HH 5300A | 0.026 | 0.86 | 0.013 | 0.003 | 0.35 | 0.28 | 33.56 | 18.18 | 0.45 | . | . | . | . | 0.54 | . |
| 1 | 13X 14934Q | 0.0254 | 0.254 | 0.024 | 0.0288 | 0.502 | . | 17.60 | 0.388 | 0.15 | 9.03 | 4.22 | 0.0132 | . | 0.694 | . |
| 1 | SRM 1158 | 0.025 | 0.468 | 0.004 | 0.005 | 0.194 | 0.039 | 36.03 | 0.062 | . | 0.008 | 0.010 | . | . | 0.31 | 0.001 |
| 2 | DSZU C101 | 0.024 | 0.198 | 0.013 | (0.006) | 0.32 | 0.055 | 0.34 | 21.77 | 5.06 | . | 0.026 | . | (0.011) | 0.31 | 0.023 |
| 1 | IARM 302B * | 0.022 | 0.93 | 0.026 | 0.0007 | 0.56 | 0.70 | 17.7 | 20.3 | 0.016 | 0.072 | 6.2 | 0.182 | (0.014) | (0.005) | 0.051 |
| 2 | BS 187A | 0.022 | 0.52 | 0.017 | 0.0025 | 0.26 | 3.10 | 33.06 | 19.75 | (0.009) | 0.32 | 2.06 | 0.0157 | 0.57 | (0.002) | 0.10 |
| 2 | CT IS0139A | 0.021 | 1.00 | 0.001 | 0.0005 | 0.015 | <0.001 | 41.69 | 0.004 | . | 0.066 | <0.001 | . | . | . | . |
| 1 | SRM 1247 | 0.021 | 0.38 | 0.018 | 0.002 | 0.32 | 1.75 | 43.5 | 23.4 | 0.060 | 0.089 | 2.73 | (0.017) | (0.46) | 0.75 | (0.048) |
| 2 | BS 187C | 0.020 | 0.77 | 0.024 | <0.002 | 0.77 | 3.17 | 32.93 | 20.16 | 0.10 | 0.096 | 2.07 | 0.022 | 0.36 | (0.001) | 0.059 |
| 2 | CT IS0141A | 0.0199 | 0.31 | 0.001 | <0.001 | 0.28 | <0.001 | 47.16 | <0.001 | 0.001 | 0.030 | <0.001 | <0.001 | . | 0.14 | 0.024 |
| 1 | 13X 31254A | 0.0185 | 0.590 | 0.0191 | 0.0011 | 0.400 | 0.575 | 18.34 | 20.11 | 0.0134 | 0.125 | 6.13 | 0.205 | . | . | 0.0595 |
| 2 | CT IS0136A | 0.018 | 0.44 | 0.001 | <0.001 | 0.198 | <0.001 | 44.92 | 0.002 | . | 0.009 | <0.001 | . | . | . | . |
| 1 | ECRM 299-1D | 0.0154 | 0.2678 | 0.0152 | 0.00022 | 0.299 | 0.0382 | 0.172 | 22.32 | 5.33 | 0.0187 | 0.0186 | 0.0198 | . | 0.1289 | 0.0329 |
| 1 | BS 189A | 0.0147 | 0.639 | 0.019 | (0.001) | 0.30 | 0.184 | 23.8 | 20.4 | 0.0129 | 0.010 | 6.04 | 0.198 | (0.13) | 0.0065 | 0.054 |
| 1 | NILAB 501HA D | 0.014 | 0.858 | 0.020 | 0.003 | . | 0.761 | 17.69 | 19.79 | 0.003 | 0.159 | 6.14 | 0.2243 | 0.007 | . | 0.044 |
| 1 | KUT S22 | 0.014 | 0.34 | 0.009 | 0.008 | 0.61 | (0.02) | 28.2 | 1.00 | . | . | 0.82 | . | . | 0.13 | . |
| 1 | NCS HS41753 | 0.013 | 1.45 | 0.025 | 0.0057 | 0.42 | 1.51 | 24.40 | 19.27 | (0.012) | . | 4.29 | 0.020 | (0.012) | (0.0013) | 0.093 |
| 1 | ECRM 379-1D | 0.0121 | 1.804 | 0.0166 | 0.0006 | 0.393 | 0.984 | 30.83 | 26.79 | (0.00246) | 0.0390 | 3.290 | 0.0550 | (0.0028) | (0.0014) | 0.0663 |
| 2 | CT IS0124A | 0.011 | 0.73 | 0.007 | 0.006 | 0.40 | 0.015 | 48.07 | 0.079 | . | 0.012 | 0.009 | . | . | 0.106 | . |
| 1 | 13X 14935T | 0.0105 | 0.494 | 0.036 | 0.055 | 0.441 | . | 18.96 | 0.745 | (0.007) | 7.17 | 5.61 | 0.0102 | . | 0.106 | . |
| 1 | 14X 93603A | 0.0101 | 0.339 | 0.0050 | 0.0045 | 0.153 | 0.0460 | 35.79 | 0.024 | 0.0404 | 0.0974 | 0.0145 | 0.0057 | . | 0.0011 | . |
| 1 | SRM 1159 | 0.007 | 0.30 | 0.003 | 0.003 | 0.32 | 0.038 | 48.2 | 0.06 | . | 0.022 | 0.01 | . | . | 0.03 | (0.003) |
| 1 | IARM 98B | 0.007 | 0.18 | 0.002 | 0.0007 | 0.17 | 0.028 | 29.4 | 0.012 | 0.07 | 17.0 | 0.010 | 0.0024 | 0.002 | 0.026 | (0.0008) |
| 1 | BS 160A | 0.0064 | 0.180 | 0.0007 | (0.0002) | 0.158 | 0.026 | 29.6 | 0.0138 | 0.088 | 17.0 | 0.0100 | 0.0026 | 0.0014 | 0.026 | 0.0008 |
| 3 | CZ SP-7A | 0.006 | 0.08 | 0.007 | 0.010 | 0.036 | 0.08 | 47.3 | 0.01 | 0.003 | 0.003 | 0.01 | . | . | 0.004 | 0.001 |
| 1 | IARM 99B | 0.005 | 0.036 | 0.005 | 0.0005 | 0.022 | 0.094 | 18.46 | 0.081 | 0.095 | 9.24 | 4.88 | 0.0011 | (0.005) | 0.74 | 0.012 |
| 1 | BS 161A | 0.004 | 0.031 | 0.004 | 0.0007 | 0.032 | 0.22 | 18.40 | 0.12 | 0.14 | 9.22 | 4.82 | (0.002) | (0.004) | 0.65 | 0.031 |
| 2 | CT IS0138A | 0.002 | 0.48 | 0.001 | 0.006 | <0.010 | <0.001 | 39.98 | <0.001 | . | 0.64 | <0.001 | . | . | 0.34 | . |
| 1 | IARM 326A | (0.002) | 0.003 | 0.003 | 0.011 | 0.029 | (0.002) | 0.037 | (0.002) | (0.003) | 48.4 | (0.002) | 0.0004 | 0.038 | (0.002) | 1.94 |
| 1 | ECRM 285-2D | 0.0018 | 0.0168 | 0.0053 | 0.0025 | 0.0117 | 0.0094 | 18.07 | 0.0236 | 0.1067 | 7.76 | 4.99 | 0.0007 | . | 0.520 | . |
| Number | As | B | Ca | Ce | Mg | O | Se | Sn | Ta | W | Zr | Units | | | | |
| CZ SP-8B | 0.05 | 0.03 | . | . | . | . | . | 0.06 | . | 0.05 | . | ~39 mm Ø x 25 mm | | | | |
| CZ SP-4C | . | . | . | . | . | . | . | . | . | (0.01) | . | ~39 mm Ø x 25 mm | | | | |
| CZ SP-4B | . | . | . | . | . | . | . | . | . | . | . | ~39 mm Ø x 25 mm last of stock | | | | |
| IARM 242A | . | (0.0005) | . | . | . | 0.0006 | . | (0.001) | 0.008 | <0.01 | . | 31 mm Ø x 2 or 18 mm | | | | |
| CZ SL-6A | 0.004 | . | . | . | . | . | . | 0.006 | . | 1.74 | . | ~39 mm Ø x 25 mm | | | | |
| CT 972 | . | . | . | . | Pb: 0.0014 | 0.28 | 0.0008 | . | . | . | . | 30-35 mm Ø x 20-25 mm | | | | Ag: 0.005 |
| SRM 1246 | (0.004) | <0.001 | Ga: (0.004) | . | . | (0.003) | . | . | . | (0.004) | . | 35 mm Ø x 19 mm | | | | Fe: 46.2 |
| 23X DS5E | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm | | | | |
| BS 800 | 0.0036 | 0.0032 | 0.00030 | . | (0.002) | (0.0009) | <u>17025</u> | 0.0026 | (0.001) | 0.0056 | 0.0018 | 44 mm Ø x ~7 or 19+ mm | | | | Fe:46.0 Pb, Sb in ppm |
| NCS HS41747 | . | . | . | . | . | . | . | . | . | . | . | 38 mm Ø x 30 mm | | | | |
| HH 5157A | . | . | . | . | . | . | . | . | . | . | . | 44 mm Ø x 12 mm | | | | sale price |
| DSZU C103 | . | . | . | . | . | . | . | . | . | (0.004) | (0.001) | 38 mm Ø x 18 mm | | | | |
| 23X 8004E | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm | | | | |
| 23X DS2E | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm | | | | |
| DSZU C104 | . | . | . | . | . | . | . | . | (0.008) | 0.28 | . | 36 mm Ø x 18 mm | | | | |
| IARM 24B | <0.005 | (0.001) | . | . | . | 0.003 | 0.19 | 0.0018 | <0.005 | <0.04 | <0.005 | 31 mm Ø x 2 or 18 mm | | | | Fe: 62.6 |
| SS 479 | (0.002) | <0.0005 | . | . | . | . | . | . | . | . | . | 38 mm Ø x 19 mm | | | | |
| CT 971 | . | . | . | . | Pb: 0.015 | 0.20 | 0.026 | . | . | . | . | 30-35 mm Ø x 20-25 mm | | | | Ag: 0.026 |
| 23X DS4E | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm | | | | |
| SRM 1230 | . | 0.0055 | . | . | . | . | . | . | . | . | . | 32 mm Ø x 19 mm | | | | |
| HH 5179A | . | . | . | . | . | . | . | . | . | . | . | 41 mm Ø x 12 mm | | | | sale price |
| BS 186A | . | . | . | . | . | . | 0.229 | (0.002) | . | (0.01) | . | 38 mm Ø x ~7 or 19+ mm | | | | |
| DSZU C102 | . | . | . | . | . | . | . | . | (0.020) | (0.003) | . | 38 mm Ø x 18 mm | | | | |
| HH 5196A | . | . | . | . | . | . | . | . | . | . | . | 44 mm Ø x 12 mm | | | | sale price |
| HH 5300A | . | . | . | . | . | . | . | . | . | . | . | 41 mm Ø x 12 mm | | | | sale price |
| 13X 14934Q | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm | | | | |
| SRM 1158 | . | . | . | . | . | . | . | . | . | . | . | 32 mm Ø x 19 mm | | | | |
| DSZU C101 | . | . | . | . | . | . | . | . | . | (0.011) | (0.003) | 38 mm Ø x 18 mm | | | | |
| IARM 302B * | . | 0.0027 | (0.004) | . | (0.001) | (0.003) | . | 0.0071 | (0.01) | (0.028) | (0.001) | 31 mm Ø x 2 or 18 mm | | | | * Provisional Analysis |
| BS 187A | . | 0.0022 | (0.025) | . | (0.0029) | 0.0029 | . | 0.003 | <0.002 | | | | | | | |

RM HIGH ALLOY STEEL XRF SET

Part Number: BS HAS-12

AVAILABLE INDIVIDUALLY

~7 mm discs

| Number Grade | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | B | Co | N | Nb | Sn | Ti | V | W | O |
|-----------------------------------|--------|-------|-------|---------|------|-------|-------|-------|--------|---------|----------|-------|--------|----------|----------|----------|--------|---------|--------|
| BS 189A AL6XN CRM 17025 | 0.0147 | 0.639 | 0.019 | (0.001) | 0.30 | 0.184 | 23.8 | 20.4 | 6.04 | 0.0129 | (0.0002) | 0.100 | 0.198 | (0.13) | 0.0035 | 0.0065 | 0.054 | 0.037 | 0.0024 |
| BS 179A Alloy 255 | 0.017 | 1.04 | 0.021 | 0.001 | 0.44 | 1.94 | 5.84 | 25.45 | 3.24 | (0.009) | (0.001) | 0.58 | 0.184 | 0.030 | 0.005 | 0.006 | 0.070 | (0.2) | . |
| BS 183 Greek Ascology | 0.16 | 0.43 | 0.020 | 0.013 | 0.33 | 0.068 | 2.00 | 12.81 | 0.35 | . | . | 0.029 | . | (0.003) | (0.0016) | 0.003 | 0.12 | 2.77 | . |
| BS 186A Invar 36 | 0.040 | 0.72 | 0.008 | 0.0053 | 0.19 | 0.016 | 35.86 | 0.16 | 0.0032 | (0.001) | . | 0.028 | 0.0026 | (<0.002) | (0.002) | (<0.003) | 0.0012 | (0.01) | . |
| BS 187A Carp. 20Cb3 | 0.022 | 0.52 | 0.017 | 0.0025 | 0.26 | 3.10 | 33.06 | 19.75 | 2.06 | (0.009) | 0.0022 | 0.32 | 0.0157 | 0.57 | 0.003 | (0.002) | 0.10 | (0.02) | . |
| BS 188A A-286 | 0.050 | 0.139 | 0.015 | 0.0049 | 0.15 | 0.099 | 24.61 | 14.04 | 1.10 | 0.19 | 0.0065 | 0.18 | 0.0029 | 0.050 | 0.002 | 2.21 | 0.24 | 0.055 | . |
| BS 190 Nitronic® 40 | 0.022 | 9.72 | 0.015 | 0.001 | 0.46 | 0.072 | 6.74 | 19.57 | 0.15 | (0.004) | 0.0005 | 0.044 | 0.255 | (0.004) | 0.003 | 0.002 | 0.11 | 0.015 | 0.0045 |
| BS 180A Nitronic® 50 | 0.018 | 5.05 | 0.012 | 0.001 | 0.32 | 0.067 | 13.19 | 21.09 | 2.04 | 0.012 | (0.0024) | 0.039 | 0.334 | 0.20 | (0.002) | (0.002) | 0.20 | 0.02 | 0.003 |
| BS 181A Nitronic® 60 | 0.071 | 8.16 | 0.019 | 0.001 | 4.03 | 0.18 | 8.15 | 16.52 | 0.21 | 0.022 | 0.0009 | 0.072 | 0.148 | 0.017 | 0.005 | 0.007 | 0.094 | 0.04 | 0.0010 |
| BS 193 18Cr-12Mn | 0.104 | 12.11 | 0.018 | 0.002 | 0.66 | 0.088 | 1.82 | 18.48 | 0.21 | (0.003) | 0.0007 | 0.028 | 0.37 | 0.014 | 0.004 | 0.003 | 0.107 | (0.007) | . |
| BS 182 17Cr-15Mn | 0.037 | 15.09 | 0.022 | (0.003) | 0.46 | 0.56 | 1.11 | 16.67 | 0.99 | . | . | 0.032 | (0.40) | (0.005) | (0.003) | (0.003) | 0.059 | (0.01) | . |
| BS 191 16Cr-6Mn-4Si | 0.098 | 5.71 | 0.024 | 0.023 | 3.66 | 0.33 | 5.34 | 16.33 | 0.36 | (0.002) | (0.0006) | 0.11 | 0.117 | 0.024 | (0.006) | 0.012 | 0.083 | 0.033 | . |

| Number Grade | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | B | Co | N | Nb | Sn | Ti | V | W | O |
|--------------|---|----|---|---|----|----|----|----|----|----|---|----|---|----|----|----|---|---|---|
|--------------|---|----|---|---|----|----|----|----|----|----|---|----|---|----|----|----|---|---|---|

CRM CAST IRON SETS

AVAILABLE IN SETS ONLY, as grouped

| Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Mo | Sn | Ti | V | Ce | La | Mg | N |
|-----------------|------|-------|-------|--------|-------|-------|-------|-------|--------|---------|--------|--------|--------|---------|---------|--------|--------|
| 30 mm Ø x 28 mm | | | | | | | | | | | | | | | | | |
| NCS HS11712a-6 | 4.02 | 1.41 | 0.021 | 0.026 | 0.163 | 1.83 | 1.89 | 0.112 | 0.019 | 0.726 | 0.057 | 0.238 | 0.509 | <0.0001 | <0.0001 | 0.104 | 0.013 |
| NCS HS11712a-7 | 3.94 | 1.38 | 0.085 | 0.0048 | 0.918 | 1.10 | 1.37 | 1.05 | 0.214 | 0.168 | 0.134 | 0.114 | 0.390 | <0.0001 | <0.0001 | 0.056 | 0.0063 |
| NCS HS11712a-5 | 3.52 | 0.311 | 0.420 | 0.019 | 1.17 | 0.389 | 1.03 | 0.766 | . | 0.629 | 0.013 | 0.161 | 0.324 | <0.0001 | <0.0001 | 0.021 | 0.0047 |
| NCS HS11712a-4 | 3.16 | 0.462 | 0.396 | 0.017 | 1.96 | 0.921 | 0.778 | 1.40 | 0.0073 | 0.428 | 0.024 | 0.065 | 0.166 | <0.0001 | <0.0001 | 0.025 | 0.0073 |
| NCS HS11712a-2 | 2.22 | 0.301 | 0.043 | 0.058 | 2.44 | 0.458 | 0.341 | 2.13 | 0.060 | 0.087 | 0.044 | 0.065 | 0.055 | 0.0010 | 0.010 | 0.0085 | 0.024 |
| NCS HS11712a-3 | 2.55 | 0.878 | 0.071 | 0.045 | 1.50 | 0.641 | 0.519 | 0.417 | 0.034 | 0.354 | 0.021 | 0.027 | 0.085 | 0.027 | 0.0061 | 0.024 | 0.024 |
| NCS HS11712a-1 | 1.75 | 0.080 | 0.580 | 0.119 | 3.40 | 0.025 | 0.030 | 2.48 | 0.248 | 0.031 | 0.0031 | 0.038 | 0.021 | <0.0001 | <0.0001 | 0.0006 | 0.015 |
| 30 mm Ø x 30 mm | | | | | | | | | | | | | | | | | |
| NCS HS19701-7 | 4.13 | 2.06 | 0.306 | 0.111 | 1.85 | . | 0.026 | 0.157 | . | . | 0.043 | 0.399 | 0.821 | . | . | . | . |
| NCS HS19701-6 | 3.93 | 1.46 | 0.168 | 0.124 | 0.99 | . | 0.094 | 0.387 | . | (0.112) | 0.0018 | 0.105 | 0.506 | . | . | . | . |
| NCS HS19701-5 | 3.67 | 0.596 | 0.072 | 0.117 | 0.183 | . | 0.502 | 0.171 | . | (0.68) | 0.0022 | 0.066 | 0.335 | . | . | . | . |
| NCS HS19701-4 | 3.70 | 0.857 | 0.087 | 0.076 | 0.451 | . | 0.032 | 0.117 | . | (0.031) | 0.0017 | 0.030 | 0.158 | . | . | . | . |
| NCS HS19701-3 | 3.29 | 1.22 | 0.045 | 0.056 | 0.689 | . | 0.046 | 0.030 | . | . | 0.009 | 0.043 | 0.071 | . | . | . | . |
| NCS HS19701-2 | 2.99 | 0.329 | 0.033 | 0.038 | 0.937 | . | 0.194 | 0.080 | . | . | 0.024 | 0.216 | 0.044 | . | . | . | . |
| NCS HS19701-1 | 2.46 | 0.072 | 0.011 | 0.019 | 0.099 | . | 0.183 | 0.511 | . | . | 0.005 | 0.0059 | 0.0090 | . | . | . | . |

RM

GRAY IRON

as cast (not chill cast)

CONTAINS FREE GRAPHITE

OES regularly requires extension of preburn time to analyze correctly

| Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | As | Co | Mo | Sb | Sn | Ti | V | mm Ø x mm H |
|--------|------|------|-------|-------|------|-------|-------|-------|-------|---------|-------|-------|----------|-------|-------|-------|-------------|
| BS 20G | 3.33 | 0.58 | 0.028 | 0.029 | 3.02 | 0.54 | 0.38 | 0.086 | 0.008 | 0.004 | 0.022 | 0.19 | (<0.001) | 0.12 | 0.012 | 0.018 | 47 x 19+ |
| BS 20W | 3.27 | 0.62 | 0.045 | 0.036 | 2.64 | 0.29 | 0.082 | 0.092 | 0.004 | 0.004 | 0.005 | 0.054 | (<0.001) | 0.086 | 0.015 | 0.007 | 47 x 13 |
| BS 20R | 3.25 | 0.62 | 0.047 | 0.034 | 2.72 | 0.35 | 0.096 | 0.094 | 0.005 | 0.004 | 0.006 | 0.053 | (<0.001) | 0.104 | 0.015 | 0.007 | 47 x 19+ |
| BS 20E | 3.24 | 0.80 | 0.042 | 0.044 | 2.29 | 0.23 | 0.156 | 0.088 | 0.006 | (0.003) | 0.006 | 0.042 | (<0.002) | 0.093 | 0.017 | 0.007 | 47 x 19+ |
| BS 20P | 3.22 | 0.63 | 0.032 | 0.044 | 2.62 | 0.067 | 0.143 | 0.079 | 0.008 | (0.004) | 0.018 | 0.033 | (<0.001) | 0.099 | 0.018 | 0.017 | 44 x 19+ |

DUCTILE / NODULAR IRON

= Class, where 1 = CRM and 2 = RM

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Ce | Co | Mg | Mo | Ti | V |
|---|-----------------|-------|-------|--------|--------|-------|--------|--------|-------|---------|--------|---------|--------------|--------|--------|--------|
| 1 | SCRM 668/13 | 3.724 | 0.712 | . | . | 1.400 | 0.751 | 0.097 | 0.962 | . | 0.0245 | . | 0.0116 | 0.0193 | 0.091 | 0.193 |
| 1 | SCRM 666/12 | 3.599 | 0.106 | . | . | 1.763 | 0.0581 | 1.709 | 0.102 | . | . | . | 0.0838 | 0.0979 | 0.1069 | 0.0486 |
| 1 | SCRM 670/19 | 3.532 | 0.324 | . | 0.0085 | 2.216 | 0.985 | 0.916 | 0.484 | . | 0.0139 | . | 0.0470 | 0.0098 | 0.109 | 0.0231 |
| 1 | BS 291DG | 3.35 | 0.456 | 0.0216 | 0.0156 | 2.32 | 0.189 | 0.170 | 0.159 | 0.0089 | . | 0.0062 | 0.042 | 0.0220 | 0.0265 | 0.013 |
| 1 | BS 286AF | 3.24 | 0.740 | 0.201 | 0.0162 | 2.03 | 0.341 | 1.360 | 0.165 | (0.009) | . | (0.004) | 0.037 | 0.258 | 0.054 | 0.151 |
| 1 | BS 286AE | 3.24 | 0.740 | 0.201 | 0.0162 | 2.03 | 0.341 | 1.360 | 0.165 | (0.009) | . | (0.004) | 0.036 | 0.258 | 0.054 | 0.151 |
| 1 | BS 286AD | 3.24 | 0.740 | 0.201 | 0.0162 | 2.03 | 0.341 | 1.360 | 0.165 | (0.009) | . | (0.004) | 0.035 | 0.258 | 0.054 | 0.151 |
| 1 | BS 286AC | 3.24 | 0.740 | 0.201 | 0.0162 | 2.03 | 0.341 | 1.360 | 0.165 | (0.009) | . | (0.004) | 0.034 | 0.258 | 0.054 | 0.151 |
| 1 | SCRM 667/13 | 3.04 | 0.222 | . | . | 2.866 | 0.497 | 1.303 | 0.294 | . | 0.110 | . | 0.070 | . | . | 0.103 |
| 1 | SCRM 669/14 | 2.955 | 0.526 | . | . | 2.201 | 0.194 | 0.473 | 0.214 | . | 0.0415 | . | 0.0224 | 0.0550 | 0.0499 | 0.532 |
| 1 | SRM C1137a | 2.86 | 0.52 | 0.087 | 0.017 | 1.15 | 0.192 | 2.17 | 0.643 | (0.007) | 0.016 | . | 0.032 | 0.86 | (0.04) | 0.019 |
| 1 | SRM C2424 | 2.68 | 0.268 | 0.041 | 0.024 | 3.37 | 0.125 | 0.061 | 0.13 | (<0.01) | 0.0046 | (0.05) | 0.006 | 0.019 | 0.050 | 0.083 |
| 1 | BAS SIMO 1/4 | 2.57 | 0.329 | 0.031 | 0.010 | 3.95 | 0.027 | 0.017 | 0.913 | 0.024 | . | 0.014 | 0.028 | 0.699 | 0.007 | 0.008 |
| 1 | BAS SIMO 2/2 | 2.14 | 0.434 | 0.025 | 0.007 | 4.75 | 0.010 | 0.0189 | 0.856 | 0.013 | 0.006 | 0.0029 | 0.026 | 0.484 | 0.005 | 0.009 |

| Number | As | B | Ca | Fe | La | Nb | Pb | Sb | Sn | W | Zr | Units |
|-----------------|--------|---------|---------|--------|--------|---------|--------|--------|---------|---------|---------|-----------------------|
| SCRM 668/13 | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| SCRM 666/12 | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| SCRM 670/19 | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| BS 291DG | 0.0017 | 0.0089 | 0.0012 | [93.1] | . | 0.0024 | 0.0009 | 0.0024 | 0.0019 | (0.002) | 0.0017 | ~35 mm Ø x ~30 mm |
| BS 286AF | (0.01) | 0.0085 | (0.001) | [91.4] | . | (0.003) | . | . | (0.004) | (0.008) | (0.007) | ~35 mm Ø x ~30 mm |
| BS 286AE | (0.01) | 0.0085 | (0.001) | [91.4] | . | (0.003) | . | . | (0.004) | (0.008) | (0.007) | ~35 mm Ø x ~30 mm |
| BS 286AD | (0.01) | 0.0085 | (0.001) | [91.4] | . | (0.003) | . | . | (0.004) | (0.008) | (0.007) | ~35 mm Ø x ~30 mm |
| BS 286AC | (0.01) | 0.0085 | (0.001) | [91.4] | . | (0.003) | . | . | (0.004) | (0.008) | (0.007) | ~35 mm Ø x ~30 mm |
| SCRM 667/13 | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| SCRM 669/14 | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| SRM C1137a | . | . | . | . | . | . | . | . | . | . | . | 32 mm Ø x 19 mm |
| SRM C2424 | . | (0.002) | . | . | 0.0011 | . | . | . | . | . | . | 32 mm Ø x 19 mm |
| BAS SIMO 1/4 | 0.002 | . | . | . | . | . | . | . | 0.046 | . | . | 48 mm x 42 mm x 12 mm |
| BAS SIMO 2/2 | 0.039 | . | . | . | . | . | . | . | 0.038 | . | . | 48 mm x 42 mm x 12 mm |

RM

Si-Mo CAST IRON

BAS SIMO: 48 mm x 42 mm x 12 mm block

CTIF: each unit = one pair 43 mm Ø x 5 mm discs

| Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | Al | Ti | V | Co | As | Sn | Ce | Mg |
|--------------|--------|-------|--------|----------|------|--------|---------|--------|-------|---------|---------|----------|---------|-------|-------|-------|-------|
| CTIF SiMo-3 | 3.18 | 0.61 | 0.053 | (0.0006) | 4.02 | 0.0325 | 0.066 | 0.110 | 0.604 | 1.15 | 0.0176 | 0.0171 | 0.0296 | . | . | . | 0.013 |
| CTIF SiMo-1 | 2.98 | 0.365 | 0.013 | (0.0015) | 4.03 | 0.035 | 0.065 | 0.036 | 0.752 | . | (0.018) | (0.018) | (0.03) | . | . | . | 0.019 |
| CTIF SiMo-5 | 2.94 | 0.439 | 0.0282 | . | 4.31 | 0.0121 | 0.194 | 0.032 | 0.841 | . | 0.010 | (0.0095) | (0.013) | . | . | . | . |
| CTIF SiMo-2 | (2.85) | 0.335 | 0.0260 | (0.001) | 3.85 | 0.036 | (0.061) | 0.038 | 1.04 | 1.51 | (0.016) | (0.017) | (0.030) | . | . | . | 0.072 |
| BAS SIMO 1/3 | 2.70 | 0.333 | 0.040 | 0.007 | 4.07 | 0.028 | 0.030 | 0.899 | 0.776 | 0.026 | 0.007 | 0.007 | 0.013 | 0.047 | 0.048 | . | 0.036 |
| CTIF SiMo-4 | 2.70 | 0.280 | 0.0211 | (0.0015) | 4.35 | 0.0657 | (0.029) | 0.0845 | 0.400 | (0.038) | 0.0171 | 0.0133 | (0.015) | . | . | . | 0.100 |
| BAS SIMO 2/2 | 2.14 | 0.434 | 0.025 | 0.007 | 4.75 | 0.010 | 0.0189 | 0.856 | 0.484 | 0.013 | 0.005 | 0.009 | 0.0029 | 0.039 | 0.038 | 0.006 | 0.026 |

CRM

WHITE IRON

analysis listed in mass %

| Number | C | Mn | P | S | Si | Cu | Ni | Cr | Co | Mo | Nb | Ti | V |
|----------------|-------|-------|-------|--------|-------|--------|-------|-------|--------|--------|-------|-------|-------|
| BS WI-2 | 3.61 | 0.80 | 0.22 | 0.056 | 0.52 | 0.0124 | 0.254 | 0.229 | 0.0118 | 0.219 | 0.128 | 0.089 | 0.215 |
| SRM C1145 | 2.92 | 0.187 | 0.215 | 0.191 | 0.271 | 0.46 | 0.62 | 0.63 | 0.058 | 0.48 | . | 0.012 | 0.112 |
| VS Chg 8/6 | (2.7) | 1.51 | 0.040 | 0.013 | 3.93 | . | (0.2) | . | . | . | . | (0.3) | . |
| VS Chg 10/6 | (2.7) | 0.86 | 0.103 | 0.0072 | 2.86 | . | (0.2) | . | . | . | . | (0.3) | . |
| VS Chg 11/6 | (2.7) | 0.312 | 0.23 | 0.039 | 1.79 | . | (0.2) | . | . | . | . | (0.3) | . |
| VS Chg 9/6 | (2.7) | 0.155 | 0.38 | 0.071 | 0.80 | . | (0.2) | . | . | . | . | (0.3) | . |
| BS WI-1 | 1.75 | 0.24 | 0.051 | 0.114 | 1.90 | 0.027 | 0.053 | 0.048 | 0.0074 | 0.0103 | 0.027 | 0.020 | 0.008 |

| Number | Al | As | B | Bi | Ca | Fe | Mg | Pb | Sb | Sn | W | Zr | Units |
|----------------|--------|---------------|--------|---------|-----------|--------|----------|--------|--------|--------|-------|---------|-------------------|
| BS WI-2 | 0.0192 | 0.0016 | 0.0008 | . | (0.00013) | [93.6] | (0.0002) | 0.013 | 0.023 | 0.0042 | 0.023 | 0.0045 | ~35 mm Ø x ~30 mm |
| SRM C1145 | (0.04) | (0.03) | (0.02) | (<0.01) | . | . | . | 0.0012 | (0.04) | (0.10) | . | (0.002) | 32 mm Ø x 19 mm |
| VS Chg 8/6 | . | (0.003-0.006) | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| VS Chg 10/6 | . | (0.003-0.006) | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| VS Chg 11/6 | . | (0.003-0.006) | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| VS Chg 9/6 | . | (0.003-0.006) | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| BS WI-1 | 0.075 | 0.0067 | 0.0032 | . | 0.0005 | [95.5] | 0.0009 | 0.115 | . | 0.0081 | 0.185 | 0.0034 | ~35 mm Ø x ~30 mm |

CAST IRON WITH MAGNESIUM - continued on the next page

= Class, where 1 = CRM and 2 = RM

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mg | Te | Al | Ce | Co | Mo | Ti | V |
|---|-----------------|-------|-------|--------|--------|-------|--------|--------|--------|--------------|---------|---------|---------|---------|---------|--------|--------|
| 1 | CZ 20034 17b | 4.38 | 0.501 | 0.089 | 0.0040 | 0.178 | 0.111 | 2.34 | 0.200 | 0.009 | . | (0.002) | (0.003) | 0.043 | 0.030 | 0.016 | 0.086 |
| 1 | CZ 20034 17a | 4.30 | 0.494 | 0.115 | 0.0034 | 0.170 | 0.082 | 2.38 | 0.200 | 0.007 | . | (0.002) | (0.003) | 0.043 | 0.030 | 0.016 | 0.086 |
| 1 | CZ 20034 17c | 4.08 | 0.503 | 0.104 | 0.0033 | 0.150 | 0.037 | 2.32 | 0.178 | 0.007 | . | (0.002) | (0.003) | 0.043 | 0.030 | 0.015 | 0.076 |
| 1 | Y 2863-11 | 4.03 | 0.61 | 0.613 | 0.026 | 0.79 | 0.96 | 0.46 | 1.65 | 0.0075 | . | . | . | . | 0.94 | 0.29 | 0.079 |
| 1 | Y 451045 | 3.90 | 0.12 | 0.023 | 0.0027 | 2.29 | 0.022 | 0.45 | 0.028 | 0.033 | . | . | . | . | 0.0030 | 0.016 | 0.0014 |
| 1 | CZ 02033 2g | 3.78 | 0.096 | 0.125 | 0.009 | 1.10 | 0.88 | 0.650 | 0.027 | 0.036 | (0.004) | 0.019 | 0.013 | 0.012 | (0.002) | 0.029 | 0.017 |
| 1 | Y 2863-12 | 3.77 | 0.158 | 0.053 | 0.057 | 0.150 | 0.55 | 0.192 | 2.31 | 0.0024 | . | . | . | . | 0.44 | 0.030 | 0.229 |
| 1 | CZ 02033 2f | 3.77 | 0.091 | 0.159 | 0.009 | 1.23 | 0.89 | 0.658 | 0.022 | 0.053 | . | 0.024 | 0.018 | (0.003) | (0.002) | 0.021 | 0.010 |
| 1 | Y 4510251-16 | 3.75 | 0.39 | 0.034 | 0.012 | 1.69 | 0.423 | 0.60 | 0.52 | 0.050 | . | 0.061 | 0.034 | . | 0.203 | 0.036 | 0.198 |
| 1 | VS ChG 25 | 3.74 | 0.68 | 0.0090 | 0.0035 | 1.46 | 0.79 | 0.38 | 0.25 | 0.037 | . | 0.009 | . | . | 0.253 | 0.017 | 0.086 |
| 1 | Y 451047 | 3.73 | 2.35 | . | 0.0036 | 2.02 | 1.98 | 3.57 | 1.58 | 0.060 | . | . | . | . | 0.050 | 0.40 | 0.018 |
| 1 | SCR M 668/13 | 3.724 | 0.712 | . | . | 1.400 | 0.751 | 0.097 | 0.962 | 0.0116 | . | . | 0.0245 | . | 0.0193 | 0.091 | 0.193 |
| 1 | CZ 20033 3c | 3.68 | 0.333 | 0.026 | 0.007 | 2.15 | 0.421 | 0.040 | 0.100 | 0.006 | (0.005) | 0.024 | 0.013 | 0.026 | 0.490 | 0.021 | 0.016 |
| 1 | SCR M 666/12 | 3.599 | 0.106 | . | . | 1.763 | 0.0581 | 1.709 | 0.102 | 0.0838 | . | . | . | . | 0.0979 | 0.1069 | 0.0486 |
| 1 | CZ 20034 15a | 3.54 | 0.051 | 0.054 | 0.0029 | 1.68 | 1.322 | 0.661 | 0.070 | 0.031 | . | 0.026 | 0.026 | 0.027 | 0.005 | 0.034 | 0.014 |
| 1 | SCR M 670/19 | 3.532 | 0.324 | . | 0.0085 | 2.216 | 0.985 | 0.916 | 0.484 | 0.0470 | . | . | 0.0139 | . | 0.0098 | 0.109 | 0.0231 |
| 1 | 11X SG1A | 3.53 | 0.278 | 0.0363 | 0.0095 | 2.96 | 0.0194 | 0.042 | 0.0299 | 0.040 | . | 0.0187 | . | . | . | 0.0150 | . |
| 1 | CZ 20034 15b | 3.52 | 0.048 | 0.054 | 0.0031 | 1.66 | 1.322 | 0.681 | 0.067 | 0.037 | . | 0.029 | 0.021 | 0.027 | 0.004 | 0.025 | 0.013 |
| 1 | 11X SG2A | 3.48 | 0.297 | 0.0353 | 0.0075 | 3.03 | 0.0245 | 0.0263 | 0.0304 | 0.055 | . | 0.0238 | . | . | . | 0.0146 | . |
| 1 | Y 451042 | 3.47 | 0.71 | 0.043 | 0.012 | 2.11 | 0.35 | 1.39 | 1.02 | 0.023 | . | . | . | . | 0.22 | 0.029 | 0.15 |
| 1 | CZ 02033 2e | 3.47 | 0.168 | 0.106 | 0.010 | 1.03 | 0.89 | 0.620 | 0.043 | 0.038 | (0.006) | 0.025 | 0.017 | 0.005 | (0.002) | 0.039 | 0.026 |
| 1 | CZ 20034 15c | 3.47 | 0.060 | 0.054 | 0.0028 | 1.68 | 1.123 | 0.728 | 0.078 | 0.040 | . | 0.010 | 0.030 | 0.026 | (0.002) | 0.036 | 0.019 |
| 1 | CZ 02033 3b | 3.38 | 0.260 | 0.012 | 0.012 | 1.74 | 0.400 | 0.049 | 0.235 | 0.012 | . | 0.026 | 0.006 | 0.012 | 0.456 | 0.023 | 0.009 |
| 1 | Y 451044 | 3.36 | 0.231 | 0.040 | 0.0060 | 2.44 | . | 2.24 | 0.16 | 0.033 | . | . | 0.006 | . | . | 0.073 | . |
| 1 | BS 291DG | 3.35 | 0.456 | 0.0216 | 0.0156 | 2.32 | 0.189 | 0.170 | 0.159 | 0.042 | . | 0.0089 | . | 0.0062 | 0.0220 | 0.0265 | 0.013 |
| 1 | VS ChG 28 | 3.29 | 0.414 | 0.025 | 0.015 | 2.22 | 1.29 | 0.166 | 0.127 | 0.010 | . | 0.015 | . | . | 0.0024 | 0.0041 | 0.0020 |
| 1 | CZ 20034 14a | 3.29 | 0.218 | 0.0115 | 0.0103 | 2.25 | 0.578 | 0.021 | 0.042 | 0.015 | . | 0.009 | 0.009 | 0.005 | 0.633 | 0.018 | 0.013 |
| 1 | CZ 20034 14b | 3.26 | 0.240 | 0.0115 | 0.0096 | 2.34 | 0.640 | 0.020 | 0.042 | 0.015 | . | 0.012 | 0.012 | 0.005 | 0.635 | 0.021 | 0.012 |
| 1 | BS 286AF | 3.24 | 0.740 | 0.201 | 0.0162 | 2.03 | 0.341 | 1.360 | 0.165 | 0.037 | . | (0.009) | . | (0.004) | 0.258 | 0.054 | 0.151 |
| 1 | BS 286AE | 3.24 | 0.740 | 0.201 | 0.0162 | 2.03 | 0.341 | 1.360 | 0.165 | 0.036 | . | (0.009) | . | (0.004) | 0.258 | 0.054 | 0.151 |
| 1 | BS 286AD | 3.24 | 0.740 | 0.201 | 0.0162 | 2.03 | 0.341 | 1.360 | 0.165 | 0.035 | . | (0.009) | . | (0.004) | 0.258 | 0.054 | 0.151 |
| 1 | BS 286AC | 3.24 | 0.740 | 0.201 | 0.0162 | 2.03 | 0.341 | 1.360 | 0.165 | 0.034 | . | (0.009) | . | (0.004) | 0.258 | 0.054 | 0.151 |
| 1 | CZ 02033 3d | 3.24 | 0.317 | 0.008 | 0.006 | 2.12 | 0.396 | 0.025 | 0.236 | 0.016 | . | 0.055 | 0.006 | 0.014 | 0.453 | 0.016 | 0.072 |
| 1 | CZ 02033 1f | 3.23 | 0.693 | 0.043 | 0.005 | 2.68 | 0.018 | 0.373 | 0.035 | 0.070 | (0.007) | 0.073 | 0.036 | 0.024 | 0.182 | 0.041 | 0.014 |
| 1 | CZ 02033 1g | 3.22 | 0.701 | 0.036 | 0.007 | 2.53 | 0.027 | 0.357 | 0.044 | 0.050 | . | 0.062 | 0.023 | 0.010 | 0.185 | 0.054 | 0.019 |
| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mg | Te | Al | Ce | Co | Mo | Ti | V |
| 1 | CZ 20034 13c | 3.15 | 0.704 | 0.0261 | 0.0044 | 2.23 | 0.089 | 1.299 | 0.124 | 0.064 | . | 0.022 | 0.011 | 0.024 | 0.360 | 0.015 | 0.043 |
| 1 | CZ 02033 1e | 3.15 | 0.718 | 0.037 | 0.006 | 2.72 | 0.012 | 0.367 | 0.037 | 0.044 | . | 0.058 | 0.027 | 0.022 | 0.185 | 0.046 | 0.015 |
| 1 | CZ 02033 1c | 3.15 | 0.674 | 0.064 | 0.010 | 2.36 | 0.035 | 0.367 | 0.051 | 0.019 | . | 0.033 | 0.009 | 0.009 | 0.197 | 0.036 | 0.019 |
| 1 | CZ 20034 14c | 3.14 | 0.275 | 0.0162 | 0.0081 | 2.49 | 0.585 | 0.030 | 0.045 | 0.017 | . | 0.007 | 0.019 | 0.009 | 0.646 | 0.018 | 0.013 |
| 1 | CKD 247C (U) | 3.13 | 0.99 | 0.099 | 0.0033 | 1.29 | 0.84 | 0.503 | 0.029 | 0.053 | (0.007) | 0.041 | 0.058 | 0.097 | 0.024 | 0.057 | 0.010 |
| 1 | CZ 20034 13a | 3.13 | 0.691 | 0.0244 | 0.0046 | 2.19 | 0.021 | 1.266 | 0.122 | 0.053 | . | 0.017 | 0.011 | 0.024 | 0.364 | 0.014 | 0.048 |
| 1 | CZ 20034 13b | 3.12 | 0.692 | 0.0243 | 0.0041 | 2.12 | 0.021 | 1.313 | 0.125 | 0.054 | . | 0.019 | 0.011 | 0.024 | 0.364 | 0.012 | 0.048 |
| 1 | CKD 247B | 3.09 | 1.05 | 0.098 | 0.0034 | 1.20 | 0.822 | 0.437 | 0.041 | 0.056 | (0.008) | 0.043 | 0.053 | 0.095 | 0.023 | 0.067 | 0.013 |
| 1 | VS ChG 24 | 3.05 | 0.245 | 0.260 | 0.0048 | 2.50 | 0.100 | 0.87 | 0.031 | 0.015 | . | 0.007 | . | . | 0.031 | 0.060 | 0.0067 |
| 1 | Y 2863-9 | 3.04 | 1.43 | 0.049 | 0.015 | 1.53 | 0.269 | 1.59 | 0.72 | 0.043 | . | . | . | . | 1.38 | 0.212 | 0.41 |
| 1 | VS ChM5/1 | 3.04 | 0.311 | 0.056 | 0.016 | 1.37 | . | . | 0.045 | . | . | 0.013 | . | . | . | . | . |
| 1 | SCR M 667/13 | 3.04 | 0.222 | . | . | 2.866 | 0.497 | 1.303 | 0.294 | 0.070 | . | . | 0.110 | . | . | . | 0.103 |
| 1 | VS ChM6/1 | 3.03 | 0.54 | 0.055 | 0.0074 | 2.75 | . | . | 0.072 | . | . | 0.022 | . | . | . | . | . |
| 1 | VS ChM8/1 | 3.02 | 0.83 | 0.055 | 0.0034 | 3.39 | . | . | 0.105 | . | . | 0.041 | . | . | . | . | . |
| 1 | VS ChM13 | 2.96 | 1.05 | 0.043 | 0.009 | 2.98 | 0.062 | 1.65 | 0.273 | 0.09 | . | 0.065 | . | . | . | 0.018 | 0.0096 |
| 1 | SCR M 669/14 | 2.955 | 0.526 | . | . | 2.201 | 0.194 | 0.473 | 0.214 | 0.0224 | . | . | 0.0415 | . | 0.0550 | 0.0499 | 0.532 |
| 1 | CKD 245B(U) | 2.95 | 1.38 | 0.42 | 0.035 | 1.59 | 0.081 | 0.194 | 0.197 | 0.003 | (0.017) | 0.038 | (0.00) | 0.007 | 0.115 | 0.110 | 0.055 |
| 1 | CKD 245A | 2.94 | 1.38 | 0.41 | 0.039 | 1.58 | 0.076 | 0.161 | 0.166 | 0.003 | (0.018) | 0.019 | (0.00) | 0.003 | 0.114 | 0.087 | 0.073 |
| 1 | VS ChG 26 | (2.9) | 0.126 | 0.123 | 0.0041 | 2.98 | 0.014 | 1.52 | 0.050 | 0.044 | . | 0.038 | . | . | 0.075 | 0.0026 | 0.040 |
| 1 | VS ChM10 | 2.89 | 0.43 | 0.067 | 0.017 | 1.13 | 0.082 | 0.85 | 0.067 | 0.024 | . | 0.005 | . | . | . | 0.028 | 0.079 |
| 1 | SRM C1137a | 2.86 | 0.52 | 0.087 | 0.017 | 1.15 | 0.192 | 2.17 | 0.643 | 0.032 | . | (0.007) | 0.016 | . | 0.86 | (0.04) | 0.019 |
| 1 | CKD 246B | 2.73 | 0.354 | 0.66 | 0.020 | 0.76 | 1.39 | 0.065 | 1.16 | 0.016 | (0.00) | 0.101 | 0.007 | 0.012 | 0.009 | 0.014 | 0.013 |
| 1 | SRM C2424 | 2.68 | 0.268 | 0.041 | 0.024 | 3.37 | 0.125 | 0.061 | 0.13 | 0.006 | . | (<0.01) | 0.0046 | (0.05) | 0.019 | 0.050 | 0.083 |
| 1 | VS ChM9 | 2.61 | 1.28 | 0.075 | 0.021 | 1.59 | 0.095 | 0.38 | 0.083 | 0.011 | . | 0.016 | . | . | . | 0.027 | 0.068 |
| 1 | VS ChM11 | 2.26 | 0.77 | 0.032 | 0.011 | 2.32 | 0.067 | 1.75 | 0.122 | 0.066 | . | 0.035 | . | . | . | 0.014 | 0.0044 |
| 1 | Y 2863-7 | 1.98 | 3.42 | 0.067 | 0.0061 | 3.10 | 0.089 | 4.47 | 0.150 | 0.050 | . | . | 0.019 | . | 0.052 | 0.060 | 0.87 |
| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mg | Te | Al | Ce | Co | Mo | Ti | V |

BS: 28-34 mm Ø x 17-35 mm CKD 24x: 37 mm x 37 mm x ~15-20 mm SCR M: 48 mm x 42 mm x 12 mm VS: ~40 mm Ø x ~40 mm
 CZ: 40 mm Ø x 18 mm SRM: 32 mm Ø x 19 mm Y: 30 mm Ø x 30 mm

CAST IRON WITH MAGNESIUM - continued from the previous page

sizes shown below

| Number | As | B | Bi | Ca | Fe | La | Nb | Pb | Sb | Se | Sn | W | Zr | Other |
|-----------------|----------|----------|---------|---------|--------|-------|---------|----------|---------|----|---------|---------|----------|---------------|
| CZ 20034 17b | 0.008 | (0.0002) | (0.001) | . | . | . | . | (0.002) | . | . | (0.002) | 0.004 | . | . |
| CZ 20034 17a | 0.007 | (0.0002) | (0.001) | . | . | . | . | (0.002) | . | . | (0.002) | 0.004 | . | . |
| CZ 20034 17c | 0.0005 | (0.0006) | (0.002) | . | . | . | . | (0.002) | . | . | (0.002) | 0.004 | . | . |
| Y 2863-11 | (0.022) | 0.053 | . | . | . | . | 0.33 | (0.0057) | (0.174) | . | (0.108) | 0.010 | . | . |
| Y 451045 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| CZ 02033 2g | . | 0.0023 | 0.006 | . | . | . | . | 0.008 | 0.029 | . | 0.015 | (0.004) | . | Zn: 0.020 |
| Y 2863-12 | (0.0097) | 0.0078 | . | . | . | . | 0.21 | (0.056) | (0.471) | . | (0.307) | 0.13 | . | . |
| CZ 02033 2f | . | 0.0020 | (0.002) | . | . | . | . | 0.005 | 0.028 | . | 0.014 | (0.003) | (0.005) | Zn: 0.018 |
| Y 4510251-16 | . | 0.0044 | . | . | . | 0.016 | . | . | . | . | 0.030 | . | . | . |
| VS ChG 25 | . | . | . | . | . | . | . | . | 0.052 | . | 0.017 | . | . | . |
| Y 451047 | . | 0.31 | . | . | . | . | 0.012 | . | . | . | . | . | . | . |
| SCRM 668/13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| CZ 02033 3c | (0.007) | 0.0044 | (0.002) | . | . | . | . | 0.005 | . | . | 0.009 | (0.003) | . | . |
| SCRM 666/12 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| CZ 20034 15a | (0.003) | 0.0041 | 0.012 | . | . | . | . | . | 0.058 | . | 0.005 | 0.006 | . | . |
| SCRM 670/19 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 11X SG1A | 0.0021 | . | . | . | . | . | . | . | . | . | . | . | Zn:0.041 | -50Ø x ~15mm |
| CZ 20034 15b | (0.003) | 0.0033 | 0.010 | . | . | . | . | . | 0.058 | . | 0.005 | 0.007 | . | . |
| 11X SG2A | 0.0022 | . | . | . | . | . | . | . | . | . | . | . | Zn:0.040 | -50Ø x ~15mm |
| Y 451042 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| CZ 02033 2e | . | 0.0024 | 0.005 | . | . | . | . | (0.004) | 0.028 | . | 0.015 | 0.008 | . | Zn: 0.025 |
| CZ 20034 15c | (0.003) | 0.0057 | 0.008 | . | . | . | . | . | 0.056 | . | 0.006 | 0.004 | . | . |
| CZ 02033 3b | . | 0.0042 | 0.001 | . | . | . | . | 0.009 | . | . | 0.019 | . | . | . |
| Y 451044 | . | . | . | . | . | . | . | . | . | . | . | . | . | last of stock |
| BS 291DG | 0.0017 | 0.0089 | . | 0.0012 | [93.1] | . | 0.0024 | 0.0009 | 0.0024 | . | 0.0019 | (0.002) | 0.0017 | 17025 |
| VS ChG 28 | . | . | . | . | . | . | . | . | 0.015 | . | 0.0017 | . | . | . |
| CZ 20034 14a | 0.036 | 0.0096 | 0.007 | . | . | . | . | (0.005) | 0.015 | . | 0.027 | (0.005) | 0.011 | Zn: 0.010 |
| CZ 20034 14b | 0.034 | 0.0100 | 0.007 | . | . | . | . | (0.005) | 0.016 | . | 0.028 | (0.005) | 0.014 | Zn: 0.009 |
| BS 286AF | (0.01) | 0.0085 | . | (0.001) | [91.4] | . | (0.003) | . | . | . | (0.004) | (0.008) | (0.007) | 17025 |
| BS 286AE | (0.01) | 0.0085 | . | (0.001) | [91.4] | . | (0.003) | . | . | . | (0.004) | (0.008) | (0.007) | 17025 |
| BS 286AD | (0.01) | 0.0085 | . | (0.001) | [91.4] | . | (0.003) | . | . | . | (0.004) | (0.008) | (0.007) | 17025 |
| BS 286AC | (0.01) | 0.0085 | . | (0.001) | [91.4] | . | (0.003) | . | . | . | (0.004) | (0.008) | (0.007) | 17025 |
| CZ 02033 3d | (0.018) | 0.0071 | (0.002) | . | . | . | . | 0.005 | 0.007 | . | 0.009 | . | . | . |
| CZ 02033 1f | . | 0.0043 | (0.001) | . | . | . | . | 0.009 | . | . | 0.030 | 0.022 | (0.008) | . |
| CZ 02033 1g | . | 0.0034 | 0.005 | . | . | . | . | 0.016 | . | . | 0.028 | 0.015 | (0.004) | . |

| Number | As | B | Bi | Ca | Fe | La | Nb | Pb | Sb | Se | Sn | W | Zr | Other |
|--------------|---------|---------|---------|----------|--------|--------|---------|----------|---------|---------|----------|---------|----------|---------------|
| CZ 20034 13c | (0.002) | . | . | . | . | . | . | . | (0.002) | . | 0.014 | (0.003) | (0.02) | . |
| CZ 02033 1e | . | 0.0036 | (0.002) | . | . | . | . | 0.007 | . | . | 0.032 | 0.021 | (0.007) | Zn: 0.009 |
| CZ 02033 1c | . | 0.0005 | 0.016 | . | . | . | . | 0.006 | . | . | 0.032 | 0.015 | Zn:0.001 | . |
| CZ 20034 14c | 0.035 | 0.0123 | . | . | . | . | . | . | 0.020 | . | 0.025 | (0.003) | 0.013 | Zn: 0.010 |
| CKD 247C (U) | 0.012 | 0.000 | 0.007 | Zn:0.018 | (92.6) | 0.023 | 0.048 | (0.002) | 0.005 | (0.000) | 0.040 | (0.002) | 0.009 | last of stock |
| CZ 20034 13a | (0.002) | . | . | . | . | . | . | . | (0.002) | . | 0.014 | (0.003) | 0.029 | . |
| CZ 20034 13b | (0.002) | . | . | . | . | . | . | . | (0.002) | . | 0.014 | (0.003) | 0.023 | . |
| CKD 247B | 0.010 | 0.000 | 0.007 | . | (92.7) | 0.019 | 0.052 | (0.002) | 0.005 | (0.000) | 0.038 | (0.002) | 0.009 | Zn: 0.012 |
| VS ChG 24 | . | . | . | . | . | . | . | . | 0.009 | . | 0.077 | . | . | . |
| Y 2863-9 | (0.041) | 0.153 | . | . | . | . | 0.11 | (0.093) | (0.116) | . | (0.124) | . | . | . |
| VS ChM5/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| SCRM 667/13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| VS ChM6/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| VS ChM8/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| VS ChM13 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| SCRM 669/14 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| CKD 245B(U) | 0.006 | 0.003 | 0.009 | . | (92.5) | (0.00) | 0.029 | 0.020 | 0.052 | (0.029) | 0.076 | 0.020 | 0.004 | . |
| CKD 245A | 0.002 | 0.007 | 0.008 | . | (92.7) | (0.00) | (0.001) | 0.015 | 0.050 | (0.036) | 0.076 | 0.021 | 0.003 | last |
| VS ChG 26 | . | . | . | . | . | . | . | . | . | . | 0.031 | . | . | . |
| VS ChM10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| SRM C1137a | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| CKD 246B | 0.003 | 0.000 | (0.001) | . | (92.6) | 0.003 | (0.001) | (0.002) | 0.004 | (0.00) | 0.002 | (0.011) | 0.000 | . |
| SRM C2424 | . | (0.002) | . | . | . | 0.0011 | . | . | . | . | . | . | . | . |
| VS ChM9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| VS ChM11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Y 2863-7 | (0.021) | 0.100 | . | . | . | . | 0.041 | (0.0025) | (0.010) | . | (0.0073) | . | . | . |

BS: 28-34 mm Ø x 17-35 mm CKD 24x: 37 mm x 37 mm x ~13-20 mm SCRM: 48 mm x 42 mm x 12 mm VS: ~39 mm Ø x ~39 mm
 CZ: 40 mm Ø x 18 mm SRM: 32 mm Ø x 19 mm Y: 30 mm Ø x 30 mm

RM CAST IRON WITH YOUR CHOICE OF MAGNESIUM LEVELS each unit: 2 pcs mushroom 43 mm Ø x 5 mm

| Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mg | Al | Ce | Co | Sn | Ti | V | Zn | Other |
|------------|------|-------|--------|----------|------|--------|-------|-------|----|---------|---------|---------|--------|--------|---------|-------|-------------|
| CTIF 6134 | 3.70 | 0.25 | 0.030 | <0.01 | 1.60 | 0.020 | 2.00 | 0.040 | * | . | <0.03 | . | . | . | . | . | . |
| CTIF 8532 | 3.7 | 0.288 | 0.05 | . | 2.6 | 0.0443 | 0.888 | 0.04 | * | . | <0.025 | . | 0.0303 | 0.02 | 0.07 | . | . |
| CTIF 6135 | 3.6 | 0.38 | 0.0130 | (0.003) | 0.9 | 0.0219 | 1.98 | 0.04 | * | (0.006) | . | 0.037 | . | 0.007 | 0.0155 | . | . |
| CTIF 4500 | 3.38 | 0.60 | 0.059 | (0.002) | 1.97 | . | 1.45 | 0.014 | * | 0.033 | 0.023 | 0.065 | . | . | . | . | . |
| CTIF 5781 | 3.35 | 0.26 | 0.030 | (0.0025) | 2.50 | 0.0061 | 0.83 | 0.040 | * | . | . | (0.004) | . | 0.0208 | 0.0150 | . | . |
| CTIF 4497 | 3.12 | 0.605 | 0.043 | (<0.002) | 2.66 | 0.048 | 1.90 | 0.040 | * | . | . | . | 0.094 | . | 0.031 | 0.44 | . |
| CTIF 7160 | 3.1 | 0.57 | 0.05 | (0.001) | 2.4 | 0.08 | 1.0 | (0.1) | * | (0.02) | 0.02 | 0.09 | . | 0.013 | 0.018 | . | As: 0.009 |
| CTIF 5037 | 3.04 | 0.76 | 0.043 | (0.0025) | 3.40 | . | 0.64 | 0.014 | * | . | . | . | . | 0.029 | . | . | . |
| CTIF 3601B | 3.0 | 0.35 | 0.037 | (0.005) | 2.1 | 0.019 | 1.08 | 0.029 | * | . | <0.01 | . | . | 0.016 | (0.005) | <0.05 | Pb:(<0.002) |
| CTIF 8018 | 3.0 | 0.7 | 0.07 | (0.0015) | 3.0 | 0.08 | 0.127 | 0.09 | * | 0.02 | (<0.02) | . | 0.07 | 0.06 | 0.39 | . | Sb:(0.01) |
| CTIF 6736 | 2.8 | 0.65 | 0.012 | (0.002) | 1.6 | 0.0258 | 1.7 | 0.03 | * | . | . | . | . | 0.008 | (0.03) | . | . |
| CTIF 5783 | 2.55 | 0.2 | 0.0266 | (0.003) | 2.3 | 0.110 | 1.23 | 0.05 | * | . | . | 0.0074 | . | 0.015 | 0.0127 | . | As: 0.0016 |

Magnesium level available in the below samples. X = available

| For Mg Range | Order Suffix | 3601B | 4497 | 4500 | 5037 | 5781 | 5783 | 6134 | 6135 | 6736 | 7160 | 8018 | 8532 |
|---------------|--------------|-------|------|------|------|------|------|------|------|------|------|------|------|
| <0.005 | <0.005 | X | . | . | . | X | X | . | . | . | . | X | . |
| 0.005 - 0.009 | 0.005 | X | . | . | X | X | X | . | . | X | . | X | X |
| 0.010 - 0.014 | 0.01 | X | . | . | X | X | X | . | . | X | X | X | X |
| 0.015 - 0.024 | 0.02 | X | . | . | X | X | X | . | X | X | X | X | X |
| 0.025 - 0.034 | 0.03 | . | . | . | X | X | X | . | X | X | X | X | X |
| 0.035 - 0.044 | 0.04 | . | . | . | X | X | X | . | X | X | X | X | X |
| 0.045 - 0.054 | 0.05 | . | . | . | X | X | X | . | X | X | X | X | X |
| 0.055 - 0.064 | 0.06 | . | X | X | . | X | X | . | X | X | X | X | X |
| 0.065 - 0.074 | 0.07 | . | X | X | . | . | X | . | X | X | X | X | . |
| 0.075 - 0.084 | 0.08 | . | . | X | . | . | . | X | X | X | X | X | . |
| 0.085 - 0.094 | 0.09 | . | X | X | . | . | . | X | X | X | X | X | . |
| 0.095 - 0.104 | 0.10 | . | . | . | . | . | . | X | X | X | X | X | . |
| 0.105 - 0.114 | 0.11 | . | . | . | . | . | . | X | X | X | X | X | . |
| 0.115 - 0.124 | 0.12 | . | . | . | . | . | . | X | X | X | X | X | . |
| 0.125 - 0.134 | 0.13 | . | . | . | . | . | . | X | . | X | X | . | . |
| 0.135 - 0.144 | 0.14 | . | . | . | . | . | . | X | . | . | X | . | . |
| 0.145 - 0.154 | 0.15 | . | . | . | . | . | . | . | . | . | X | . | . |
| 0.155 - 0.164 | 0.16 | . | . | . | . | . | . | . | . | . | X | . | . |
| 0.165 - 0.174 | 0.17 | . | . | . | . | . | . | . | . | . | X | . | . |
| 0.175 - 0.184 | 0.18 | . | . | . | . | . | . | . | . | . | . | . | . |

The above cast iron samples can be ordered with your choice of Magnesium. Examples:
to order CTIF 6736 with Mg 0.035 - 0.044 then order as part number CTIF 6736 0.04
to order CTIF 8018 with trace Mg, order as part number CTIF 8018 <0.005

CAST IRON WITH C > 2.75%

CONTINUED ON THE NEXT PAGE

= Class, 1 = CRM and 2 = RM

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Co | Mo | Nb | Sn | Ti | V | Zn |
|---|--------------|--------|--------|--------|---------|--------|--------|--------|--------|----------|---------|---------|----------|---------|---------|---------|--------|
| 1 | CZ 02033 4e | 4.45 | 0.034 | 0.023 | 0.006 | 0.090 | 0.005 | 0.049 | 0.030 | (0.003) | 0.033 | 0.002 | . | (0.001) | 0.011 | 0.015 | . |
| 1 | SCRM 672/1 | 4.322 | 0.474 | 0.198 | 0.036 | 0.143 | 0.100 | 0.083 | 0.0186 | 0.0102 | 0.139 | 0.117 | . | 0.0047 | 0.0373 | 0.0988 | . |
| 1 | CZ 02033 4d | 4.19 | 0.112 | 0.050 | 0.041 | 0.259 | 0.084 | 0.063 | 0.056 | 0.007 | (0.003) | 0.024 | . | (0.001) | 0.009 | 0.012 | 0.009 |
| 1 | SCRM 659/9 | 4.174 | 1.010 | 0.0215 | 0.0372 | 1.361 | . | . | . | . | . | . | . | . | . | . | . |
| 1 | Y 2582-7 | 4.13 | 2.06 | 0.306 | 0.111 | 1.85 | . | 0.026 | 0.157 | . | . | . | . | . | 0.399 | 0.821 | . |
| 2 | BS CC-14 | (4.04) | (0.01) | 0.016 | 0.003 | 0.64 | 0.021 | 0.074 | 0.031 | 0.006 | 0.036 | (0.003) | . | 0.002 | 0.004 | 0.021 | . |
| 1 | DSZU CH04 | 4.01 | 1.77 | 0.074 | 0.018 | 0.73 | 0.55 | 0.273 | 0.100 | 0.014 | (0.05) | (0.004) | (0.005) | (0.002) | 0.025 | (0.004) | . |
| 1 | DSZU CH05 | 3.99 | 2.23 | 0.119 | 0.039 | 0.46 | 0.61 | 0.85 | 1.63 | (0.002) | (0.07) | 0.109 | (0.3) | (0.01) | 0.070 | 0.200 | . |
| 1 | CZ 02033 4b | 3.95 | 0.145 | 0.041 | 0.046 | 0.252 | 0.062 | 0.023 | 0.049 | 0.003 | 0.005 | 0.005 | . | 0.001 | 0.006 | 0.004 | 0.008 |
| 1 | Y 2582-6 | 3.93 | 1.46 | 0.168 | 0.124 | 0.99 | . | 0.094 | 0.387 | . | . | (0.112) | . | . | 0.105 | 0.506 | . |
| 1 | VS ChG 2/9 | 3.93 | 0.456 | 0.513 | 0.078 | 0.387 | 0.082 | . | 0.060 | . | . | . | . | . | 0.080 | 0.049 | . |
| 1 | DSZU CH06 | 3.88 | 0.85 | 0.050 | 0.050 | 0.28 | 1.03 | 1.23 | (2.8) | 0.025 | (0.07) | 0.29 | (0.05) | (0.03) | 0.33 | 0.205 | . |
| 1 | CZ 20034 16c | 3.87 | 1.311 | 0.173 | 0.0243 | 0.95 | 0.345 | 0.376 | 0.332 | 0.004 | 0.006 | 0.195 | . | 0.125 | 0.057 | 0.027 | 0.017 |
| 1 | CZ 20034 16a | 3.80 | 1.292 | 0.171 | 0.0266 | 1.00 | 0.332 | 0.390 | 0.374 | 0.007 | 0.010 | 0.203 | . | 0.125 | 0.0763 | 0.021 | 0.019 |
| 1 | CZ 20034 16b | 3.78 | 1.327 | 0.170 | 0.0236 | 1.00 | 0.332 | 0.388 | 0.378 | 0.007 | 0.010 | 0.202 | . | 0.121 | 0.070 | 0.029 | 0.020 |
| 1 | VS ChG 32 | 3.74 | 1.90 | 0.061 | 0.018 | 0.60 | 0.171 | . | 0.031 | . | . | 0.113 | . | 0.060 | 0.040 | 0.294 | . |
| 1 | Y 2582-4 | 3.70 | 0.857 | 0.087 | 0.076 | 0.451 | . | 0.032 | 0.117 | . | . | (0.031) | . | . | 0.030 | 0.158 | . |
| 1 | Y 451043 | 3.69 | 0.49 | 0.063 | 0.049 | 1.50 | 0.34 | 0.23 | 0.47 | . | . | 0.22 | . | . | . | 0.11 | . |
| 1 | 11X HPC5A | 3.68 | 1.028 | 0.246 | 0.223 | 1.175 | . | . | 1.42 | . | . | . | . | . | . | . | . |
| 1 | Y 2582-5 | 3.67 | 0.596 | 0.072 | 0.117 | 0.183 | . | 0.502 | 0.171 | . | . | (0.68) | . | . | 0.066 | 0.335 | . |
| 1 | VS ChG 1/9 | 3.61 | 1.12 | 0.184 | 0.038 | 1.13 | 0.041 | . | 0.017 | . | . | . | . | . | 0.014 | 0.006 | . |
| 1 | CZ 02033 7b | 3.61 | 0.304 | 0.021 | 0.020 | 1.82 | 0.036 | 1.28 | 0.536 | 0.022 | 0.050 | 0.96 | . | . | 0.015 | 0.007 | . |
| 1 | CZ 02033 7c | 3.55 | 0.389 | 0.028 | 0.026 | 1.73 | 0.016 | 1.26 | 0.542 | 0.040 | 0.048 | 0.966 | . | (0.004) | 0.026 | 0.067 | . |
| 1 | DSZU CH03 | 3.54 | 0.40 | 0.023 | 0.034 | 0.57 | 0.194 | 0.187 | 0.612 | 0.035 | (0.05) | (0.019) | (0.010) | (0.004) | 0.059 | 0.009 | . |
| 1 | VS ChG 3/9 | 3.54 | 0.387 | 0.037 | 0.053 | 0.516 | 0.123 | . | 0.100 | . | . | . | . | . | 0.125 | 0.096 | . |
| 1 | VS ChG 27 | 3.53 | 1.21 | 0.044 | 0.029 | 1.82 | 0.348 | 0.022 | 0.162 | 0.008 | . | 0.147 | . | 0.115 | 0.056 | 0.160 | . |
| 1 | SCRM 660/10 | 3.522 | 0.398 | 0.143 | 0.1089 | 1.719 | . | . | . | . | . | . | . | . | . | . | . |
| 1 | VS ChG 5/9 | 3.51 | 0.60 | 0.104 | 0.036 | 0.84 | 0.037 | . | 0.307 | . | . | . | . | . | (0.1) | 0.441 | . |
| 1 | 11X C10C | 3.48 | 0.696 | 0.103 | 0.050 | 2.10 | 1.54 | 2.673 | 0.302 | 0.104 | . | 0.335 | . | 0.0458 | 0.0709 | 0.0589 | . |
| 1 | Y 2863-5 | 3.47 | 0.78 | 0.564 | 0.070 | 0.89 | 0.365 | 0.62 | 1.53 | . | . | 0.67 | . | . | 0.133 | 0.129 | . |
| 1 | 11X C2U | 3.414 | 1.203 | 0.268 | 0.093 | 1.081 | 0.1085 | 1.702 | 0.882 | 0.053 | 0.226 | 0.111 | (0.030) | 0.046 | 0.094 | 0.314 | . |
| 1 | CZ 02033 8c | 3.41 | 0.408 | 0.168 | 0.058 | 1.93 | 0.158 | 0.102 | 0.125 | 0.004 | 0.030 | 0.041 | . | 0.067 | 0.022 | 0.015 | . |
| 1 | 11X C3AB | 3.408 | 0.447 | 0.451 | 0.201 | 0.849 | 0.295 | 3.20 | 2.02 | 0.0090 | 0.241 | 0.216 | (0.19) | 0.209 | 0.040 | 0.692 | 0.0389 |
| 1 | VS ChL1/1 | 3.39 | 0.53 | 0.048 | 0.029 | 1.32 | 0.344 | 0.410 | 0.264 | . | 0.017 | 0.036 | . | . | 0.061 | 0.073 | . |
| 1 | 11X HPC3J | 3.38 | 1.287 | 2.01 | 0.0473 | 1.63 | . | 2.18 | 1.48 | . | . | 0.120 | . | . | . | . | . |
| 1 | VS ChG 1/5 | 3.38 | 1.09 | 0.160 | 0.029 | 1.04 | (0.04) | . | (0.08) | . | . | . | . | . | 0.005 | 0.050 | . |
| 1 | VS ChG 35 | 3.34 | 1.23 | 0.102 | 0.021 | 0.617 | 0.090 | 2.15 | 0.233 | . | . | 0.027 | . | . | 0.022 | 0.043 | . |
| 1 | KUT 120 | 3.34 | 0.59 | 0.059 | 0.18 | 1.84 | . | . | . | . | . | . | . | . | . | . | . |
| 1 | NCS HS11783 | 3.33 | 0.756 | 0.083 | 0.090 | 1.73 | 0.666 | 0.304 | 0.386 | . | . | 0.238 | . | 0.066 | 0.057 | 0.174 | . |
| 1 | SCRM 658/11 | 3.278 | 0.502 | 0.177 | 0.067 | 1.933 | . | . | . | . | . | . | . | . | . | . | . |
| 1 | Y 2863-3 | 3.32 | 1.27 | 0.115 | 0.049 | 2.27 | 0.62 | 2.01 | 0.49 | . | . | 0.313 | . | . | 0.176 | 0.45 | . |
| 1 | KUT 121 | 3.32 | 0.61 | 0.135 | 0.17 | (1.86) | . | . | . | . | . | . | . | . | . | . | . |
| 1 | KUT 205 | 3.32 | 0.80 | 0.025 | (0.010) | 1.88 | 0.81 | 0.61 | 0.64 | . | . | 1.79 | . | (0.035) | . | . | . |
| 1 | KUT 206 | 3.32 | 0.75 | 0.027 | (0.010) | 1.84 | 1.01 | 0.21 | 0.12 | . | . | 2.14 | . | (0.107) | . | . | . |
| 1 | KUT 122 | 3.31 | 0.61 | 0.22 | 0.20 | 1.72 | . | . | . | . | . | . | . | . | . | . | . |
| 1 | KUT 123 | 3.30 | 0.69 | 0.31 | 0.074 | (1.87) | . | . | . | . | . | . | . | . | . | . | . |
| 1 | NCS HS11784 | 3.30 | 0.528 | 0.78 | 0.031 | 2.68 | 0.015 | 0.024 | 0.812 | (0.0012) | . | 0.142 | (0.0012) | 0.0005 | 0.084 | 0.020 | . |
| 1 | Y 2582-3 | 3.29 | 1.22 | 0.045 | 0.056 | 0.689 | . | 0.046 | 0.030 | . | . | . | . | . | 0.043 | 0.071 | . |
| 1 | 11X HPC1H | 3.29 | 0.620 | 0.808 | 0.0035 | 3.27 | . | . | 1.056 | . | . | 0.060 | . | . | . | . | . |
| 1 | SCRM 665/4 | 3.25 | 0.24 | 1.09 | 0.053 | 1.66 | . | . | (1) | . | . | . | . | . | . | . | . |
| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Co | Mo | Nb | Sn | Ti | V | Zn |
| 1 | 11X C9D | 3.24 | 1.886 | 0.069 | 0.0260 | 1.462 | 0.581 | 2.79 | 1.206 | 0.051 | 0.1301 | 0.155 | 0.0766 | 0.040 | (0.062) | 0.359 | 0.009 |
| 1 | VS ChG 4/9 | 3.24 | 1.42 | 0.030 | 0.024 | 0.455 | 0.199 | . | 0.155 | . | . | . | . | . | 0.10 | 0.169 | . |
| 2 | BAS NCRM3 | 3.24 | 0.67 | 0.125 | 0.090 | 0.29 | 1.21 | 3.64 | 0.95 | . | . | 0.78 | . | . | 0.92 | . | . |
| 1 | 11X HPC1G | 3.22 | 0.499 | 0.75 | 0.0311 | 2.60 | . | . | . | . | . | . | . | . | . | . | . |
| 1 | NCS HS11782 | 3.21 | 1.09 | 0.088 | 0.035 | 1.64 | 0.042 | 0.014 | 0.061 | . | . | 0.0048 | . | . | 0.027 | 0.0079 | . |
| 1 | KUT 125 | 3.20 | 0.73 | 0.70 | 0.019 | (1.87) | . | . | . | . | . | . | . | . | . | . | . |
| 1 | VS ChG 31 | 3.19 | 0.97 | 0.147 | 0.043 | 2.60 | 0.281 | . | 0.156 | . | . | 0.0069 | . | 0.013 | 0.0063 | 0.0035 | . |
| 1 | NCS HS11785 | 3.19 | 0.482 | 0.79 | 0.030 | 2.52 | 0.021 | 0.031 | 0.817 | (0.0030) | . | 0.139 | (0.0009) | 0.0010 | 0.076 | 0.018 | . |
| 1 | DSZU CH02 | 3.18 | 1.09 | 0.007 | 0.0116 | 1.35 | 0.038 | 0.658 | 0.59 | 0.026 | (0.06) | 0.224 | (0.4) | (0.014) | 0.161 | (0.005) | . |
| 1 | VS ChM 12 | 3.17 | 1.00 | 0.030 | 0.007 | 3.10 | 0.062 | 1.65 | 0.039 | 0.050 | . | . | . | . | 0.013 | 0.0027 | . |
| 1 | SCRM 671/1 | 3.165 | 0.811 | 0.108 | 0.0503 | 0.868 | . | 0.0627 | 0.0609 | 0.030 | 0.098 | 0.0259 | . | 0.0103 | 0.0407 | 0.0122 | . |
| 1 | KUT 126 | 3.16 | 0.81 | 1.41 | 0.016 | 1.90 | . | . | . | . | . | . | . | . | . | . | . |
| 1 | KUT 202 | 3.16 | 0.81 | 0.024 | (0.010) | 1.77 | 0.24 | 2.07 | 2.36 | . | . | 0.44 | . | (0.21) | . | . | . |
| 1 | KUT 204 | 3.15 | 0.80 | 0.023 | (0.009) | 1.79 | 0.64 | 1.09 | 1.22 | . | . | 1.38 | . | (0.215) | . | . | . |
| 1 | CZ 02033 6a | 3.14 | 1.22 | 0.077 | 0.032 | 3.37 | 0.225 | 0.023 | 1.40 | 0.022 | . | 0.005 | . | 0.119 | 0.066 | 0.300 | . |
| 1 | KUT 127 | 3.14 | 0.79 | 1.55 | 0.014 | 1.81 | . | . | . | . | . | . | . | . | . | . | . |
| 1 | KUT 203 | 3.14 | 0.79 | 0.024 | (0.009) | 1.78 | 0.43 | 1.63 | 1.79 | . | . | 0.91 | . | (0.16) | . | . | . |
| 1 | CZ 02033 6c | 3.11 | 1.25 | 0.097 | 0.019 | 3.25 | 0.273 | 0.021 | 1.33 | 0.024 | 0.005 | 0.006 | . | 0.131 | 0.107 | 0.192 | . |
| 1 | CZ 02033 7a | 3.11 | 0.321 | 0.043 | 0.019 | 1.83 | 0.022 | 1.29 | 0.479 | 0.029 | 0.044 | 1.07 | . | . | 0.027 | 0.005 | . |
| 1 | SCRM 653/4 | 3.10 | 0.110 | 0.023 | 0.050 | 1.22 | . | . | (1) | . | . | . | . | . | . | . | . |
| 1 | VS ChG 30 | 3.06 | 2.10 | 0.090 | 0.035 | 1.97 | 0.576 | . | 0.24 | . | . | 0.00 | | | | | |

CAST IRON WITH C > 2.75%

CONTINUED FROM THE PREVIOUS PAGE

analysis in mass % except * = mg/kg

| Number | As | B | Bi | Ca* | Ce | La | Mg | N | Pb | Sb | Se | Te | W | Zr | Units |
|--------------|----------|----------|-----------|------|-------------------------|----------|----------|--------|---------|---------|--------|---------|-----------|---------|----------------------------|
| CZ 02033 4e | . | . | (0.002) | . | . | . | . | . | . | (0.002) | . | . | . | . | 40 mm Ø x 18 mm |
| SCRM 672/1 | 0.0079 | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| CZ 02033 4d | (0.012) | (0.0001) | (0.002) | . | . | . | . | . | . | 0.007 | . | . | . | . | 40 mm Ø x 18 mm |
| SCRM 659/9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| Y 2582-7 | 0.043 | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 mm Ø x 30 mm |
| BS CC-14 | (<0.001) | (0.0003) | (<0.0005) | 11 | (0.002) | (0.0007) | (0.024) | . | 0.0002 | (0.001) | . | 0.005 | (0.003) | (0.002) | 32 mm Ø x 17 mm last |
| DSZU CH04 | . | (0.0007) | . | (7) | . | . | (0.0001) | . | (0.007) | . | . | . | (<0.0002) | . | ~30 mm x ~35 mm |
| DSZU CH05 | . | (0.03) | . | (20) | . | . | (0.001) | . | . | . | . | . | . | . | ~30 mm x ~35 mm |
| CZ 02033 4b | . | . | . | . | . | . | . | . | 0.004 | (0.001) | . | . | . | . | 40 mm Ø x 18 mm |
| Y 2582-6 | 0.0018 | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 mm Ø x 30 mm |
| VS ChG 2/9 | (0.003) | . | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| DSZU CH06 | . | (0.02) | . | (10) | . | . | . | . | . | . | . | . | 0.1 | . | ~35 mm x ~35 mm |
| CZ 20034 16c | (0.003) | 0.020 | . | . | . | . | . | . | 0.015 | 0.010 | . | . | 0.015 | (0.002) | 40 mm Ø x 18 mm |
| CZ 20034 16a | 0.005 | 0.018 | . | . | . | . | . | . | 0.006 | 0.011 | . | . | 0.019 | (0.002) | 40 mm Ø x 18 mm |
| CZ 20034 16b | 0.005 | 0.018 | . | . | . | . | . | . | 0.007 | 0.011 | . | . | 0.019 | (0.002) | 40 mm Ø x 18 mm |
| VS ChG 32 | . | . | 0.361 | . | . | . | . | . | . | . | . | . | . | . | ~35 mm Ø x ~20 mm |
| Y 2582-4 | 0.0017 | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 mm Ø x 30 mm |
| Y 451043 | . | . | . | . | . | . | . | . | . | 0.12 | . | . | . | . | 30 mm Ø x 30 mm last |
| 11X HPC5A | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 17 mm |
| Y 2582-5 | 0.0022 | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 mm Ø x 30 mm |
| VS ChG 1/9 | (0.003) | . | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| CZ 02033 7b | . | . | . | . | . | . | . | . | . | . | . | . | 0.045 | . | 40 mm Ø x 18 mm |
| CZ 02033 7c | . | 0.0008 | (0.002) | . | . | . | . | . | . | . | . | (0.006) | 0.037 | . | 40 mm Ø x 18 mm |
| DSZU CH03 | (0.004) | (0.001) | . | (20) | . | . | (0.0001) | . | (0.01) | . | . | . | (0.006) | . | ~30 mm x ~35 mm |
| VS ChG 3/9 | (0.003) | . | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| VS ChG 27 | . | . | . | . | . | . | . | . | . | 0.029 | . | . | . | . | ~40 mm Ø x ~40 mm |
| SCRM 660/10 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| VS ChG 5/9 | (0.003) | . | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| 11X C10C | 0.0200 | . | . | . | . | . | . | . | 0.0050 | 0.0095 | . | . | 0.327 | . | ~40 mm Ø x ~15 mm |
| Y 2863-5 | . | 0.060 | . | . | . | . | . | . | . | . | . | . | 0.158 | . | 30 mm Ø x 30 mm |
| 11X C2U | 0.0288 | 0.0213 | 0.0055 | . | . | . | . | 0.0110 | 0.023 | 0.104 | 0.0199 | . | 0.062 | . | ~40 mm Ø x ~15 mm |
| CZ 02033 8c | (0.006) | . | 0.009 | . | . | . | . | . | . | 0.008 | 0.014 | . | . | . | 40 mm Ø x 18 mm |
| 11X C3AB | 0.098 | 0.0054 | 0.0144 | . | . | . | . | 0.0095 | 0.022 | 0.245 | 0.0193 | . | 0.0520 | . | ~40 mm Ø x ~15 mm |
| VS ChL1/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| 11X HPC3J | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| VS ChG 1/5 | (0.002) | . | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~40 mm last |
| VS ChG 35 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~40 mm |
| KUT 120 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| NCS HS11783 | 0.0085 | . | . | . | . | . | . | . | . | 0.142 | . | . | . | . | 31 mm Ø x 28 mm |
| SCRM 658/11 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| Y 2863-3 | . | 0.056 | . | . | . | . | . | . | . | . | . | . | . | . | 30 mm Ø x 30 mm |
| KUT 121 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| KUT 205 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| KUT 206 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| KUT 122 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| KUT 123 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| NCS HS11784 | 0.0041 | . | 0.0083 | . | . | . | . | . | 0.0002 | 0.0007 | . | . | . | . | 31 mm Ø x 28 mm |
| Y 2582-3 | 0.009 | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 mm Ø x 30 mm |
| 11X HPC1H | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~15 mm |
| SCRM 665/4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| Number | As | B | Bi | Ca* | Ce | La | Mg | N | Pb | Sb | Se | Te | W | Zr | Units |
| 11X C9D | 0.068 | 0.0049 | . | . | . | . | . | . | 0.0052 | 0.149 | . | 0.011 | 0.304 | . | ~40 mm Ø x ~15 mm |
| VS ChG 4/9 | (0.003) | . | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| BAS NCRM3 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| 11X HPC1G | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 15 mm |
| NCS HS11782 | 0.0065 | . | . | . | . | . | . | . | . | . | . | . | . | . | 31 mm Ø x 28 mm |
| KUT 125 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| VS ChG 31 | . | . | 0.068 | . | . | . | . | . | . | . | . | . | . | . | ~35 mm Ø x ~20 mm |
| NCS HS11785 | 0.0049 | . | 0.013 | . | . | . | . | . | 0.0002 | 0.0005 | . | . | . | . | 31 mm Ø x 28 mm |
| DSZU CH02 | . | (0.016) | . | (10) | . | . | (0.002) | . | . | . | . | . | . | . | ~35 mm Ø x ~18 mm |
| VS ChM 12 | . | . | . | . | . | . | (0.08) | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| SCRM 671/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm x 37 mm x 12 mm |
| KUT 126 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| KUT 202 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| KUT 204 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| CZ 02033 6a | . | . | . | . | . | . | . | . | . | 0.056 | . | . | . | . | 40 mm Ø x 18 mm |
| KUT 127 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| KUT 203 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| CZ 02033 6c | . | 0.0024 | . | . | . | . | . | . | . | (0.003) | 0.044 | . | 0.007 | . | 40 mm Ø x 18 mm |
| CZ 02033 7a | . | . | . | . | . | . | . | . | . | . | . | . | 0.022 | . | 40 mm Ø x 18 mm |
| SCRM 653/4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm last |
| VS ChG 30 | . | . | 0.082 | . | . | . | . | . | . | . | . | . | . | . | ~35 mm Ø x ~20 mm |
| BAS NCRM1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| VS ChL3/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| DSZU CH08 | . | (0.08) | . | (10) | . | . | . | . | . | . | . | . | . | . | ~35 mm x ~35 mm |
| VS ChG 39 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~40 mm |
| BS CC-11 | 0.006 | 0.0012 | (<0.0005) | 2 | (0.001) | (0.001) | (0.013) | . | 0.0007 | 0.14 | . | (0.002) | (0.002) | (0.002) | 32 mm Ø x 17 mm last |
| BAS LARM2 | 0.044 | . | . | . | 0.008 | . | . | . | 0.007 | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| BAS LARM4 | . | . | . | . | 0.008 | . | . | . | 0.018 | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| BAS LARM1 | . | 0.006 | 0.011 | . | 0.005 | . | . | . | . | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| BAS LARM5 | 0.018 | 0.0012 | 0.0010 | . | . | . | . | . | 0.0005 | . | . | . | . | . | 40 mm x 37 mm x 10 mm last |
| BAS LARM3 | 0.092 | 0.003 | 0.022 | . | . | . | . | . | . | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| Y 2863-4 | . | 0.041 | . | . | . | . | . | . | . | . | . | . | . | . | 30 mm Ø x 30 mm |
| BAS LARM5/1 | . | 0.0016 | 0.0012 | . | . | . | . | . | <0.001 | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| BAS NCRM2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| KUT 124 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| CZ 02033 6b | . | . | . | . | . | . | . | . | . | 0.049 | . | . | . | . | 40 mm Ø x 18 mm |
| SCRM 662/4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| VS ChG 36 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~40 mm |
| SCRM 657/8 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| CZ 20034 12b | 0.024 | 0.047 | 0.006 | . | . | . | . | . | 0.009 | 0.046 | . | . | 0.007 | (0.002) | 40 mm Ø x 18 mm |
| SRM C1145a | (0.03) | (0.02) | . | . | . | . | . | . | 0.0012 | (0.04) | . | . | . | (0.002) | 32 mm Ø x 19 mm |
| 11X C1R ** | 0.01 | 0.04 | 0.003 | . | ** Provisional Analysis | . | . | 0.01 | 0.003 | 0.05 | 0.005 | . | 0.09 | 0.002 | ~40 mm Ø x ~15 mm |
| VS ChG34 | . | . | 0.223 | . | . | . | . | . | . | . | . | . | . | . | ~35 mm Ø x ~20 mm |
| SCRM 664/4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| CZ 20034 12a | 0.022 | 0.036 | 0.005 | . | . | . | . | . | 0.007 | 0.046 | . | . | 0.011 | (0.002) | 40 mm Ø x 18 mm |
| NCS HS11786 | 0.0075 | . | 0.015 | . | . | . | . | . | 0.0003 | 0.0008 | . | . | . | . | 31 mm Ø x 28 mm |
| KUT 201 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 x 30 x 13 mm |
| Number | As | B | Bi | Ca* | Ce | La | Mg | N | Pb | Sb | Se | Te | W | Zr | Units |

CAST IRON WITH C < 2.75%

= Class, 1 = CRM and 2 = RM

analysis in mass % except * = mg/kg

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Co | Mo | Nb | Sn | Ti | V | Zn |
|---|--------------|-------|-------|--------|--------|-------|-------|--------|-------|--------|--------|-------|---------|---------|-------|--------|--------|
| 1 | VS ChL4/1 | 2.69 | 1.37 | 0.054 | 0.027 | 1.99 | 0.161 | 0.725 | 0.92 | . | 0.017 | 0.116 | . | . | 0.11 | 0.258 | . |
| 1 | SRM C1291 | 2.67 | 1.14 | 0.028 | 0.032 | 1.34 | 0.26 | 4.34 | 2.78 | . | . | 0.32 | . | . | . | 0.031 | . |
| 1 | VS ChG 6/9 | 2.65 | 0.83 | 0.54 | 0.027 | 0.53 | 0.34 | . | 0.241 | . | . | . | . | . | 0.028 | 0.130 | . |
| 1 | DSZU CH01 | 2.61 | 0.258 | 0.012 | 0.0045 | 1.95 | 0.097 | 0.072 | 0.88 | 0.079 | (0.06) | 0.070 | (0.010) | (0.05) | 0.132 | 0.134 | . |
| 1 | VS ChG 40 | 2.59 | 1.56 | 0.059 | 0.019 | 1.60 | 0.98 | 1.61 | 1.47 | . | . | 0.229 | . | . | 0.18 | 0.325 | . |
| 1 | SCRM 661/4 | 2.56 | 0.30 | 0.84 | 0.068 | 2.96 | . | . | (1) | . | . | . | . | . | . | . | . |
| 1 | SCRM 656/9 | 2.537 | 0.820 | 0.060 | 0.108 | 2.504 | . | . | . | . | . | . | . | . | . | . | . |
| 1 | 11X C5X | 2.52 | 0.846 | 0.080 | 0.096 | 2.09 | 1.80 | 1.595 | 1.11 | 0.05 | 0.0558 | 0.471 | 0.0403 | 0.0371 | 0.056 | 0.089 | 0.019 |
| 1 | 11X C7N | 2.51 | 1.942 | 0.0266 | 0.0101 | 0.829 | 0.075 | 0.0303 | 0.507 | 0.0127 | 0.0335 | 0.071 | 0.051 | 0.0114 | 0.022 | 0.036 | 0.0226 |
| 1 | Y 2863-2 | 2.50 | 1.83 | 0.069 | 0.026 | 3.14 | 0.020 | 3.73 | 0.136 | . | . | 0.096 | . | . | 0.066 | 0.61 | . |
| 1 | VS ChG 37 | 2.49 | 0.92 | 0.038 | 0.046 | 2.03 | 0.512 | 0.90 | 0.82 | . | . | 0.55 | . | . | 0.092 | 0.227 | . |
| 1 | SCRM 673 | 2.47 | 0.133 | 0.328 | 0.006 | 1.72 | 0.023 | 0.147 | 0.037 | 0.028 | 0.053 | 0.006 | . | 0.0191 | 0.072 | 0.059 | 0.0004 |
| 1 | CZ 20034 11b | 2.44 | 0.382 | 0.271 | 0.140 | 3.67 | 0.130 | 0.082 | 1.178 | 0.067 | 0.005 | 1.144 | . | 0.074 | 0.041 | 0.182 | . |
| 1 | VS ChG 38 | 2.43 | 0.302 | 0.386 | 0.084 | 2.30 | 1.20 | 0.162 | 1.98 | . | . | 0.046 | . | . | 0.105 | 0.119 | . |
| 1 | CZ 02033 5b | 2.42 | 0.812 | 0.033 | 0.073 | 1.32 | 0.031 | 0.188 | 0.061 | 0.062 | . | 0.089 | . | . | 0.007 | 0.005 | . |
| 1 | VS ChL2/1 | 2.38 | 1.03 | 0.054 | 0.023 | 0.55 | 0.97 | 0.114 | 0.077 | . | 0.013 | 0.012 | . | . | 0.009 | 0.050 | . |
| 1 | CZ 20034 11a | 2.37 | 0.343 | 0.271 | 0.163 | 3.31 | 0.086 | 0.084 | 1.219 | 0.046 | 0.005 | 1.130 | . | 0.070 | 0.028 | 0.184 | . |
| 1 | SCRM 652/4 | 2.34 | 1.19 | 0.071 | 0.129 | 0.878 | . | . | (1) | . | . | . | . | . | . | . | . |
| 1 | DSZU CH07 | 2.33 | 1.36 | 0.090 | 0.064 | 3.01 | 0.35 | 0.403 | 0.34 | 0.036 | . | 0.66 | (0.08) | (0.07) | 0.150 | 0.52 | . |
| 1 | CZ 02033 5a | 2.30 | 0.804 | 0.035 | 0.100 | 1.26 | 0.014 | 0.096 | 0.054 | 0.060 | . | 0.100 | . | . | 0.008 | 0.005 | . |
| 1 | CZ 02033 5c | 2.30 | 0.704 | 0.027 | 0.091 | 1.40 | 0.013 | 0.188 | 0.085 | 0.103 | 0.013 | 0.104 | . | (0.002) | 0.008 | 0.054 | . |
| 1 | SCRM 675 | 1.92 | 1.81 | 0.045 | 0.072 | 1.29 | 0.012 | 0.210 | 0.080 | 0.007 | 0.023 | 0.034 | . | 0.0062 | 0.007 | 0.178 | 0.0006 |
| 1 | SCRM 655/4 | 1.90 | 0.44 | 0.180 | 0.076 | 2.110 | . | . | (1) | . | . | . | . | . | . | . | . |
| 1 | 11X C4R | 1.86 | 0.493 | 0.108 | 0.098 | 2.92 | 0.345 | 2.02 | 1.531 | 0.040 | 0.0316 | 0.101 | 0.0373 | 0.0102 | 0.080 | 0.0208 | 0.0083 |
| 1 | CKD 242A | 1.84 | 0.060 | 0.039 | 0.036 | 3.06 | 0.055 | 0.039 | 0.029 | 0.036 | 0.002 | 1.13 | 0.013 | 0.010 | 0.19 | 0.37 | (0.00) |
| 1 | CKD 241B (U) | 1.84 | 0.060 | 0.007 | 0.123 | 3.15 | 0.011 | 0.021 | 0.683 | 0.003 | 0.004 | 0.61 | 0.003 | (0.003) | 0.001 | 0.080 | 0.000 |
| 1 | Y 2863-1 | 1.78 | 2.41 | 0.021 | 0.009 | 3.62 | 0.022 | 4.77 | 0.031 | . | . | 0.038 | 0.0052 | . | 0.068 | 1.13 | . |

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Co | Mo | Nb | Sn | Ti | V | Zn | |
|--------------|---------|--------|---------|-----------|--------|----------|--------|---------|--------|---------|---------|---------|---------|---------|----|---|----|--------------------------|
| | | | | | | | | | | | | | | | | | | |
| Number | As | B | Bi | Ca* | Ce | Mg | N | Pb | Sb | Se | Te | W | Zr | Units | | | | |
| VS ChL4/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| SRM C1291 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 32 mm Ø x 19 mm |
| VS ChG 6/9 | (0.003) | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| DSZU CH01 | . | (0.03) | . | (10) | . | (0.0005) | . | . | . | . | . | . | (0.02) | . | . | . | . | ~30 mm x ~35 mm |
| VS ChG 40 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~40 mm |
| SCRM 661/4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| SCRM 656/9 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| 11X C5X | 0.0199 | 0.011 | 0.0108 | . | . | . | 0.0171 | 0.0295 | 0.0265 | 0.005 | 0.0010 | 0.031 | 0.0050 | . | . | . | . | ~40 mm Ø x ~15 mm |
| 11X C7N | 0.0159 | 0.0097 | 0.0137 | . | . | . | 0.025 | 0.0106 | 0.025 | . | . | 0.066 | (0.003) | . | . | . | . | 40 mm Ø x 15 mm |
| Y 2863-2 | . | 0.0025 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 mm Ø x 30 mm |
| VS ChG 37 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~40 mm |
| SCRM 673 | 0.044 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| CZ 20034 11b | 0.005 | 0.0032 | 0.007 | . | . | . | . | 0.007 | 0.011 | . | . | . | (0.005) | 0.007 | . | . | . | 40 mm Ø x 18 mm |
| VS ChG 38 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~40 mm Ø x ~40 mm |
| CZ 02033 5b | . | 0.014 | 0.020 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 18 mm |
| VS ChL2/1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | ~38 mm Ø x ~38 mm |
| CZ 20034 11a | 0.005 | 0.0018 | 0.011 | . | . | . | . | 0.017 | 0.013 | . | . | . | (0.005) | 0.007 | . | . | . | 40 mm Ø x 18 mm |
| SCRM 652/4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| DSZU CH07 | . | (0.13) | . | (10) | . | (0.01) | . | . | . | . | . | . | . | . | . | . | . | ~35 mm x ~35 mm |
| CZ 02033 5a | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm Ø x 18 mm |
| CZ 02033 5c | . | 0.0078 | 0.007 | . | . | . | . | . | . | (0.002) | (0.010) | . | . | (0.009) | . | . | . | 40 mm Ø x 18 mm |
| SCRM 675 | 0.035 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 mm x 37 mm x 10 mm |
| SCRM 655/4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 48 mm x 42 mm x 12 mm |
| 11X C4R | 0.0050 | 0.0086 | 0.0144 | Ag: 0.008 | . | 0.0078 | 0.019 | 0.015 | 0.021 | . | . | 0.120 | 0.0031 | . | . | . | . | ~40 mm Ø x ~15 mm |
| CKD 242A | 0.015 | 0.008 | (0.015) | . | (0.00) | 0.000 | . | (0.012) | 0.007 | . | (0.08) | (0.007) | (0.000) | . | . | . | . | 37mm x 37mm x 18 or 20mm |
| CKD 241B (U) | 0.002 | 0.001 | . | . | . | 0.000 | 0.0053 | 0.001 | 0.139 | . | . | . | 0.001 | last | . | . | . | 37 mm x 37 mm x ~18mm |
| Y 2863-1 | . | 0.0024 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 30 mm Ø x 30 mm |

| Number | As | B | Bi | Ca* | Ce | Mg | N | Pb | Sb | Se | Te | W | Zr | Units | | | |
|--------|----|---|----|-----|----|----|---|----|----|----|----|---|----|-------|--|--|--|
|--------|----|---|----|-----|----|----|---|----|----|----|----|---|----|-------|--|--|--|

| # | Number | ALLOYED CAST IRON | | | | | # = Class, where 1 = CRM and 2 = RM | | | | | * Provisional Analysis | | | Mg | N | |
|---|----------------|-------------------|-------|--------|--------|-------|-------------------------------------|-------|-------|----------|--------|------------------------|--------|---------|--------|----------|-------|
| | | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Mo | Pb | Sn | Ti | | | V |
| 2 | BAS NCRM5 | 3.70 | 0.27 | 0.025 | 0.015 | 1.15 | 0.204 | 6.74 | 10.44 | . | 0.10 | . | . | . | 0.06 | . | . |
| 1 | SRM C1292 | 3.47 | 0.55 | 0.049 | 0.016 | 0.99 | 0.36 | 5.94 | 11.4 | . | 0.25 | . | . | 0.041 | . | . | |
| 2 | BAS CRM5/2 | 3.24 | 0.30 | 0.029 | 0.013 | 0.13 | 0.23 | 0.86 | 30.35 | 0.15 | 0.63 | . | . | 0.009 | 0.11 | . | |
| 1 | Y 451052-1 | 3.31 | 1.54 | 0.369 | 0.0047 | 0.098 | 0.449 | 2.57 | 1.17 | . | 1.47 | . | . | 0.952 | . | . | |
| 1 | BS PM15 | 3.54 | 0.416 | 0.0198 | 0.0127 | 0.912 | 0.142 | 0.203 | 5.33 | 0.0025 | 1.22 | (0.00001) | 0.0034 | 0.0029 | 14.79 | (0.0002) | 0.111 |
| 1 | VS CHG41 | 3.53 | 0.323 | 0.032 | 0.015 | 1.08 | 0.494 | 5.44 | 8.58 | . | 0.603 | . | . | 0.255 | 0.204 | . | . |
| 1 | Y 451052-7 | 3.13 | 0.201 | 0.024 | 0.116 | 2.48 | 0.154 | 0.129 | 31.26 | . | 0.086 | . | . | 0.033 | 0.087 | . | . |
| 1 | 11X 15309S | 3.05 | 1.506 | 0.040 | 0.086 | 1.398 | 0.505 | 0.919 | 23.26 | . | 0.249 | . | . | 0.0156 | 0.056 | . | . |
| 1 | SRM C1290 | 3.04 | 0.60 | 0.029 | 0.013 | 0.20 | 0.23 | 0.87 | 30.35 | . | 0.63 | . | . | 0.442 | . | . | |
| 1 | Y TSK205 | 3.03 | 0.16 | 0.041 | 0.088 | 1.65 | 0.35 | 0.37 | 30.35 | . | 0.22 | . | . | 0.077 | . | 0.108 | |
| 1 | Y 451054-2 | 3.00 | 1.42 | 0.133 | 0.016 | 0.56 | 0.324 | 1.43 | 7.23 | . | 2.48 | . | . | 0.015 | 0.88 | . | . |
| 1 | NCS H511788 | 2.97 | 1.62 | 0.191 | 0.010 | 3.29 | 0.51 | 17.77 | 2.56 | (0.0023) | 0.0013 | . | 0.0003 | 0.043 | 0.017 | . | . |
| 1 | Y 451052-2 | 2.96 | 1.24 | 0.211 | 0.0077 | 0.491 | 1.57 | 1.99 | 9.75 | . | 2.17 | . | . | 0.300 | 0.669 | . | . |
| 2 | BAS NIRM5/1 | 2.95 | 1.01 | 0.103 | 0.005 | 1.50 | 0.21 | 21.7 | 0.51 | . | 0.51 | . | . | 0.055 | . | . | . |
| 2 | BAS CRM4/2 | 2.93 | 0.58 | 0.049 | 0.042 | 0.45 | 0.23 | 0.58 | 21.93 | <0.005 | 1.15 | . | . | 0.008 | 0.11 | . | . |
| 2 | 11X 20003K | 2.91 | 1.53 | 0.174 | 0.007 | 3.03 | 0.52 | 17.8 | 2.53 | . | 2.53 | . | . | . | . | . | . |
| 1 | 11X S/1 Cr3J | 2.91 | 0.861 | 0.072 | 0.023 | 1.07 | 9.01 | 14.53 | 1.61 | . | . | . | . | . | . | . | . |
| 2 | 11X 20001J | 2.90 | 0.58 | 0.005 | 0.143 | 1.01 | 0.01 | 21.4 | 1.50 | . | . | . | . | . | . | . | . |
| 2 | 11X S/2 Cr1E | 2.83 | 1.68 | 0.31 | 0.011 | 2.85 | 0.02 | 16.5 | 2.48 | . | 2.48 | . | . | . | . | . | . |
| 1 | 11X 0331-1J | 2.82 | 1.646 | 0.069 | 0.13 | 2.80 | 7.59 | 11.43 | 0.607 | 0.122 | 0.120 | 0.0327 | 0.0439 | 0.1099 | . | . | . |
| 2 | 11X S/2 Cr4D | 2.82 | 0.97 | 0.049 | 0.010 | 2.59 | 0.24 | 20.7 | 1.10 | . | . | . | . | . | . | . | . |
| 2 | BAS NIRM2/1 | 2.81 | 2.08 | 0.129 | 0.010 | 1.50 | 5.98 | 13.95 | 1.48 | . | . | . | . | . | 0.050 | . | . |
| 1 | Y 451054-3 | 2.73 | 1.09 | 0.105 | 0.036 | 0.99 | 0.451 | 1.20 | 12.97 | . | 2.08 | . | . | 0.045 | 0.66 | . | . |
| 1 | 11X 15310A | 2.71 | 1.45 | 0.051 | 0.0278 | 0.892 | 2.64 | 5.66 | 21.22 | . | 0.980 | . | . | 0.071 | . | . | . |
| 1 | VS CHG45 | (2.7) | 1.01 | 0.096 | 0.047 | 2.96 | 0.040 | 0.60 | 32.65 | . | 0.198 | . | . | 0.011 | 0.111 | . | . |
| 2 | 11X 20002J | 2.67 | 1.06 | 0.060 | 0.045 | 2.04 | 0.30 | 20.0 | 2.03 | . | 2.03 | . | . | . | . | . | . |
| 2 | BAS NCRM4 | 2.66 | 0.40 | 0.203 | 0.012 | 2.13 | 0.68 | 5.34 | 7.94 | . | 0.57 | . | . | 0.11 | . | . | . |
| 1 | NCS H511787 | 2.65 | 1.08 | 0.067 | 0.037 | 2.07 | 0.306 | 19.84 | 1.98 | (0.085) | 0.0014 | . | 0.0054 | 0.022 | 0.0096 | . | . |
| 1 | 11X 0331-2K | 2.64 | 1.272 | 0.049 | 0.119 | 2.32 | 6.47 | 14.26 | 1.025 | 0.191 | 0.0644 | 0.0205 | 0.0205 | 0.14 | 0.0158 | . | . |
| 2 | 11X S/3 Cr1D | 2.61 | 0.7 | 0.046 | 0.011 | 2.52 | 0.19 | 31.7 | 0.15 | . | . | . | . | . | . | . | . |
| 1 | Y TSK201 | 2.56 | 1.07 | 0.253 | 0.023 | 0.66 | 1.53 | 2.44 | 10.14 | . | 2.56 | . | . | 0.42 | . | 0.029 | . |
| 2 | BAS NIRM3 | 2.51 | 0.51 | 0.208 | 0.096 | 2.21 | 1.00 | 17.8 | 2.43 | . | . | . | . | . | . | . | . |
| 2 | 11X S/3 Cr3B | 2.49 | 0.66 | 0.053 | 0.050 | 2.44 | 0.23 | 29.4 | 4.06 | . | . | . | . | . | . | . | . |
| 1 | 11X 15295R * | 2.48 | 0.5 | 0.05 | 0.04 | 0.59 | 0.19 | 0.3 | 27.3 | 0.19 | 0.39 | . | 0.05 | 0.2 | . | . | . |
| 2 | BAS NIRM6 | 2.44 | 4.00 | 0.217 | 0.062 | 2.43 | 0.10 | 26.7 | 1.07 | . | 0.45 | . | . | . | . | . | . |
| 1 | Y 451052-3 | 2.40 | 1.06 | 0.115 | 0.015 | 0.821 | 0.953 | 1.55 | 13.30 | . | 0.869 | . | . | 0.171 | 0.482 | . | . |
| 2 | BAS CRM3/2 | 2.37 | 0.92 | 0.073 | 0.087 | 1.21 | 1.09 | 1.35 | 18.78 | 0.102 | 1.58 | . | . | 0.015 | 0.042 | . | . |
| 1 | Y 451054-4 | 2.31 | 0.725 | 0.071 | 0.046 | 1.40 | 0.739 | 0.914 | 17.60 | . | 1.44 | . | . | 0.084 | 0.46 | . | . |
| 1 | 11X 15294V * | 2.3 | 0.46 | 0.09 | 0.03 | 0.4 | 0.13 | 0.65 | 30.8 | 0.18 | 0.32 | 0.008 | 0.06 | 0.001 | 0.12 | . | . |
| 1 | VS CHG42 | 2.27 | 2.43 | 0.022 | 0.017 | 0.478 | 1.09 | 0.149 | 14.45 | . | 1.90 | . | . | . | 0.38 | . | . |
| 1 | CKD 251 | 2.25 | 1.97 | 0.015 | 0.015 | 1.14 | 0.38 | 19.7 | 1.07 | (0.02) | 0.12 | (0.009) | (0.01) | (0.005) | (0.02) | 0.022 | . |
| 1 | Y TSK200 | 2.11 | 0.82 | 0.319 | 0.022 | 0.17 | 1.86 | 3.22 | 4.97 | . | 3.50 | . | . | 0.60 | . | 0.021 | 0.021 |
| 2 | BAS NIRM1 | 2.05 | 6.72 | 0.055 | 0.005 | 3.15 | 0.20 | 11.80 | 0.246 | . | . | . | . | . | . | 0.021 | . |
| 2 | BAS NIRM7 | 2.05 | 0.71 | 0.058 | 0.020 | 3.05 | 0.52 | 32.9 | 3.53 | . | 0.99 | . | . | . | . | 0.019 | . |
| 1 | Y 451052-4 | 2.00 | 0.803 | 0.090 | 0.025 | 1.16 | 0.738 | 1.07 | 18.28 | . | 0.598 | . | . | 0.087 | 0.380 | . | . |
| 2 | BAS NIRM4 | 1.97 | 2.37 | 0.051 | 0.008 | 3.03 | 0.52 | 20.2 | 3.56 | . | . | . | . | . | . | 0.014 | . |
| 1 | NCS H511789 | 1.97 | 1.08 | 0.048 | 0.076 | 2.58 | 6.39 | 17.80 | 2.51 | 0.061 | 0.062 | 0.015 | 0.014 | 0.011 | 0.0093 | . | . |
| 2 | BAS CRM2/1 | 1.92 | 1.11 | 0.097 | 0.079 | 1.18 | 1.59 | 1.61 | 14.13 | 0.054 | 2.44 | . | . | 0.070 | 0.063 | . | . |
| 2 | BAS CRM1/1 | 1.83 | 1.45 | 0.132 | 0.099 | 1.53 | 2.01 | 2.03 | 11.18 | 0.117 | 3.05 | . | . | 0.096 | 0.040 | . | . |
| 1 | Y 451054-5 | 1.83 | 0.466 | 0.043 | 0.091 | 1.80 | 0.904 | 0.517 | 23.40 | . | 0.739 | . | . | 0.068 | 0.26 | . | . |
| 1 | Y TSK202 | 1.81 | 1.16 | 0.201 | 0.057 | 2.00 | 1.10 | 1.91 | 15.42 | . | 2.20 | . | . | . | 0.33 | . | 0.075 |
| 1 | Y 451052-5 | 1.48 | 0.579 | 0.041 | 0.058 | 1.37 | 0.583 | 0.708 | 22.55 | . | 0.359 | . | . | 0.056 | 0.314 | . | . |
| 2 | BAS NIRM8/2 | 1.45 | 1.58 | 0.105 | 0.014 | 5.61 | 0.23 | 35.3 | 2.47 | . | 0.77 | . | . | . | 0.033 | . | . |
| 1 | Y 451054-6 | 1.45 | 0.254 | 0.024 | 0.123 | 2.38 | 1.15 | 0.216 | 28.96 | . | 0.213 | . | . | 0.084 | 0.13 | . | . |
| 2 | BAS NIRM8/1 | 1.34 | 1.60 | 0.109 | 0.010 | 5.42 | 0.23 | 35.2 | 2.34 | . | 0.75 | . | . | . | 0.043 | . | . |
| 1 | VS CHG44 | 1.24 | 0.87 | (1.2) | 0.076 | 1.50 | 2.27 | 0.175 | 25.44 | . | 0.035 | . | . | 0.104 | 0.079 | . | . |
| 1 | Y TSK203 | 1.23 | 0.68 | 0.117 | 0.044 | 0.46 | 0.75 | 1.55 | 19.93 | . | 1.58 | . | . | . | 0.22 | . | 0.094 |
| 1 | Y 451052-6 | 1.16 | 0.302 | 0.033 | 0.086 | 1.44 | 0.845 | 0.289 | 25.76 | . | 0.150 | . | . | 0.019 | 0.146 | . | . |
| 1 | Y TSK204 | 0.91 | 0.34 | 0.078 | 0.063 | 1.00 | 0.53 | 0.97 | 25.37 | . | 0.95 | . | . | 0.14 | . | 0.114 | . |

| # | Number | C | Mn | P | S | Si | Cu | Ni | Cr | Al | Mo | Pb | Sn | Ti | V | Mg | N |
|---|----------------|-----------|-----------|-----------|----------|-----------|-----------------------|--------------|-----------|-----------|---------|----------|----|----|---|----|---|
| | Number | Ce | Co | Nb | W | Zr | Units | Other | | | | | | | | | |
| | BAS NCRM5 | . | . | . | . | . | 40 mm x 37 mm x 10 mm | | | | | | | | | | |
| | SRM C1292 | . | . | . | . | . | 32 mm Ø x 19 mm | | | | | | | | | | |
| | BAS CRM5/2 | . | . | . | . | . | 48 mm x 42 mm x 12 mm | | | | | | | | | | |
| | Y 451052-1 | B:0.177 | . | 0.018 | 0.015 | . | 30 mm Ø x 30 mm | | | | | | | | | | |
| | BS PM15 | . | 0.0330 | 0.014 | 0.109 | (0.0005) | 38 mm Ø x 19+ mm | 17025 | Fe:[73.0] | As:0.0040 | N:0.111 | O:0.0129 | | | | | |
| | VS CHG41 | . | . | . | . | . | ~35 mm Ø x ~17 mm | last | | | | | | | | | |
| | Y 451052-7 | B:0.015 | . | 0.010 | 0.175 | . | 30 mm Ø x 30 mm | | | | | | | | | | |
| | 11X 15309S | . | 0.032 | 0.0192 | 0.015 | . | ~40 mm Ø x ~15 mm | | | | | | | | | | |
| | SRM C1290 | . | . | . | . | . | 32 mm Ø x 19 mm | | | | | | | | | | |
| | Y TSK205 | . | . | . | . | . | 35 mm Ø x 30 mm | | | | | | | | | | |
| | Y 451054-2 | . | . | . | . | . | 30 mm Ø x 30 mm | | | | | | | | | | |
| | NCS H511788 | B:0.0008 | (0.0063) | . | (0.0002) | . | 31 mm Ø x 28 mm | As: 0.014 | | | | | | | | | |
| | Y 451052-2 | B:0.142 | . | 0.182 | 1.99 | . | 30 mm Ø x 30 mm | | | | | | | | | | |
| | BAS NIRM5/1 | 0.016 | . | 0.15 | . | . | 48 mm x 42 mm x 12 mm | | | | | | | | | | |
| | BAS CRM4/2 | . | . | . | . | . | 48 mm x 42 mm x 12 mm | | | | | | | | | | |
| | 11X 20003K | . | . | . | . | . | 40 mm Ø x 15 mm | | | | | | | | | | |
| | 11X S/1 Cr3J | . | . | . | . | . | ~40 mm Ø x ~15 mm | | | | | | | | | | |
| | 11X 20001K | . | . | . | . | . | 40 mm Ø x 15 mm | | | | | | | | | | |
| | 11X S/2 Cr1E | . | . | . | . | . | 40 mm Ø x 15 mm | | | | | | | | | | |
| | 11X 0331-1J | . | 0.1117 | 0.149 | . | . | ~40 mm Ø x ~15 mm | | | | | | | | | | |
| | 11X S/2 Cr4D | . | . | . | . | . | 40 mm Ø x 15 mm | | | | | | | | | | |
| | BAS NIRM2/1 | 0.015 | . | . | . | . | 48 mm x 42 mm x 12 mm | | | | | | | | | | |
| | Y 451054-3 | . | . | . | . | . | | | | | | | | | | | |

RM CAST IRON MUSHROOMS

CONTINUED ON THE NEXT PAGE

typical analysis

each unit is one pair of 43 mm Ø x 5 mm mushroom discs

| Number | C | Si | Mn | P | S | Cu | Ni | Cr | Al | Co | Mo | Sn | Ti | V | W |
|-------------|-------|--------|-------|--------|----------|---------|--------|---------|---------|---------|--------|--------|--------|--------|--------|
| CTIF FO19 | 4.04 | 1.05 | 1.05 | 0.032 | 0.057 | . | . | . | . | . | . | . | . | . | . |
| CTIF FO12 | 3.71 | 1.86 | 0.44 | 0.038 | 0.004 | 0.77 | . | . | 0.008 | . | . | 0.011 | . | . | . |
| CTIF FO8 | 3.6 | 1.04 | 0.37 | 0.107 | 0.021 | 0.215 | 0.30 | 0.30 | . | . | 0.005 | 0.05 | 0.055 | 0.014 | . |
| CTIF FCR7 | 3.59 | 1.07 | 0.365 | 0.099 | 0.0427 | 0.704 | 0.947 | 33.65 | . | . | 2.62 | . | . | . | . |
| CTIF FO6 | 3.49 | 0.55 | 0.715 | 0.87 | 0.106 | 0.120 | 0.128 | 0.45 | . | . | 0.202 | 0.039 | 0.080 | 0.110 | . |
| CTIF FO10 | 3.5 | 0.67 | 1.05 | 0.20 | 0.101 | 0.114 | 0.118 | 0.38 | . | . | 0.20 | . | 0.1 | 0.08 | . |
| CTIF NH3 | 3.47 | 0.85 | 0.175 | 0.36 | 0.024 | 0.031 | 2.53 | 1.76 | . | . | 0.73 | . | . | . | . |
| CTIF FO11 | 3.45 | 1.57 | 0.685 | 0.052 | 0.103 | 0.211 | 0.235 | 0.34 | . | (0.013) | 0.225 | 0.066 | 0.078 | 0.113 | . |
| CTIF FO18 | 3.43 | 1.24 | 0.590 | 1.34 | 0.136 | 0.049 | 0.140 | 0.170 | . | . | 0.179 | 0.046 | 0.057 | 0.102 | . |
| CTIF NH7-1 | 3.43 | 0.95 | 0.63 | 0.035 | 0.022 | 0.105 | 5.53 | 9.02 | . | . | . | . | . | . | . |
| CTIF FCR5 | 3.43 | 0.35 | 0.62 | 0.052 | 0.0175 | 1.02 | 2.69 | 28.5 | . | . | 3.27 | . | . | . | . |
| CTIF FT2-1 | 3.39 | 1.415 | 0.78 | 0.045 | 0.095 | 0.01 | 0.070 | 0.030 | . | . | . | . | 0.100 | 0.405 | . |
| CTIF NiMo1 | 3.22 | 2.585 | 0.200 | 0.0590 | (0.0030) | 0.376 | 2.165 | 0.0353 | . | 0.0205 | 0.457 | 0.0020 | 0.0190 | 0.0169 | . |
| CTIF FL7 | 3.22 | 2.550 | 0.100 | 1.34 | 0.048 | 0.351 | 0.232 | 0.043 | . | . | 0.335 | 0.0291 | 0.0525 | 0.0796 | . |
| CTIF FT3 | 3.2 | 1.55 | 0.345 | 0.063 | 0.051 | 0.015 | 0.092 | 0.685 | . | . | . | . | 0.2 | 0.016 | . |
| CTIF NH7-2 | 3.2 | 1.20 | 0.91 | 0.034 | 0.0120 | 0.108 | 5.53 | 8.87 | . | . | . | . | . | . | . |
| CTIF FO5 | 3.2 | 0.7 | 0.2 | 1.30 | 0.027 | 0.12 | 0.172 | 0.3 | . | . | 0.41 | 0.109 | 0.04 | 0.14 | . |
| CTIF NH9 | 3.13 | 1.24 | 0.65 | 0.087 | 0.029 | 0.203 | 4.11 | 11.70 | . | . | 0.059 | . | . | . | . |
| CTIF NR Cu1 | 3.12 | 1.465 | 0.172 | 0.090 | 0.99 | 4.95 | 18.02 | 0.994 | (0.095) | . | 0.50 | 0.005 | 0.15 | 0.033 | . |
| CTIF FL6 | 3.1 | 1.4 | 0.6 | 0.012 | 0.18 | 0.079 | 1.03 | 0.167 | . | 0.028 | . | . | . | . | . |
| CTIF FL10 | 3.1 | 1.3 | 0.85 | 0.323 | 0.066 | 0.104 | 0.10 | (0.07) | (0.03) | . | 0.0335 | 0.028 | 0.045 | 0.048 | (0.02) |
| CTIF FFA 1 | 3.090 | 0.0300 | 0.100 | 0.0022 | 0.0009 | 0.0622 | 0.0450 | 0.0710 | . | 0.0097 | 0.0109 | . | 0.0010 | 0.0010 | . |
| CTIF NR 8S | 3.05 | 1.41 | 4.39 | 0.124 | 0.071 | 14.20 | 0.191 | . | . | . | . | . | . | . | . |
| CTIF FO17 | 3.01 | 2.48 | 0.475 | 0.470 | 0.168 | (0.006) | 0.021 | (0.016) | . | 0.032 | . | 0.024 | 0.032 | 0.018 | . |
| CTIF FAL 1 | 3.0 | 1.0 | 0.2 | 0.04 | <0.001 | 0.2 | 0.06 | 0.04 | 2.1 | . | 0.015 | . | 0.01 | . | . |
| CTIF NR 3L | 2.99 | 3.05 | 0.72 | 0.088 | 0.052 | 0.26 | 21.58 | 2.97 | . | . | . | . | . | . | . |
| CTIF NH1 | 2.98 | 1.35 | 0.90 | 0.060 | 0.105 | 1.99 | 1.38 | 0.83 | . | . | 1.45 | . | . | . | . |
| CTIF NH8 | 2.98 | 0.80 | 0.57 | 0.052 | 0.076 | 0.065 | 8.16 | 5.03 | . | . | 0.125 | . | . | . | . |
| CTIF NR 3S | 2.92 | 2.91 | 0.77 | 0.024 | 0.025 | 0.33 | 24.63 | 3.05 | . | . | . | . | . | . | . |
| CTIF FT1 | 2.9 | 2.12 | 0.71 | 0.12 | 0.025 | 0.012 | 0.11 | 0.057 | . | . | . | 0.067 | 0.19 | 0.525 | . |

| Number | C | Si | Mn | P | S | Cu | Ni | Cr | Al | Co | Mo | Sn | Ti | V | W |
|--------------|------|-------|--------|--------|---------|--------|--------|-------|---------|---------|---------|-------|--------|-------|---|
| CTIF NR 8L | 2.89 | 1.70 | 5.19 | 0.054 | 0.030 | 0.075 | 13.33 | 0.165 | . | . | . | . | . | . | . |
| CTIF NH4 | 2.84 | 0.49 | 0.28 | 0.12 | 0.022 | 0.09 | 3.60 | 2.46 | . | . | 0.30 | . | . | . | . |
| CTIF FO4 | 2.81 | 1.51 | 0.64 | 0.58 | 0.009 | 0.31 | 0.32 | 0.17 | . | . | 0.095 | 0.013 | 0.075 | 0.049 | . |
| CTIF FCR2 | 2.86 | 1.07 | 0.740 | 0.137 | 0.055 | 0.135 | 1.87 | 11.8 | . | . | 3.88 | . | . | . | . |
| CTIF FL5 | 2.8 | 2.3 | 0.4 | 0.02 | (0.005) | 0.5 | 0.05 | 0.35 | . | 0.010 | 0.01 | 0.07 | 0.01 | 0.01 | . |
| CTIF FCR Ni3 | 2.74 | 0.69 | 0.47 | 0.036 | 0.011 | . | 11.05 | 31.65 | . | . | . | . | . | . | . |
| CTIF NH6 | 2.70 | 2.28 | 0.355 | 0.066 | 0.036 | 0.115 | 7.06 | 6.60 | . | . | 0.11 | . | . | . | . |
| CTIF FO9 | 2.7 | 1.5 | 0.7 | 0.02 | 0.015 | 0.31 | 0.355 | 0.18 | . | . | 0.13 | 0.144 | 0.017 | 0.022 | . |
| CTIF FL4 | 2.6 | 2.91 | 0.5 | 0.288 | 0.137 | 0.0168 | 0.061 | 0.45 | . | . | 0.090 | 0.011 | 0.0296 | 0.116 | . |
| CTIF NR 1S | 2.58 | 3.02 | 1.54 | 0.19 | 0.0015 | 0.11 | 20.60 | 2.00 | . | . | . | . | . | . | . |
| CTIF NR 1L | 2.50 | 3.00 | 1.34 | 0.125 | 0.10 | 0.49 | 25.87 | 1.74 | . | . | . | . | . | . | . |
| CTIF NH2 | 2.50 | 1.81 | 1.04 | 0.047 | 0.058 | 1.02 | 1.78 | 1.26 | . | . | 1.01 | . | . | . | . |
| CTIF NR Cu2 | 2.48 | 2.07 | 1.078 | 0.113 | 0.049 | 6.50 | 15.85 | 2.05 | . | . | . | . | . | . | . |
| CTIF NR 4S | 2.47 | 4.87 | 1.71 | 0.145 | 0.066 | 0.63 | 18.30 | 1.50 | . | . | . | . | . | . | . |
| CTIF FCR4 | 2.47 | 1.40 | 2.05 | 0.097 | 0.066 | 1.32 | 0.571 | 24.2 | . | . | 2.16 | . | . | . | . |
| CTIF FCR1 | 2.46 | 0.48 | 0.63 | 0.019 | 0.007 | 0.031 | 1.30 | 18.71 | . | . | 1.41 | . | . | . | . |
| CTIF FO7 | 2.45 | 0.675 | 0.70 | 0.84 | 0.085 | 0.125 | 0.15 | 0.455 | . | . | 0.26 | . | 0.065 | 0.13 | . |
| CTIF NR 4L | 2.41 | 5.89 | 1.495 | 0.155 | 0.010 | 0.758 | 15.90 | 1.403 | . | . | . | . | . | . | . |
| CTIF NR 2S | 2.32 | 1.43 | 0.530 | 0.062 | 0.0210 | 36.3 | 0.51 | . | . | . | . | . | . | . | . |
| CTIF NH5 | 2.31 | 0.31 | 0.24 | 0.115 | 0.04 | 0.035 | 4.90 | 2.85 | . | . | 0.017 | . | . | . | . |
| CTIF FL3 | 2.3 | 2.1 | 0.27 | 0.729 | (0.013) | 0.102 | 0.553 | 0.107 | . | . | 0.106 | 0.111 | 0.05 | 0.049 | . |
| CTIF NR 4G | 2.24 | 5.60 | 1.72 | 0.11 | (0.002) | 0.64 | 21.30 | 1.40 | . | . | . | . | . | . | . |
| CTIF NR 2G | 2.25 | 1.47 | 0.380 | 0.0476 | (0.003) | 0.232 | 36.34 | 0.395 | . | . | . | . | . | . | . |
| CTIF FL2 | 2.18 | 3.61 | 0.0400 | 0.049 | 0.082 | 0.0497 | 0.0238 | 0.440 | (0.006) | 0.0263 | (0.004) | 0.140 | 0.0750 | 0.201 | . |
| CTIF FL1 | 2.1 | 3.2 | 0.80 | 0.118 | 0.0765 | 0.0195 | 0.245 | 0.06 | . | (0.022) | 0.038 | 0.305 | 0.020 | 0.015 | . |
| CTIF FO1 | 2.02 | 3.18 | 0.71 | 0.112 | 0.074 | 0.036 | 0.120 | 0.090 | . | . | 0.032 | 0.38 | 0.018 | 0.019 | . |
| CTIF FCR Ni2 | 2.02 | 1.50 | 0.61 | 0.185 | 0.024 | . | 13.05 | 29.00 | . | . | . | . | . | . | . |
| CTIF NR Cu3 | 1.94 | 3.12 | 0.60 | 0.046 | 0.016 | 8.05 | 13.3 | 3.50 | . | . | . | . | . | . | . |
| CTIF NR 6S | 1.82 | 2.44 | 0.99 | 0.019 | 0.03 | 30.75 | 1.06 | . | . | . | . | . | . | . | . |
| CTIF NR 5L | 1.77 | 2.99 | 1.207 | 0.037 | 0.083 | 0.48 | 33.89 | 0.27 | . | . | . | . | . | . | . |
| CTIF NR 6L | 1.76 | 2.07 | 0.70 | 0.031 | 0.063 | 0.020 | 30.37 | 3.49 | . | . | . | . | . | . | . |
| CTIF NR 5S | 1.67 | 1.97 | 1.23 | 0.035 | 0.050 | 27.05 | 0.24 | . | . | . | . | . | . | . | . |
| CTIF FCR6 | 1.44 | 0.76 | 1.47 | 0.201 | 0.086 | 0.480 | 0.188 | 30.84 | . | . | 0.455 | . | . | . | . |
| CTIF FCR Ni1 | 1.27 | 1.63 | 0.71 | 0.41 | 0.06 | 0.02 | 16.50 | 26.20 | . | . | . | . | . | . | . |

| Number | C | Si | Mn | P | S | Cu | Ni | Cr | Al | Co | Mo | Sn | Ti | V | W |
|--------|---|----|----|---|---|----|----|----|----|----|----|----|----|---|---|
|--------|---|----|----|---|---|----|----|----|----|----|----|----|----|---|---|

CAST IRON MUSHROOMS

CONTINUED FROM THE PREVIOUS PAGE

| Number | As | B | Bs | Bi | Ce | N | Nb | Pb | Sb | Te | Zn |
|-------------|----------|---------|---------|---------|----|--------|---------|---------|---------|---------|---------|
| CTIF F019 | . | . | . | . | . | . | . | . | . | 0.0005 | . |
| CTIF F012 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F08 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FCR7 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F06 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F010 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NH3 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F011 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F018 | . | . | . | . | . | 0.0040 | . | . | . | . | . |
| CTIF NH7-1 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FCR5 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FT2-1 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NiMo1 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FL7 | (0.0266) | (0.010) | . | (0.010) | . | 0.0035 | . | . | . | . | . |
| CTIF FT3 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NH7-2 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F05 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NH9 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR Cu1 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FL6 | . | 0.008 | . | . | . | . | . | . | . | . | . |
| CTIF FL10 | (0.022) | . | (0.012) | (0.004) | . | . | (0.018) | (0.002) | (0.032) | (0.001) | (0.029) |
| CTIF FFA 1 | 0.0109 | . | . | . | . | 0.0125 | . | . | . | . | . |
| CTIF NR 8S | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F017 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FAL 1 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR 3L | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NH1 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NH8 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR 3S | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FT1 | . | . | . | . | . | . | . | . | . | . | . |

| Number | As | B | Bs | Bi | Ce | N | Nb | Pb | Sb | Te | Zn |
|--------------|--------|---------|----|----------|----|----------|------|----|----|----|---------------|
| CTIF NR 8L | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NH4 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F04 | . | . | . | . | . | . | . | . | . | . | last of stock |
| CTIF FCR2 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FL5 | . | (0.002) | . | (0.0005) | . | . | . | . | . | . | . |
| CTIF FCR Ni3 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NH6 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F09 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FL4 | (0.05) | . | . | (0.003) | . | 0.007 | . | . | . | . | . |
| CTIF NR 1S | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR 1L | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NH2 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR Cu2 | . | . | . | . | . | (0.0079) | . | . | . | . | . |
| CTIF NR 4S | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FCR4 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FCR1 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F07 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR 4L | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR 2S | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NH5 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FL3 | . | . | . | . | . | 0.008 | . | . | . | . | . |
| CTIF NR 4G | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR 2G | . | . | . | . | . | . | 0.27 | . | . | . | . |
| CTIF FL2 | . | . | . | (0.0135) | . | . | . | . | . | . | . |
| CTIF FL1 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF F01 | . | . | . | . | . | . | . | . | . | . | last of stock |
| CTIF FCR Ni2 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR Cu3 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR 6S | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR 5L | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR 6L | . | . | . | . | . | . | . | . | . | . | . |
| CTIF NR 5S | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FCR6 | . | . | . | . | . | . | . | . | . | . | . |
| CTIF FCR Nil | . | . | . | . | . | . | . | . | . | . | . |

| Number | As | B | Bs | Bi | Ce | N | Nb | Pb | Sb | Te | Zn |
|--------|----|---|----|----|----|---|----|----|----|----|----|
|--------|----|---|----|----|----|---|----|----|----|----|----|

| ALLOY | ISO? | NUMBER | ALLOY | ISO? | NUMBER | ALLOY | ISO? | NUMBER |
|----------|--------------------|--------------|---------------------------|---------------|--------------|-------------|---------------|--------------|
| 1.0812 | | ECRM 191-2D | 17-4PH | | BS 17-4PHA | 316 | | JK 27A D |
| 1.2344 | | ECRM 271-1D | 17-4PH | | BS 17-4PHB | 316 | | NILAB 500HAD |
| 1.2367 | | HRT FE2012-H | 17-4PH | | IARM 23D | 316 | | SRM 1155A |
| 1.2510 | | HRT FE2006-N | 17-4PH | | SRM C2400 | 316 H | | CT 316 |
| 1.4765 | | ECRM 299-1D | 17-7PH | | 13X PH17700 | 316 H | | IARM 339A |
| 1.5415 | | HRT FE2012-N | 17-7PH 25(preceded 17025) | | BS 192 | 316 L | | 13X 31603 |
| 1.6587 | | HRT FE2013-N | 17-7PH 25(preceded 17025) | | BS 192A | 316 L | 17025 | BS 316D |
| 1.7149 | 20MnCrS5 | ECRM 187-2D | 17-7PH | | IARM 152C | 316 L | 17025 | BS 316E |
| 1.7160 | | ECRM 194-1D | 182FM | | BS 150 | 316 L | | CZ SL-2A |
| 1.8550 | | ECRM 129-3D | 18Cr2Ni12Mn | | CT ISO035A | 316 L | | IARM 163E |
| 1.8519 | | HRT FE2010-N | 201 | | BS 191 | 316 L | | SS 466/2 |
| 1.8928 | | ECRM 194-2D | 201 | | SRM 1297 | 316 Ti | | ECRM 284-2D |
| 1005 | 17025 | BS LC-6 | 20Cb3 | | BS 187A | 317 L | | BS 317L |
| 1005 | | ECRM 064-2D | 20Cb3 | | CT 20 Cb-3 | 317 L | 25(pre-17025) | BS 9941 |
| 1005 | | RM Fe 1/4 | 20MnCr4 | | ECRM 197-1D | 317 L | 25(pre-17025) | BS 9942 |
| 1005 | | SRM 1765 | 2101 | | IARM 292A | 317 L | | IARM 153C |
| 1005 | | SRM 1766 | 21Cr6Ni9Mn | | CT ISO129A | 318 | 17025 | BS 2205 |
| 1005 | | SS 111 | 2205 | 17025 | BS 2205 | 321 | | 13X 32100 |
| 1005 | | SS 111A | 2205 | | IARM 212D | 321 | | BS 321C |
| 1006 | | BS XCCS | 2304 | | IARM 317A | 321 | | BS 85D |
| 1008 | | ECRM 057-2D | 2507 | | IARM 301B | 321 | | SRM 1171 |
| 1009 | | IMZ 71 | 253 MA | 25(pre-17025) | BS 253 | 321 | | SS 465/1 |
| 100C6 | | IRSID 1747 | 253 MA | | IARM 316A | 321 - Ti | | IMZ 152 |
| 1010 | | IMZ 111 | 254 SMO | | 13X 31254 | 321 H | | BS 321A |
| 1010 | | IRSID 1665 | 254 SMO | | IARM 302B | 330 | | IARM 7C |
| 1011 | | IMZ 73 | 254 SMO | | NILAB 501HAD | 3310 | | BS 1972 |
| 1016 | | BS 1016 | 255, Duplex | | IARM 239B | 347 | | 13X 34700 |
| 1017 | | IMZ 112 | 300M | | 12X 44220 | 347 | | BS 347A |
| 1017 | | IRSID 1664 | 300M | 17025 | BS 300 | 347 | | BS 347B |
| 1018 | | 12X 10180B | 300M | | IARM 340A | 347 | | IARM 8G |
| 1018 | | 12X 10180C | 301 | | IARM 289A | 347 H | | BS 87F |
| 1018 | | BS 1018 | 301 | | IRSID 1819 | 348 | | SRM 1172 |
| 1018 | 17025 | BS 2931B | 302 | | IARM 241D | 355 | 17025 | BS 355 |
| 1018 | | ECRM 087-1D | 302 HQ | | IARM 234C | 355 | | IARM 335A |
| 1020 | 17025 | BS 1020 | 303 | | 13X 30300 | 35MV7 | | IRSID 1750 |
| 1026 | 17025 | BS 1026 | 303 | 17025 | BS 303 | 405 | | SRM 1295 |
| 1026 | | IARM 359A | 303 | | CT 303 | 409 + Cr | | NCS HS20743 |
| 1030 | 17025 | BS 1030 | 303 | | CZ SP-1A | 410 | 25(pre-17025) | BS 0021 |
| 1030 | | IARM 209D | 303 | | IARM 1D | 410 | 17025 | BS 410C |
| 1033 | | IRSID 1663 | 303 Se | | IARM 253A | 410 | | CT 410 |
| 1035 | | IRSID 1645 | 304 | | IARM 2H | 410 | | CT X23576 |
| 1035 | | IARM 360A | 304 H | | 13X NSB1 | 410 | | IARM 9D |
| 1039 | | IRSID 1637 | 304 H | | CT 304 | 410 + Mo | | ECRM 296-1D |
| 1040 | | 12X 10400 | 304 H | | SS 468/1 | 410 + Mo | | IMZ 161 |
| 1040 | 17025 | BS 3941 | 304 H | | VS LG61 | 410 Cb | | CT X68887 |
| 1040 | | IARM 210D | 304 H + Mo | | 13X NSA2 | 410 Cb | | CT X68890 |
| 1040 | | IRSID 1657 | 304 L | 17025 | BS 304 | 410 H | | 13X 41001 |
| 1042 | | IRSID 1656 | 304 L | 17025 | BS 304A | 410, F6NM | 25(pre-17025) | BS 0022 |
| 1042 | | NM EN-8 | 304 L | | BS 304B | 4130 | 17025 | BS 4130 |
| 1043 | | IRSID 1652 | 304 L | | BS SS3951 | 4130 | | IPT 501 |
| 1045 | | BS 56E | 304 L | | IARM 162D | 4130 | | SRM 1225 |
| 1045 | 17025 | BS 56H | 304 L | | ECRM 287-1D | 4140 | | 12X 41400 |
| 1045 | | IPT 503 | 304 L | | ECRM 292-1D | 4140 | 25(pre-17025) | BS 1962 |
| 1050 | | IARM 254A | 304 L | | IARM 162C | 4140 | | IARM 30i |
| 1055 | | NM 3405.01 | 304 L | | SS 463/1 | 4140 Bi | | BS 4140A |
| 1060 | | IARM 373A | 305 | | CT 305 | 4140 Bi | | BS 4140B |
| 1069 | | ECRM 059-2D | 305 | | CT X52353 | 41L40MOD | 17025 | BS 70B |
| 1078 | | ECRM 056-2D | 305 | | ECRM 297-1D | 41L40MOD | | BS 70C |
| 1078 | | SRM 1224 | 308 | | DSZU C017 | 4150 Bi & S | | BS 4150MOD |
| 1090 | | SS 602/2 | 309 | | 13X 30908 | 4150 S | 17025 | BS 42 |
| 1095 | | SRM 1227 | 309 | | BS 82D | 4150 S | | BS 42A |
| 1117 | 25(preceded 17025) | BS 3993 | 309 | | BS 82E | 416 | | BS 90F |
| 1117 | | BS 65C | 309 | | IARM 3E | 416 | 17025 | BS 416 |
| 1140 | P | BS 52D | 310 | | 13X 31008 | 416 | | CT 416 |
| 1141 | | BS 66B | 310 | | BS 83D | 416 | | SRM 1223 |
| 1144 | 17025 | BS 1144 | 310 | | BS 83G | 416 H | | 13X 41600 |
| 1144 | 17025 | BS 1144A | 310 | 25(pre-17025) | BS 9841 | 416 Se | | BS 151 |
| 1144 | | IARM 199C | 310 | 25(pre-17025) | BS 9842 | 41CAD7 | | IRSID 1749 |
| 11L17 | 17025 | BS 75F | 310 | | CZ SL-3A | 41L40 | 17025 | BS 70B |
| 11L17 | 17025 | BS 75G | 310 | | IARM 4E | 41L50 | 17025 | BS 72B |
| 1215 | 17025 | BS 66L | 310 | | SS 464/1 | 42 | | CT ISO138A |
| 1215 | | IARM 206B | 3115 | | BS XCCT | 42 | | CT ISO139A |
| 12L14 | 17025 | BS 74C | 314 | | IMZ 165 | 420 | | BS SS4951 |
| 12L14 | | IARM 183C | 314 | | IMZ 166A | 420 | | BS SS4952 |
| 12Mn18Cr | | BS 193 | 316 | 17025 | BS 316C | 420 | | ECRM 272-1D |
| 1345 | | BS XCCV | 316 | | IARM 5H | 420 | | IARM 154B |
| 13-8PH | | 13X PH13800 | 316 | | IARM 5i | 420 | | IARM 154C |
| 13-8PH | | BS 184A | | | | 420 | | SS 469 |
| 13-8PH | | CT X92834 | | | | 420 F | | BS 152 |
| 1429 | | ECRM 058-2D | | | | 422 | | 13X 42200 |
| 1513 | | IMZ 76 | | | | 422 | 17025 | BS 422 |
| 1526 | MOD | SRM 1269 | | | | 422 | | IARM 205D |
| 1541 | | IARM 349A | | | | 430 | | BS 91F |
| 1541 | | IPT 504 | | | | 430 | | IARM 11D |
| 1541 | | IRSID 1648 | | | | 430 | | NCS HS20742 |
| 1544 | | IRSID 1644 | | | | 430 F | | BS 153 |
| 15-5PH | | BS 185A | | | | 430 F | | BS 154 |
| 15-5PH | | BS 9621 | | | | 431 | 17025 | BS 431 |
| 15-5PH | | BS 9622 | | | | 431 | | BS 92B |
| 15-5PH | | ECRM 273-1D | | | | 431 | | IARM 12C |
| 15-5PH | | IARM 22C | | | | 431 | | HRT FE2010-H |
| 17-4PH | | 13X PH2 | | | | 431 | | SRM 1219 |
| 17-4PH | | 13X PH17400 | | | | 4320 | | BS 3961 |
| | | | | | | 4330 MOD | | BS 4330V |

Please use the Adobe Acrobat "search" function to find the complete chemistry of these samples listed within this catalog.

| ALLOY | ISO? | NUMBER | ALLOY | ISO? | NUMBER | ALLOY | ISO? | NUMBER |
|---------------------------|-------|----------------|--------------------------|-------|--------------|----------------------------|-------|------------|
| 4340 | 17025 | BS 4340 | D-6 | 17025 | BS D-6 | M-7 | | CT M7 |
| 4340 | 17025 | BS 4340A | D6-AC | | IARM 299A | Maraging 250 | | CT 250 |
| 4340 | | IARM 31F | Duplex | | 13X NSA9 | Maraging 300 | | CT 300 |
| 440 C | | 13X 44004 | Duplex | 17025 | BS 2205 | Maraging 300 | | IARM 99B |
| 440 C | 17025 | BS 93F | Duplex | | IMZ 163A | MaragingA538C 25(pre17025) | | BS 161A |
| 440 C | | IARM 13D | Duplex | | IMZ 164 | Mold Steel | 17025 | BS PP20 |
| 440 F | | BS 155 | E52100 | | BS 2952 | Nitriding 135G | | BS 68B |
| 440F Se | | BS 156 | E52100 | | BS 53G | Nitriding 135G | 17025 | BS 68E |
| 446 | | BS 94C | E52100 | | IARM 49D | Nitronic 40 | | 13X NSC6 |
| 455 | | 13X 45500 | E52100 Bi | | BS 53MOD | Nitronic 40 | | BS 190 |
| 446 | | IARM 14C | Elect./ Magnetic | | SRM 1159 | Nitronic 40 | | IARM 19C |
| 4615 | | BS 3962 | Electrolytic | | SRM 1265a | Nitronic 50 | | BS 180A |
| 4620 | | BS 4620 | F-11 | | BS 45A | Nitronic 50 | 17025 | BS 180B |
| 4620 | | BS 51F | F-11 | 17025 | BS 45B | Nitronic 50 | | IARM 17D |
| 4620 | | IARM 33D | F-2 | | CT X27081 | Nitronic 60 | | 13X 21800 |
| 4820 | 17025 | BS 4820A | F-2 | | CT X35568 | Nitronic 60 | | BS 181A |
| 5160 | | IMZ 116 | F-22 | 17025 | BS 46B | Nitronic 60 | 17025 | BS 181B |
| 6150 | | BS 4941 | F-22 25(preceeded 17025) | | BS 1982 | NMS 100 | | IARM 214A |
| 6150 | | IARM 34C | F-22 | | SRM 1270 | NMS 140 | | IARM 295A |
| 6418 | | BS 6418 | F-22 + Cr | | HRT FE2009-N | NMS J38 | | IARM 294A |
| 6418 | | BS 69B | F-5 | | BS 47A | O-1 | 17025 | BS 35D |
| 6526 | | BS 9-4-30 | F-5 | | BS 47B | O-1 | | CT O1 |
| 709 | | CT X67975 | F-51 | 17025 | BS 2205 | O-6 | 17025 | BS 41 |
| 800 | 17025 | BS 800 | F-9 | 17025 | BS 48B | O-6 25(preceeded 17025) | | BS 41A |
| 8620 | | BS 8620A (XRF) | F-91 25(preceeded 17025) | | BS 9905 | O-6 | | IARM 45A |
| 8620 | 17025 | BS 8620E | F-91 | 17025 | BS 9905A | O-6 | | IARM 45B |
| 8620 | | IPT 502 | Ferallium 255 | 17025 | BS 179B | P-6, HY100 | | BS 1972 |
| 86L20 25(preceeded 17025) | | BS 73B | Ferallium 255 | 17025 | BS 179C | P-20 | | BS 55G |
| 86L20 | | BS 73C | Greek Ascology | | BS 183A | PP-20 | 17025 | BS PP20 |
| 86L20 | | IARM 182B | Greek Ascology | | IARM 20B | Permendur 2V | | IARM 326A |
| 8740 | 17025 | BS 67C | Greek Ascology | | IARM 20C | RA330 | | BS 86F |
| 8740 | | IARM 252C | H-10 | | BS 49 | S-1 | | BS 33D |
| 904L | | 13X NSA12 | H-11 | | ECRM 276-2D | S-1 | | BS 33E |
| 904L | | ECRM 295-1D | H-11 | | IARM 255A | S-1 | | IARM 46B |
| 9310 | | BS 58C | H-11 | | IMZ 173 | S-5 | | BS 38C |
| 9310 | | BS 58E | H-13 | 17025 | BS H-13 | S-5 | | IARM 47B |
| 9325 | 17025 | BS 9325A | H-13 | | CT H13 | S-7 | | IARM 259A |
| 9-4-30 | | IARM 341A | H-13 | | IMZ 174 | S-7 | | SRM 1772 |
| A-10 | | BS A-10 | H-19 | 17025 | BS H-19 | SA213-T22 | | IMZ 159 |
| A-11 | | BS 10V | HC 250+V | | SRM C1290 | SA213-T22 | | IMZ 160 |
| A-11 | 17025 | BS A-11 | High Perm | | CT ISO124A | SA213-T22 | | IMZ 169 |
| A-106 Gr B | | SRM 1228 | High Perm | | CT ISO136A | SAE G2500 | | BS 20E |
| A-193 B16 | | BS 4942 | High Perm 49 | | CT ISO141A | STA 361 | | IARM 268B |
| A-193 B16 | 17025 | BS 4942A | HSLA 100 | | SRM 1271 | T-1 | | 14X HSL |
| A-2 | | BS 36D | HY 130 | | SRM 1226 | T-1 | 17025 | BS 30D |
| A-2 | | CT A2 | HY 80 | | SRM 1286 | T-1 | | IARM 48C |
| A-2 | | IARM 39B | Hy-Tuff | | IARM 342A | T-15 | | BS TS15 |
| A-2 | | IARM 39C | Invar | | 14X 93603 | VM12 | | IMZ 196 |
| A-20 | | BS 187C | Invar-36 + Se | | BS 186A | W-5 | | 14X 72305 |
| A-242 | | IPT 500 | Invar-36 + Se | | IARM 24B | Z30C13 | | IRSID 1825 |
| A-242 Mod | | SRM C1285 | Invar 42 | | 14X 94100 | Zeron 100, Duplex | | 13X NSA8 |
| A-286 | | BS 188A | ISO 898-1 | | SS 457/2 | Zeron 100, Duplex | | IARM 319A |
| A-286 | 17025 | BS 188B | KOVAR | 17025 | BS 160A | | | |
| A-286 | | SRM 1230 | KOVAR | | IARM 98B | | | |
| A-36 | 17025 | BS 2931B | L-2, 6150 | | BS 43A | | | |
| A-36 | | IARM 213C | L-6 | 17025 | BS 39B | | | |
| A-36 | | SRM 1767 | L-6 | | IARM 43B | | | |
| A-485-1 | | BS A485-1 | LDX2101 | | 13X 32101 | | | |
| A-6 | | BS 40B | LF-2 | | BS 2931B | | | |
| A-6 | | IARM 40B | LF-2 | 17025 | BS LF2B | | | |
| A-6 | | IARM 40C | LF-2 | | ECRM 096-2D | | | |
| Aermet 100 | | CT ISO045A | LF-2 | | SS 601/2 | | | |
| Aermet 100 | | IARM 242A | LF-3 | | BS LF3 | | | |
| AL6XN | 17025 | BS 189A | M-1 | | CT M1 | | | |
| C-.5Mo | | BS 3952 | M-1 | | IARM 304A | | | |
| C-.5Mo | | IARM 229B | M-10 | | CT M10 | | | |
| C-250 | | IARM 308A | M-10 | | IARM 324A | | | |
| C-350 | | IARM 309A | M-152 | | 13X 64152 | | | |
| CA6NM | | HRT FE2009-H | M-152 | | IARM 291A | | | |
| CA6NM | | IARM 327A | M-2 | | CT M2 | | | |
| CD3MN | | 13X NSA1 | M-2 | | IARM 44C | | | |
| CD3MN | | 13X NSA5 | M-2 | | SRM 1157 | | | |
| CD3MN | | ECRM 298-1D | M-35 | | IARM 320A | | | |
| CD6MN | | VS LG58 | M-4 | | IARM 251A | | | |
| CF-3 | | IRSID 1820 | M-42 | | SS 487/1 | | | |
| CLA1 | | IARM 164A | M-47 | 17025 | BS M-47 | | | |
| CLA11 | | IARM 180A | M-50 | 17025 | BS M-50 | | | |
| CLA5 | | IARM 168A | M-50 | | IARM 306B | | | |
| CLA9 | | IARM 172A | | | | | | |
| CPM15V | 17025 | BS PM15 | | | | | | |
| Custom 450 25(pre-17025) | | BS 9811 | | | | | | |
| Custom 450 25(pre-17025) | | BS 9812 | | | | | | |
| Custom 450 | | CT 450 | | | | | | |
| Custom 450 | | IARM 15B | | | | | | |
| Custom 455 | | BS SS1961 | | | | | | |
| Custom 455 | | BS SS1962 | | | | | | |
| Custom 455 | | CT 455 | | | | | | |
| Custom 455 | | IARM 16C | | | | | | |
| Custom 465 | | CT ISO123A | | | | | | |
| Custom 630 | | CT 630 | | | | | | |
| D-2 | | BS 37G | | | | | | |
| D-2 | | CT D2 | | | | | | |
| D-3, D-4 | | ECRM 288-1D | | | | | | |

The best efforts have been made in the construction of this chart. Some samples do not perfectly fit the alloy specifications, but are considered acceptable for the purposes of calibration and type standardization.

Please use the Adobe Acrobat "search" function to find the complete chemistry of these samples listed within this catalog.

CARBON STEEL SPECIFICATIONS

| Number | C | Mn | P | S |
|--------|-----------|-----------|-------|-------|
| 1005 | <0.06 | <0.35 | <0.03 | <0.05 |
| 1006 | <0.08 | 0.25-0.40 | <0.03 | <0.05 |
| 1008 | <0.10 | 0.30-0.50 | <0.03 | <0.05 |
| 1009 | <0.15 | <0.60 | <0.03 | <0.05 |
| 1010 | 0.08-0.13 | 0.30-0.60 | <0.03 | <0.05 |
| 1011 | 0.09-0.14 | 0.60-0.90 | <0.03 | <0.05 |
| 1012 | 0.10-0.15 | 0.30-0.60 | <0.03 | <0.05 |
| 1013 | 0.11-0.16 | 0.50-0.80 | <0.03 | <0.05 |
| 1015 | 0.13-0.18 | 0.30-0.60 | <0.03 | <0.05 |
| 1016 | 0.13-0.18 | 0.60-0.90 | <0.03 | <0.05 |
| 1017 | 0.15-0.20 | 0.30-0.60 | <0.03 | <0.05 |
| 1018 | 0.15-0.20 | 0.60-0.90 | <0.03 | <0.05 |
| 1019 | 0.15-0.20 | 0.70-1.00 | <0.03 | <0.05 |
| 1020 | 0.18-0.23 | 0.30-0.60 | <0.03 | <0.05 |
| 1021 | 0.18-0.23 | 0.60-0.90 | <0.03 | <0.05 |
| 1022 | 0.18-0.23 | 0.70-1.00 | <0.03 | <0.05 |
| 1023 | 0.20-0.25 | 0.30-0.60 | <0.03 | <0.05 |
| 1025 | 0.22-0.28 | 0.30-0.60 | <0.03 | <0.05 |
| 1026 | 0.22-0.28 | 0.60-0.90 | <0.03 | <0.05 |
| 1029 | 0.25-0.31 | 0.60-0.90 | <0.03 | <0.05 |
| 1030 | 0.28-0.34 | 0.60-0.90 | <0.03 | <0.05 |
| 1033 | 0.29-0.36 | 0.70-1.00 | <0.03 | <0.05 |
| 1034 | 0.32-0.38 | 0.50-0.80 | <0.03 | <0.05 |
| 1035 | 0.32-0.38 | 0.60-0.90 | <0.03 | <0.05 |
| 1037 | 0.32-0.38 | 0.70-1.00 | <0.03 | <0.05 |
| 1038 | 0.35-0.42 | 0.60-0.90 | <0.03 | <0.05 |
| 1039 | 0.37-0.44 | 0.70-1.00 | <0.03 | <0.05 |
| 1040 | 0.37-0.44 | 0.60-0.90 | <0.03 | <0.05 |
| 1042 | 0.40-0.47 | 0.60-0.90 | <0.03 | <0.05 |
| 1043 | 0.40-0.47 | 0.70-1.00 | <0.03 | <0.05 |
| 1044 | 0.43-0.50 | 0.30-0.60 | <0.03 | <0.05 |
| 1045 | 0.43-0.50 | 0.60-0.90 | <0.03 | <0.05 |
| 1046 | 0.43-0.50 | 0.70-1.00 | <0.03 | <0.05 |
| 1049 | 0.46-0.53 | 0.60-0.90 | <0.03 | <0.05 |
| 1050 | 0.48-0.55 | 0.60-0.90 | <0.03 | <0.05 |
| 1053 | 0.48-0.55 | 0.70-1.00 | <0.03 | <0.05 |
| 1055 | 0.50-0.60 | 0.60-0.90 | <0.03 | <0.05 |
| 1059 | 0.55-0.65 | 0.50-0.80 | <0.03 | <0.05 |
| 1060 | 0.55-0.65 | 0.60-0.90 | <0.03 | <0.05 |
| 1064 | 0.60-0.70 | 0.50-0.80 | <0.03 | <0.05 |
| 1065 | 0.60-0.70 | 0.60-0.90 | <0.03 | <0.05 |
| 1069 | 0.65-0.75 | 0.40-0.70 | <0.03 | <0.05 |
| 1070 | 0.65-0.75 | 0.60-0.90 | <0.03 | <0.05 |
| 1074 | 0.70-0.80 | 0.50-0.80 | <0.03 | <0.05 |
| 1078 | 0.72-0.85 | 0.30-0.60 | <0.03 | <0.05 |
| 1080 | 0.75-0.88 | 0.60-0.90 | <0.03 | <0.05 |
| 1084 | 0.83-0.93 | 0.60-0.90 | <0.03 | <0.05 |
| 1085 | 0.80-0.94 | 0.70-1.00 | <0.03 | <0.05 |
| 1086 | 0.80-0.93 | 0.30-0.50 | <0.03 | <0.05 |
| 1090 | 0.85-0.98 | 0.60-0.90 | <0.03 | <0.05 |
| 1095 | 0.90-1.03 | 0.30-0.50 | <0.03 | <0.05 |
| Number | C | Mn | P | S |

CARBON STEEL SPECIFICATIONS

| Number | C | Mn | P | S | Si |
|--------|-----------|-----------|--------|-------|-----------|
| 1513 | 0.10-0.16 | 1.10-1.40 | <0.03 | <0.05 | . |
| 1522 | 0.18-0.24 | 1.10-1.40 | <0.04 | <0.05 | . |
| 1524 | 0.19-0.25 | 1.35-1.65 | <0.04 | <0.05 | . |
| 1526 | 0.22-0.29 | 1.10-1.40 | <0.04 | <0.05 | . |
| 1527 | 0.22-0.29 | 1.20-1.50 | <0.04 | <0.05 | . |
| 1533 | 0.30-0.37 | 1.10-1.40 | <0.04 | <0.05 | . |
| 1534 | 0.30-0.37 | 1.20-1.50 | <0.04 | <0.05 | . |
| 1541 | 0.36-0.44 | 1.35-1.65 | <0.04 | <0.05 | . |
| 1544 | 0.40-0.47 | 0.80-1.10 | <0.04 | <0.05 | . |
| 1545 | 0.43-0.50 | 0.80-1.10 | <0.04 | <0.05 | . |
| 1546 | 0.44-0.52 | 1.00-1.30 | <0.04 | <0.05 | . |
| 1548 | 0.44-0.52 | 1.10-1.40 | <0.04 | <0.05 | . |
| 1552 | 0.47-0.55 | 1.20-1.50 | <0.04 | <0.05 | . |
| 1553 | 0.48-0.55 | 0.80-1.10 | <0.04 | <0.05 | . |
| 1566 | 0.60-0.70 | 0.85-1.15 | <0.04 | <0.05 | . |
| 1570 | 0.65-0.75 | 0.80-1.10 | <0.04 | <0.05 | . |
| 1580 | 0.75-0.88 | 0.80-1.10 | <0.04 | <0.05 | . |
| 1590 | 0.85-0.98 | 0.80-1.10 | <0.04 | <0.05 | . |
| LF2 | <0.30 | 0.60-1.35 | <0.035 | <0.04 | 0.15-0.30 |

| Number | C | Mn | P | S | Si |
|--------|---|----|---|---|----|
|--------|---|----|---|---|----|

RESULFURIZED STEEL SPECIFICATIONS

| Number | C | Mn | P | S |
|--------|-----------|-----------|-----------|-----------|
| 1108 | 0.08-0.13 | 0.50-0.80 | <0.04 | 0.08-0.13 |
| 1109 | 0.08-0.13 | 0.60-0.90 | <0.04 | 0.08-0.13 |
| 1110 | 0.08-0.13 | 0.30-0.60 | <0.04 | 0.08-0.13 |
| 1116 | 0.14-0.20 | 1.10-1.40 | <0.04 | 0.16-0.23 |
| 1117 | 0.14-0.20 | 1.00-1.30 | <0.04 | 0.08-0.13 |
| 1118 | 0.14-0.20 | 1.30-1.60 | <0.04 | 0.08-0.13 |
| 1119 | 0.14-0.20 | 1.00-1.30 | <0.04 | 0.24-0.33 |
| 1123 | 0.20-0.27 | 1.20-1.50 | <0.04 | 0.06-0.09 |
| 1132 | 0.27-0.34 | 1.35-1.65 | <0.04 | 0.09-0.13 |
| 1137 | 0.32-0.39 | 1.35-1.65 | <0.03 | 0.08-0.13 |
| 1139 | 0.35-0.43 | 1.35-1.65 | <0.04 | 0.13-0.20 |
| 1140 | 0.37-0.44 | 0.70-1.00 | <0.03 | 0.08-0.13 |
| 1141 | 0.37-0.45 | 1.35-1.65 | <0.03 | 0.08-0.13 |
| 1144 | 0.40-0.48 | 1.35-1.65 | <0.03 | 0.24-0.33 |
| 1145 | 0.41-0.49 | 0.70-1.00 | <0.04 | 0.08-0.13 |
| 1146 | 0.42-0.49 | 0.70-1.00 | <0.04 | 0.08-0.13 |
| 1151 | 0.48-0.55 | 0.70-1.00 | <0.04 | 0.08-0.13 |
| 1152 | 0.48-0.55 | 0.70-1.00 | <0.04 | 0.06-0.09 |
| 1211 | <0.13 | 0.60-0.90 | 0.07-0.12 | 0.10-0.15 |
| 1212 | <0.13 | 0.70-1.00 | 0.07-0.12 | 0.16-0.23 |
| 1213 | <0.13 | 0.70-1.00 | 0.07-0.12 | 0.24-0.33 |
| 1215 | <0.09 | 0.75-1.05 | 0.04-0.09 | 0.26-0.35 |

| Number | C | Mn | P | S |
|--------|---|----|---|---|
|--------|---|----|---|---|

These are specifications,
not samples for sale.

LOW ALLOY STEEL SPECIFICATIONS

| Number | C | Mn | P | S | Si | Ni | Cr | Mo | Pb | Other |
|--------|-----------|-----------|--------|-------------|-----------|-----------|------------|-----------|-----------|---------------------------------|
| 1330 | 0.28-0.33 | 1.60-1.90 | <0.035 | <0.04 | 0.15-0.35 | . | . | . | . | . |
| 1335 | 0.33-0.38 | 1.60-1.90 | <0.035 | <0.04 | 0.15-0.35 | . | . | . | . | . |
| 1340 | 0.38-0.43 | 1.60-1.90 | <0.035 | <0.04 | 0.15-0.35 | . | . | . | . | . |
| 1345 | 0.43-0.48 | 1.60-1.90 | <0.035 | <0.04 | 0.15-0.35 | . | . | . | . | . |
| 3140 | 0.38-0.43 | 0.70-0.90 | <0.04 | <0.04 | 0.15-0.35 | 1.10-1.40 | 0.55-0.75 | . | . | . |
| 4023 | 0.20-0.25 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | . | 0.20-0.30 | . | . |
| 4027 | 0.25-0.30 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | . | 0.20-0.30 | . | . |
| 4028 | 0.25-0.30 | 0.70-0.90 | <0.035 | 0.035-0.050 | 0.15-0.35 | . | . | 0.20-0.30 | . | . |
| 4037 | 0.35-0.40 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | . | 0.20-0.30 | . | . |
| 4047 | 0.45-0.50 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | . | 0.20-0.30 | . | . |
| 4118 | 0.18-0.23 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | 0.40-0.60 | 0.08-0.15 | . | . |
| 4120 | 0.18-0.23 | 0.80-1.20 | <0.035 | <0.04 | 0.15-0.35 | . | 0.40-0.60 | 0.15-0.25 | . | . |
| 4121 | 0.18-0.23 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | . | 0.45-0.65 | 0.15-0.25 | . | . |
| 4130 | 0.28-0.33 | 0.40-0.60 | <0.035 | <0.04 | 0.15-0.35 | . | 0.80-1.10 | 0.15-0.25 | . | . |
| 4135 | 0.33-0.38 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | 0.80-1.10 | 0.15-0.25 | . | . |
| 4137 | 0.35-0.40 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | 0.80-1.10 | 0.15-0.25 | . | . |
| 4140 | 0.38-0.43 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | . | 0.80-1.10 | 0.15-0.25 | . | . |
| 41L40 | 0.38-0.43 | 0.75-1.00 | <0.035 | 0.02-0.04 | 0.15-0.35 | . | 0.80-1.10 | 0.15-0.25 | 0.15-0.35 | . |
| 4142 | 0.40-0.45 | 0.45-0.65 | <0.035 | <0.04 | 0.15-0.35 | . | 0.80-1.10 | 0.15-0.25 | . | . |
| 4145 | 0.43-0.48 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | . | 0.80-1.10 | 0.15-0.25 | . | . |
| 4147 | 0.45-0.50 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | . | 0.80-1.10 | 0.15-0.25 | . | . |
| 4150 | 0.48-0.53 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | . | 0.80-1.10 | 0.15-0.25 | . | . |
| 41L50 | 0.48-0.53 | 0.75-1.00 | <0.035 | 0.02-0.04 | 0.15-0.35 | . | 0.80-1.10 | 0.15-0.25 | 0.15-0.35 | . |
| 4320 | 0.17-0.22 | 0.45-0.65 | <0.035 | <0.04 | 0.15-0.35 | 1.65-2.00 | 0.40-0.60 | 0.20-0.30 | . | . |
| 4340 | 0.38-0.43 | 0.60-0.80 | <0.035 | <0.04 | 0.15-0.35 | 1.65-2.00 | 0.70-0.90 | 0.20-0.30 | . | . |
| 4615 | 0.13-0.18 | 0.45-0.65 | <0.035 | <0.04 | 0.15-0.35 | 1.65-2.00 | . | 0.20-0.30 | . | . |
| 4617 | 0.15-0.20 | 0.45-0.65 | <0.035 | <0.04 | 0.15-0.35 | 1.65-2.00 | . | 0.20-0.30 | . | . |
| 4620 | 0.17-0.22 | 0.45-0.65 | <0.035 | <0.04 | 0.15-0.35 | 1.65-2.00 | . | 0.20-0.30 | . | . |
| 4715 | 0.13-0.18 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | 0.70-1.00 | 0.45-0.65 | 0.45-0.65 | . | . |
| 4720 | 0.17-0.22 | 0.50-0.70 | <0.035 | <0.04 | 0.15-0.35 | 0.90-1.20 | 0.35-0.55 | 0.15-0.25 | . | . |
| 4815 | 0.13-0.18 | 0.40-0.60 | <0.035 | <0.04 | 0.15-0.35 | 3.25-3.75 | . | 0.20-0.30 | . | . |
| 4820 | 0.18-0.23 | 0.50-0.70 | <0.035 | <0.04 | 0.15-0.35 | 3.25-3.75 | . | 0.20-0.30 | . | . |
| 50B46 | 0.44-0.49 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | . | 0.20-0.35 | . | . | B: 0.0005-0.003 |
| 5120 | 0.17-0.22 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | 0.70-0.90 | . | . | . |
| 51L20 | 0.17-0.22 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | 0.70-0.90 | . | 0.15-0.35 | . |
| 5130 | 0.28-0.33 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | 0.80-1.10 | . | . | . |
| 5132 | 0.30-0.35 | 0.60-0.80 | <0.035 | <0.04 | 0.15-0.35 | . | 0.75-1.00 | . | . | . |
| 5140 | 0.38-0.43 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | 0.70-0.90 | . | . | . |
| 5150 | 0.48-0.53 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | 0.70-0.90 | . | . | . |
| 5160 | 0.56-0.64 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | . | 0.70-0.90 | . | . | . |
| 51B60 | 0.56-0.64 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | . | 0.70-0.90 | . | . | B: >0.0005 |
| 6150 | 0.48-0.53 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | . | 0.80-1.10 | . | . | V: >0.15 |
| 8615 | 0.13-0.18 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.15-0.25 | . | . |
| 8617 | 0.15-0.20 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.15-0.25 | . | . |
| 8620 | 0.18-0.23 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.15-0.25 | . | . |
| 86L20 | 0.18-0.21 | 0.70-0.90 | <0.035 | 0.02-0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.15-0.25 | 0.15-0.35 | . |
| 8622 | 0.20-0.25 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.15-0.25 | . | . |
| 8630 | 0.28-0.33 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.15-0.25 | . | . |
| 8637 | 0.35-0.40 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.15-0.25 | . | . |
| 8640 | 0.38-0.43 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.15-0.25 | . | . |
| 8645 | 0.43-0.48 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.15-0.25 | . | . |
| 8720 | 0.18-0.23 | 0.70-0.90 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.20-0.30 | . | . |
| 8740 | 0.38-0.43 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.20-0.30 | . | . |
| 8822 | 0.20-0.25 | 0.75-1.00 | <0.035 | <0.04 | 0.15-0.35 | 0.40-0.70 | 0.40-0.60 | 0.30-0.40 | . | . |
| 9259 | 0.56-0.64 | 0.75-1.00 | <0.035 | <0.04 | 0.70-1.10 | . | 0.45-0.65 | . | . | . |
| 9260 | 0.56-0.64 | 0.75-1.00 | <0.035 | <0.04 | 1.80-2.20 | . | . | . | . | . |
| E4340 | 0.38-0.43 | 0.65-0.85 | <0.025 | <0.025 | 0.15-0.35 | 1.65-2.00 | 0.70-0.90 | 0.20-0.30 | . | . |
| E51100 | 0.98-1.10 | 0.25-0.45 | <0.025 | <0.025 | 0.15-0.35 | . | 0.90-1.15 | . | . | . |
| E52100 | 0.98-1.10 | 0.25-0.45 | <0.025 | <0.025 | 0.15-0.35 | . | 1.30-1.60 | . | . | . |
| E9310 | 0.08-0.13 | 0.45-0.65 | <0.025 | <0.025 | 0.15-0.35 | 3.00-3.50 | 1.00-1.40 | 0.08-0.15 | . | . |
| F-11 | 0.10-0.20 | 0.30-0.80 | <0.04 | <0.04 | 0.50-1.00 | . | 1.00-1.50 | 0.44-0.65 | . | . |
| F-22 | <0.15 | 0.30-0.60 | <0.03 | <0.03 | <0.50 | . | 2.00-2.50 | 0.90-1.10 | . | . |
| F-5 | <0.15 | 0.30-0.60 | <0.03 | <0.03 | <0.50 | . | 4.00-6.00 | 0.45-0.65 | . | . |
| F-9 | <0.15 | 0.30-0.60 | <0.03 | <0.03 | 0.50-1.0 | . | 8.00-10.00 | 0.90-1.10 | . | . |
| F-91 | 0.08-0.12 | 0.30-0.60 | <0.02 | <0.01 | 0.20-0.50 | <0.40 | 8.00-9.50 | 0.85-1.05 | . | Al: <0.04 N: 0.03-0.07 |
| F-91 | continued | | | | | | | | | Nb: 0.06-0.10 V: 0.18-0.25 |
| LF2 | <0.30 | 0.60-1.35 | <0.035 | <0.04 | 0.15-0.30 | . | . | . | . | . |
| LF3 | <0.20 | <0.90 | <0.035 | <0.04 | 0.20-0.35 | 3.25-3.75 | . | . | . | . |
| Number | C | Mn | P | S | Si | Ni | Cr | Mo | Pb | Other |

These are specifications,
not samples for sale.

TOOL STEEL SPECIFICATIONS

* notes optional chemistry

| Number | C | Mn | P | S | Si | Ni | Cr | Co | Mo | V | W | Other |
|--------|-----------|-----------|--------|--------|-----------|-----------|-------------|-------------|------------|------------|-------------|---------------|
| A-2 | 0.95-1.05 | <1.00 | <0.03 | <0.03 | <0.50 | . | 4.75-5.50 | . | 0.90-1.40 | 0.15-0.50 | . | . |
| A-4 | 0.95-1.05 | 1.80-2.20 | <0.03 | <0.03 | <0.50 | . | 0.90-2.20 | . | 0.90-1.40 | . | . | . |
| A-6 | 0.65-0.75 | 1.80-2.50 | <0.03 | <0.03 | <0.50 | . | 0.90-1.20 | . | 0.90-1.40 | . | . | . |
| A-7 | 2.00-2.85 | <0.80 | <0.03 | <0.03 | <0.50 | . | 5.00-5.75 | . | 0.90-1.40 | 3.90-5.15 | 0.50-1.50 | . |
| A-8 | 0.50-0.60 | <0.50 | <0.03 | <0.03 | 0.75-1.10 | . | 4.75-5.50 | . | 1.15-1.65 | . | 1.00-1.50 | . |
| A-9 | 0.45-0.55 | <0.50 | <0.03 | <0.03 | 0.95-1.15 | 1.25-1.75 | 4.75-5.50 | . | 1.30-1.80 | 0.80-1.40 | . | . |
| A-10 | 1.25-1.50 | 1.60-2.10 | <0.03 | <0.03 | 1.00-1.50 | 1.55-2.05 | . | . | 1.25-1.75 | . | . | . |
| A-11 | 2.45 | 0.50 | . | . | 0.90 | . | 5.25 | . | 1.30 | 9.75 | . | . |
| D-2 | 1.40-1.60 | <0.60 | <0.03 | <0.03 | <0.60 | . | 11.00-13.00 | <1.00 | 0.70-1.20 | <1.10 | . | . |
| D-3 | 2.00-2.35 | <0.60 | <0.03 | <0.03 | <0.60 | . | 11.00-13.50 | . | . | <1.00 | <1.00 | . |
| D-4 | 2.05-2.40 | <0.60 | <0.03 | <0.03 | <0.60 | . | 11.00-13.00 | . | 0.70-1.20 | <1.00 | . | . |
| D-5 | 1.40-1.60 | <0.60 | <0.03 | <0.03 | <0.60 | . | 11.00-13.00 | 2.50-3.50 | 0.70-1.20 | <1.00 | . | . |
| D-7 | 2.15-2.50 | <0.60 | <0.03 | <0.03 | <0.60 | . | 11.50-13.50 | . | 0.70-1.20 | 3.80-4.40 | . | . |
| H-10 | 0.35-0.45 | 0.25-0.70 | <0.03 | <0.03 | 0.80-1.20 | . | 3.00-3.75 | . | 2.00-3.00 | 0.25-0.75 | . | . |
| H-11 | 0.33-0.43 | 0.20-0.50 | <0.03 | <0.03 | 0.80-1.20 | . | 4.75-5.50 | . | 1.10-1.60 | 0.30-0.60 | . | . |
| H-12 | 0.30-0.40 | 0.20-0.50 | <0.03 | <0.03 | 0.80-1.20 | . | 4.75-5.50 | . | 1.25-1.75 | <0.50 | 1.00-1.70 | . |
| H-13 | 0.32-0.45 | 0.20-0.50 | <0.03 | <0.03 | 0.80-1.20 | . | 4.75-5.50 | . | 1.10-1.75 | 0.80-1.20 | . | . |
| H-14 | 0.35-0.45 | 0.20-0.50 | <0.03 | <0.03 | 0.80-1.20 | . | 4.75-5.50 | . | . | . | 4.00-5.25 | . |
| H-19 | 0.32-0.45 | 0.20-0.50 | <0.03 | <0.03 | 0.80-1.20 | . | 4.00-4.75 | 4.00-4.50 | 0.30-0.55 | 1.75-2.20 | 3.75-4.50 | 4.50 |
| H-21 | 0.26-0.36 | 0.15-0.40 | <0.03 | <0.03 | 0.15-0.50 | . | 3.00-3.75 | . | . | 0.30-0.60 | 8.50-10.00 | . |
| H-22 | 0.30-0.40 | 0.15-0.40 | <0.03 | <0.03 | 0.15-0.40 | . | 1.75-3.75 | . | . | 0.25-0.50 | 10.00-11.75 | . |
| H-23 | 0.25-0.35 | 0.15-0.40 | <0.03 | <0.03 | 0.15-0.60 | . | 11.00-12.75 | . | . | 0.75-1.25 | 11.00-12.75 | . |
| H-24 | 0.42-0.53 | 0.15-0.40 | <0.03 | <0.03 | 0.15-0.40 | . | 2.50-3.50 | . | . | 0.40-0.60 | 14.00-16.00 | . |
| H-26 | 0.45-0.55 | 0.15-0.40 | <0.03 | <0.03 | 0.15-0.40 | . | 3.75-4.50 | . | . | 0.75-1.25 | 17.25-19.00 | . |
| H-42 | 0.55-0.70 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.45 | . | 3.75-4.50 | . | 4.50-5.50 | 1.75-2.20 | 5.50-6.75 | . |
| L-2 | 0.45-1.00 | 0.10-0.90 | <0.03 | <0.03 | <0.50 | . | 0.70-1.20 | . | <0.25 | 0.10-0.30 | . | . |
| L-6 | 0.65-0.75 | 0.25-0.80 | <0.03 | <0.03 | <0.50 | 1.25-2.00 | 0.60-1.20 | . | <0.50 | . | . | . |
| M-1 | 0.78-0.88 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.50 | . | 3.50-4.00 | . | 8.20-9.20 | 1.00-1.35 | 1.40-2.10 | . |
| M-2 | 0.78-1.05 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.45 | . | 3.75-4.50 | . | 4.50-5.50 | 1.75-2.20 | 5.50-6.75 | . |
| M-3.1 | 1.00-1.10 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.45 | . | 3.75-4.50 | . | 4.75-6.50 | 2.25-2.75 | 5.00-6.75 | . |
| M-3.2 | 1.15-1.25 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.45 | . | 3.75-4.50 | . | 4.75-6.50 | 2.75-3.25 | 5.00-6.75 | . |
| M-4 | 1.25-1.40 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.45 | . | 3.75-4.75 | . | 4.25-5.50 | 3.75-4.50 | 5.25-6.50 | . |
| M-6 | 0.75-0.85 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.45 | . | 3.75-4.50 | 11.00-13.00 | 4.50-5.50 | 1.30-1.70 | 3.75-4.75 | . |
| M-7 | 0.97-1.05 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.55 | . | 3.50-4.00 | . | 8.20-9.20 | 1.75-2.25 | 1.40-2.10 | . |
| M-10 | 0.84-1.05 | 0.10-0.40 | <0.03 | <0.03 | 0.20-0.45 | . | 3.75-4.50 | . | 7.75-8.50 | 1.80-2.20 | . | . |
| M-30 | 0.75-0.85 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.45 | . | 3.50-4.25 | 4.50-5.50 | 7.75-9.00 | 1.00-1.40 | 1.30-2.30 | . |
| M-33 | 0.85-0.92 | 0.15-0.40 | <0.03 | <0.03 | 0.25-0.55 | . | 3.50-4.00 | 7.75-8.75 | 9.00-10.00 | 1.00-1.35 | 1.30-2.10 | . |
| M-34 | 0.85-0.92 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.45 | . | 3.50-4.00 | 7.75-8.75 | 7.75-9.20 | 1.90-2.30 | 1.40-2.10 | . |
| M-36 | 0.80-0.90 | 0.15-0.40 | <0.03 | <0.03 | 0.20-0.45 | . | 3.75-4.50 | 7.75-8.75 | 4.50-5.50 | 1.75-2.25 | 5.50-6.50 | . |
| M-41 | 1.05-1.15 | 0.20-0.60 | <0.03 | <0.03 | 0.15-0.50 | . | 3.75-4.50 | 4.75-5.75 | 3.25-4.25 | 1.75-2.25 | 6.25-7.00 | . |
| M-42 | 1.05-1.15 | 0.15-0.40 | <0.03 | <0.03 | 0.15-0.65 | . | 3.50-4.25 | 7.75-8.75 | 9.00-10.00 | 0.95-1.35 | 1.15-1.85 | . |
| M-46 | 1.22-1.30 | 0.20-0.40 | <0.03 | <0.03 | 0.40-0.65 | . | 3.70-4.20 | 7.80-8.80 | 8.00-8.50 | 3.00-3.30 | 1.90-2.20 | . |
| M-48 | 1.50 | . | . | . | . | . | 3.75 | 9.00 | 5.25 | 3.10 | 10.0 | . |
| M-52 | 0.90 | . | . | . | . | . | 4.00 | . | 4.00 | 2.00 | 1.25 | . |
| M-61 | 1.60 | . | . | . | . | . | 4.00 | . | 6.50 | 5.00 | 12.0 | . |
| M-62 | 1.30 | . | . | . | . | . | 3.75 | . | 10.5 | 2.00 | 6.25 | . |
| O-1 | 0.85-1.00 | 1.00-1.40 | <0.03 | <0.03 | <0.50 | . | 0.40-0.60 | . | . | <0.30 | 0.40-0.60 | . |
| O-2 | 0.85-0.95 | 1.40-1.80 | <0.03 | <0.03 | <0.50 | . | <0.35 | . | <0.30 | <0.30 | . | . |
| O-6 | 1.25-1.55 | 0.30-1.10 | <0.03 | <0.03 | 0.55-1.50 | . | <0.30 | . | 0.20-0.30 | . | . | . |
| O-7 | 1.10-1.30 | <1.00 | <0.03 | <0.03 | <0.60 | . | 0.35-0.85 | . | <0.30 | <0.40 | 1.00-2.00 | . |
| P-20 | 0.28-0.40 | 0.60-1.00 | <0.03 | <0.03 | 0.20-0.80 | . | 1.40-2.00 | . | 0.30-0.55 | . | . | . |
| P-21 | 0.18-0.22 | 0.20-0.40 | <0.03 | <0.03 | 0.20-0.40 | 4.00-4.25 | 0.20-0.30 | . | . | 0.15-0.25 | . | Al: 1.05-1.25 |
| P-6 | 0.05-0.15 | 0.35-0.70 | <0.03 | <0.03 | 0.10-0.40 | 3.25-3.75 | 1.25-1.75 | . | . | . | . | . |
| S-1 | 0.40-0.55 | 0.10-0.40 | <0.03 | <0.03 | 0.15-1.20 | . | 1.00-1.80 | . | <0.50 | 0.15-0.30 | 1.50-3.00 | . |
| S-2 | 0.40-0.55 | 0.30-0.50 | <0.03 | <0.03 | 0.90-1.20 | . | . | . | 0.30-0.60 | <0.50 | . | . |
| S-4 | 0.50-0.65 | 0.60-0.95 | <0.03 | <0.03 | 1.75-2.25 | . | <0.35 | . | . | <0.35 | . | . |
| S-5 | 0.50-0.65 | 0.60-1.00 | <0.03 | <0.03 | 1.75-2.25 | . | <0.35 | . | 0.20-1.35 | <0.35 | . | . |
| S-6 | 0.40-0.50 | 1.20-1.50 | <0.03 | <0.03 | 2.00-2.50 | . | 1.20-1.50 | . | 0.30-0.50 | 0.20-0.40 | . | . |
| S-7 | 0.45-0.55 | 0.20-0.80 | <0.03 | <0.03 | 0.20-1.00 | . | 3.00-3.50 | . | 1.30-1.80 | 0.20-0.30* | . | . |
| T-1 | 0.65-0.80 | 0.10-0.40 | <0.03 | <0.03 | 0.20-0.40 | . | 3.75-4.50 | . | . | 0.90-1.30 | 17.25-18.25 | . |
| T-15 | 1.50-1.60 | 0.15-0.40 | <0.03 | <0.03 | 0.15-0.40 | . | 3.75-5.00 | 4.75-5.25 | <1.00 | 4.50-5.25 | 11.75-13.00 | . |
| T-4 | 0.70-0.80 | 0.10-0.40 | <0.03 | <0.03 | 0.20-0.40 | . | 3.75-4.50 | 4.25-5.75 | 0.40-1.00 | 0.80-1.20 | 17.50-19.00 | . |
| T-5 | 0.75-0.85 | 0.20-0.40 | <0.03 | <0.03 | 0.20-0.40 | . | 3.75-5.00 | 7.00-9.50 | 0.50-1.25 | 1.80-2.40 | 17.50-19.00 | . |
| T-6 | 0.75-0.85 | 0.20-0.40 | <0.03 | <0.03 | 0.20-0.40 | . | 4.00-4.75 | 11.00-13.00 | 0.40-1.00 | 1.50-2.10 | 18.50-21.00 | . |
| T-8 | 0.75-0.85 | 0.20-0.40 | <0.03 | <0.03 | 0.20-0.40 | . | 3.75-4.50 | 4.25-5.75 | 0.40-1.00 | 1.80-2.40 | 13.25-14.75 | . |
| W-1 | 0.70-1.50 | 0.10-0.40 | <0.025 | <0.025 | 0.10-0.40 | <0.20 | <0.15 | . | <0.10 | <0.10 | <0.15 | Cu: <0.20 |
| W-2 | 0.85-1.50 | 0.10-0.40 | <0.03 | <0.03 | 0.10-0.40 | <0.20 | <0.15 | . | <0.10 | 0.15-0.35 | <0.15 | Cu: <0.20 |
| W-5 | 1.05-1.15 | 0.10-0.40 | <0.03 | <0.03 | 0.10-0.40 | <0.20 | 0.40-0.60 | . | <0.10 | <0.10 | <0.15 | Cu: <0.20 |

| Number | C | Mn | P | S | Si | Ni | Cr | Co | Mo | V | W | Other |
|--------|---|----|---|---|----|----|----|----|----|---|---|-------|
|--------|---|----|---|---|----|----|----|----|----|---|---|-------|

These are specifications,
not samples for sale.

STAINLESS AND HIGH ALLOY STEEL SPECIFICATIONS

* notes optional chemistry

| Number | C | Mn | P | S | Si | Cu | Ni | Cr | Mo | N | Nb | Other |
|--------|-----------|----------|--------|--------|-----------|-----------|-------------|-------------|-----------|-------|-----------|----------------|
| 13-8PH | <0.05 | <0.20 | <0.01 | <0.008 | <0.10 | . | 7.50-8.50 | 12.25-13.25 | 2.00-2.50 | <0.01 | . | Al: 0.90-1.35 |
| 15-5PH | <0.07 | <1.00 | <0.04 | <0.03 | <1.00 | 2.50-4.50 | 3.50-5.50 | 14.00-15.50 | . | . | 0.15-0.45 | |
| 17-4PH | <0.07 | <1.00 | <0.04 | <0.03 | <1.00 | 3.00-5.00 | 3.00-5.00 | 15.00-17.50 | . | . | 0.15-0.45 | |
| 201 | <0.15 | 5.5-7.5 | <0.060 | <0.03 | <1.00 | . | 3.50-5.50 | 16.00-18.00 | . | <0.25 | . | |
| 202 | <0.15 | 7.5-10.0 | <0.060 | <0.03 | <1.00 | . | 4.00-6.00 | 17.00-19.00 | . | <0.25 | . | |
| 301 | <0.15 | <2.00 | <0.045 | <0.03 | <1.00 | . | 6.00-8.00 | 16.00-18.00 | . | . | . | |
| 302 | <0.15 | <2.00 | <0.045 | <0.03 | <1.00 | . | 8.00-10.00 | 17.00-19.00 | . | . | . | |
| 302B | <0.15 | <2.00 | <0.045 | <0.03 | 2.00-3.00 | . | 8.00-10.00 | 17.00-19.00 | . | . | . | |
| 303 | <0.15 | <2.00 | <0.20 | >0.15 | <1.00 | . | 8.00-10.00 | 17.00-19.00 | <0.60* | . | . | Zr: <0.60* |
| 304 | <0.08 | <2.00 | <0.045 | <0.03 | <1.00 | . | 8.00-10.50 | 18.00-20.00 | . | . | . | |
| 304L | <0.03 | <2.00 | <0.045 | <0.03 | <1.00 | . | 8.00-12.00 | 18.00-20.00 | . | . | . | |
| 305 | <0.12 | <2.00 | <0.045 | <0.03 | <1.00 | . | 10.00-13.00 | 17.00-19.00 | . | . | . | |
| 308 | <0.08 | <2.00 | <0.045 | <0.03 | <1.00 | . | 10.00-12.00 | 19.00-21.00 | . | . | . | |
| 309 | <0.20 | <2.00 | <0.045 | <0.03 | <1.00 | . | 12.00-15.00 | 22.00-24.00 | . | . | . | |
| 310 | <0.25 | <2.00 | <0.045 | <0.03 | <1.50 | . | 19.00-22.00 | 24.00-26.00 | . | . | . | |
| 314 | <0.25 | <2.00 | <0.045 | <0.03 | 1.50-3.00 | . | 19.00-22.00 | 23.00-26.00 | . | . | . | |
| 316 | <0.08 | <2.00 | <0.045 | <0.03 | <1.00 | . | 10.00-14.00 | 16.00-18.00 | 2.00-3.00 | . | . | |
| 316 | <0.08 | <2.00 | <0.045 | <0.03 | <1.00 | . | 10.00-14.00 | 16.00-18.00 | 2.00-3.00 | . | . | |
| 316L | <0.03 | <2.00 | <0.045 | <0.03 | <1.00 | . | 10.00-14.00 | 16.00-18.00 | 2.00-3.00 | . | . | |
| 321 | <0.08 | <2.00 | <0.045 | <0.03 | <1.00 | . | 9.00-12.00 | 17.00-19.00 | . | . | . | Ti: >5xC |
| 347 | <0.08 | <2.00 | <0.045 | <0.03 | <1.00 | . | 9.00-13.00 | 17.00-19.00 | . | . | >10xC | |
| 348 | <0.08 | <2.00 | <0.045 | <0.03 | <1.00 | . | 9.00-13.00 | 17.00-19.00 | . | . | >10xC | Ta: <0.10 |
| 384 | <0.08 | <2.00 | <0.045 | <0.03 | <1.00 | . | 17.00-19.00 | 15.00-17.00 | . | . | . | |
| 385 | <0.08 | <2.00 | <0.045 | <0.03 | <1.00 | . | 14.00-16.00 | 11.50-13.50 | . | . | . | |
| 403 | <0.15 | <1.00 | <0.04 | <0.03 | <0.50 | . | . | 11.50-13.00 | . | . | . | |
| 405 | <0.08 | <1.00 | <0.04 | <0.03 | <1.00 | . | . | 11.50-14.50 | . | . | . | Al: 0.10-0.30 |
| 409 | <0.08 | <1.00 | <0.04 | <0.01 | <1.00 | . | <0.50 | 10.50-11.75 | . | . | . | Ti: 6\mtC-0.75 |
| 410 | <0.15 | <1.00 | <0.04 | <0.03 | <1.00 | . | . | 11.50-13.50 | . | . | . | |
| 414 | <0.15 | <1.00 | <0.04 | <0.03 | <1.00 | . | 1.25-2.50 | 11.50-13.50 | . | . | . | |
| 416 | <0.15 | <1.25 | <0.06 | >0.15 | <1.00 | . | . | 12.00-14.00 | <0.60* | . | . | Zr: <0.60* |
| 420 | >0.15 | <1.00 | <0.04 | <0.03 | <1.00 | . | . | 12.00-14.00 | . | . | . | |
| 422 | 0.20-0.25 | <1.00 | <0.04 | <0.03 | <0.75 | <0.50 | 0.50-1.00 | 11.00-12.50 | 0.75-1.25 | . | . | V: 0.15-0.30 |
| 422 | continued | | | | | | | | | | | W: 0.75-1.25 |
| 430 | <0.12 | <1.00 | <0.04 | <0.03 | <1.00 | . | . | 16.00-18.00 | . | . | . | |
| 430F | <0.12 | <1.25 | <0.06 | >0.15 | <1.00 | . | . | 16.00-18.00 | <0.60* | . | . | Zr: <0.60* |
| 431 | <0.20 | <1.00 | <0.04 | <0.03 | <1.00 | . | 1.25-2.50 | 15.00-17.00 | . | . | . | |
| 440A | 0.60-0.75 | <1.00 | <0.04 | <0.03 | <1.00 | . | . | 16.00-18.00 | <0.75 | . | . | |
| 440B | 0.75-0.95 | <1.00 | <0.04 | <0.03 | <1.00 | . | . | 16.00-18.00 | <0.75 | . | . | |
| 440C | 0.95-1.20 | <1.00 | <0.04 | <0.03 | <1.00 | . | . | 16.00-18.00 | <0.75 | . | . | |
| 450 | <0.05 | <1.00 | <0.03 | <0.03 | <1.00 | 1.25-1.75 | 5.00-7.00 | 14.00-16.00 | 0.50-1.00 | . | 8\mtC | |
| 455 | <0.05 | <0.50 | <0.04 | <0.03 | <0.50 | 1.50-2.50 | 7.50-9.50 | 11.00-12.50 | <0.50 | . | 0.10-0.50 | Ti: 0.80-1.40 |
| 501 | >0.10 | <1.00 | <0.04 | <0.03 | <1.00 | . | . | 4.00-6.00 | 0.40-0.65 | . | . | |
| 502 | <0.10 | <1.00 | <0.04 | <0.03 | <1.00 | . | . | 4.00-6.00 | 0.40-0.65 | . | . | |
| Duplex | <0.05 | <3.00 | <0.035 | <0.03 | <1.50 | <2.50* | 4.00-7.00 | 18.00-25.00 | 0.20-5.50 | <0.40 | . | |

These are specifications,
not samples for sale.