





Wiercenie w pełnym materiale i obróbka otworów

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## Poszerzone przykłady materiałów do tabel z parametrami skrawania

|   | Podgrupa materiałów                                 | Indeks | Skład / Struktura / Obróbka termiczna           |                         | Wytrzymałość<br>N/mm <sup>2</sup> / HB / HRC |
|---|-----------------------------------------------------|--------|-------------------------------------------------|-------------------------|----------------------------------------------|
| P | Stal niestopowa                                     | P.1.1  | < 0,15 % C                                      | wyżarzona               | 420 N/mm <sup>2</sup> / 125 HB               |
|   |                                                     | P.1.2  | < 0,45 % C                                      | wyżarzona               | 640 N/mm <sup>2</sup> / 190 HB               |
|   |                                                     | P.1.3  |                                                 | ulepszona cieplnie      | 840 N/mm <sup>2</sup> / 250 HB               |
|   |                                                     | P.1.4  | < 0,75 % C                                      | wyżarzona               | 910 N/mm <sup>2</sup> / 270 HB               |
|   |                                                     | P.1.5  |                                                 | ulepszona cieplnie      | 1010 N/mm <sup>2</sup> / 300 HB              |
|   | Stal niskostopowa                                   | P.2.1  |                                                 | wyżarzona               | 610 N/mm <sup>2</sup> / 180 HB               |
|   |                                                     | P.2.2  |                                                 | ulepszona cieplnie      | 930 N/mm <sup>2</sup> / 275 HB               |
|   |                                                     | P.2.3  |                                                 | ulepszona cieplnie      | 1010 N/mm <sup>2</sup> / 300 HB              |
|   |                                                     | P.2.4  |                                                 | ulepszona cieplnie      | 1200 N/mm <sup>2</sup> / 375 HB              |
|   | Stal wysokostopowa i wysokostopowa stal narzędziowa | P.3.1  |                                                 | wyżarzona               | 680 N/mm <sup>2</sup> / 200 HB               |
|   |                                                     | P.3.2  |                                                 | hartowana i odpuszczana | 1100 N/mm <sup>2</sup> / 300 HB              |
|   |                                                     | P.3.3  |                                                 | hartowana i odpuszczana | 1300 N/mm <sup>2</sup> / 400 HB              |
|   | Stal nierdzewna                                     | P.4.1  | ferrytyczna / martenzytyczna                    | wyżarzona               | 680 N/mm <sup>2</sup> / 200 HB               |
|   |                                                     | P.4.2  | martenzytyczna                                  | ulepszona cieplnie      | 1010 N/mm <sup>2</sup> / 300 HB              |
| M | Stal nierdzewna                                     | M.1.1  | austenityczna / austenityczno-ferrytyczna       | hartowana               | 610 N/mm <sup>2</sup> / 180 HB               |
|   |                                                     | M.2.1  | austenityczna                                   | ulepszona cieplnie      | 300 HB                                       |
|   |                                                     | M.3.1  | austenityczna / ferrytyczna (Duplex)            |                         | 780 N/mm <sup>2</sup> / 230 HB               |
| K | Żeliwo szare                                        | K.1.1  | perlityczne / ferrytyczne                       |                         | 350 N/mm <sup>2</sup> / 180 HB               |
|   |                                                     | K.1.2  | perlityczne (martenzytyczne)                    |                         | 500 N/mm <sup>2</sup> / 260 HB               |
|   | Żeliwo sferoidalne                                  | K.2.1  | ferrytyczne                                     |                         | 540 N/mm <sup>2</sup> / 160 HB               |
|   |                                                     | K.2.2  | perlityczne                                     |                         | 845 N/mm <sup>2</sup> / 250 HB               |
|   | Żeliwo ciągliwe                                     | K.3.1  | ferrytyczne                                     |                         | 440 N/mm <sup>2</sup> / 130 HB               |
|   |                                                     | K.3.2  | perlityczne                                     |                         | 780 N/mm <sup>2</sup> / 230 HB               |
| N | Aluminium – stop do próbek plastycznej              | N.1.1  | nietwardzalny wydzieleniowo                     |                         | 60 HB                                        |
|   |                                                     | N.1.2  | utwardzalny wydzieleniowo                       | utwardzony              | 340 N/mm <sup>2</sup> / 100 HB               |
|   | Aluminium – stop odlewniczy                         | N.2.1  | ≤ 12 % Si, nietwardzalny wydzieleniowo          |                         | 250 N/mm <sup>2</sup> / 75 HB                |
|   |                                                     | N.2.2  | ≤ 12 % Si, utwardzalny wydzieleniowo            | utwardzony              | 300 N/mm <sup>2</sup> / 90 HB                |
|   |                                                     | N.2.3  | > 12 % Si, nietwardzalny wydzieleniowo          |                         | 440 N/mm <sup>2</sup> / 130 HB               |
|   | Miedź i stopy miedzi (brąz / mosiądz)               | N.3.1  | Stopy automatowy, PB > 1 %                      |                         | 375 N/mm <sup>2</sup> / 110 HB               |
|   |                                                     | N.3.2  | CuZn, CuSnZn                                    |                         | 300 N/mm <sup>2</sup> / 90 HB                |
|   |                                                     | N.3.3  | CuSn, miedź bezolowiowa i miedź elektrolityczna |                         | 340 N/mm <sup>2</sup> / 100 HB               |
|   | Stopy magnezu                                       | N.4.1  | Magnez i stopy magnezu                          |                         | 70 HB                                        |
| S | Stopy żaroodporne                                   | S.1.1  | na bazie Fe                                     | wyżarzane               | 680 N/mm <sup>2</sup> / 200 HB               |
|   |                                                     | S.1.2  |                                                 | utwardzone              | 950 N/mm <sup>2</sup> / 280 HB               |
|   |                                                     | S.2.1  |                                                 | wyżarzane               | 840 N/mm <sup>2</sup> / 250 HB               |
|   |                                                     | S.2.2  | na bazie Ni lub Co                              | utwardzone              | 1180 N/mm <sup>2</sup> / 350 HB              |
|   |                                                     | S.2.3  |                                                 | odlewane                | 1080 N/mm <sup>2</sup> / 320 HB              |
|   | Stopy tytanu                                        | S.3.1  | Czysty tytan                                    |                         | 400 N/mm <sup>2</sup>                        |
|   |                                                     | S.3.2  | Stopy α + β                                     | utwardzone              | 1050 N/mm <sup>2</sup> / 320 HB              |
|   |                                                     | S.3.3  | Stopy β                                         |                         | 1400 N/mm <sup>2</sup> / 410 HB              |
| H | Stal hartowana                                      | H.1.1  |                                                 | hartowana i odpuszczana | 46–55 HRC                                    |
|   |                                                     | H.1.2  |                                                 | hartowana i odpuszczana | 56–60 HRC                                    |
|   |                                                     | H.1.3  |                                                 | hartowana i odpuszczana | 61–65 HRC                                    |
|   |                                                     | H.1.4  |                                                 | hartowana i odpuszczana | 66–70 HRC                                    |
|   | Żeliwo utwardzone                                   | H.2.1  |                                                 | odlewane                | 400 HB                                       |
|   | Utwardzone żeliwo sferoidalne                       | H.3.1  |                                                 | hartowane i odpuszczane | 55 HRC                                       |
| O | Materiały niemetalowe                               | O.1.1  | Tworzywa sztuczne, duroplastyczne               |                         | ≤ 150 N/mm <sup>2</sup>                      |
|   |                                                     | O.1.2  | Tworzywa sztuczne, termoplastyczne              |                         | ≤ 100 N/mm <sup>2</sup>                      |
|   |                                                     | O.2.1  | wzmocnione włóknem aramidowym                   |                         | ≤ 1000 N/mm <sup>2</sup>                     |
|   |                                                     | O.2.2  | wzmocnione włóknem szklanym/węglowym            |                         | ≤ 1000 N/mm <sup>2</sup>                     |
|   |                                                     | O.3.1  | Grafit                                          |                         |                                              |

\* wytrzymałość na rozciąganie

Na kolejnych 16 stronach znajdują się poszerzone przykłady materiałów do znanych indeksów z dodatkowymi międzynarodowymi normami.

Przegląd norm:

### DIN

Deutsche Industrie Norm  
Niemiecka norma przemysłowa

### AFNOR

Association Francaise de Normalisation  
Francuska Norma Przemysłowa

### UNI

Unificazione Italiana  
Włoska norma przemysłowa

### ČSN

Czechosłowacka norma przemysłowa

### BS

British Standards  
Standardowa norma brytyjska

### SIS

Standardiseringen i Sverige  
Szwedzka norma przemysłowa

### UNE

Hiszpańska norma

### JIS

Japanese Industrial Standard  
Japońska norma przemysłowa

### GOST / GOCT

Rosyjska norma przemysłowa

### UNS

Unified Numbering System

### USA

Pod nazwą **USA** ujęto kilka norm amerykańskich

|   | Indeks | Numer materialu | DIN        | AFNOR             | UNI             | ČSN     | BS            | SIS        | UNE            | JIS             | GOST            | UNS     | USA          |
|---|--------|-----------------|------------|-------------------|-----------------|---------|---------------|------------|----------------|-----------------|-----------------|---------|--------------|
| P | P.1.1  | 1.5423          | 16 Mo 5    |                   | 16 Mo 5         |         | 1503-245-420  |            |                |                 |                 | G 45200 | 4520         |
|   |        | 1.0037          | St 37-2    | E 24-2            |                 | 11 343  |               |            |                | STKM 12 C       |                 |         |              |
|   |        | 1.0044          | St 44-2    | E 28-2            | Fe 430 B FN     | 11 443  | 4360-43 B     | 1412       |                | SM 41 B         |                 |         | A 570 Gr. 40 |
|   |        | 1.0116          | St 37-3    | E 24-3; E 24-4    | Fe 360 D FF     | 11 378  | 4360-40 C     | 1312; 1313 |                |                 | St 3 kp; ps; sp |         | A 573 Gr. 58 |
|   |        | 1.0144          | St 44-3    | E 28-3; E 28-4    | Fe 430 D FF     | 11 448  | 4360-43 C     | 1412; 1414 |                | SM 41 C         | St 4 kp; ps; sp |         | A 573 Gr. 70 |
|   |        | 1.0301          | C 10       | AF 34 C 10; XC 10 | C 10            | 12 010  | 045 M 10      |            |                | S 10 C          | 10              | G 10100 | 1010         |
|   |        | 1.0401          | C 15       | AF3 7 C 12; XC 18 | C 15; C 16      | 12 020  | 080 M 15      | 1350       | F-111          |                 |                 | G 10170 | 1015         |
|   |        | 1.0402          | C 22       | AF 42 C 20        | C 20; C 21      | 12 024  | 050 A 20      | 1450       | F-112          |                 | 20              | G 10200 | 1020         |
|   |        | 1.0406          | C 25       | AF 50 C 30        | C 25            | 12 030  | 070 M 26      |            |                |                 |                 |         | 1025         |
|   |        | 1.0570          | St 52-3    | E 36-3; E 36-4    | Fe 510 B; C; D  | 11 523  | 4360-50 B     | 2132       |                | SM 50 YA        | 17 GS           |         |              |
|   |        | 1.1121          | Ck 10      | XC 10             | C 10            | 12 010  | 045 M 10      | 1265       | F-1510         | S 10 C; S 9 CK  | 08; 10          | G 10100 | 1010         |
|   |        | 1.1133          | 20 Mn 5    | 20 M 5            | G 22 Mn 3       | 42 2714 | 120 M 19      |            |                | SMnC 420        |                 | G 10220 | 1022; 1518   |
|   |        | 1.1141          | Ck 15      | XC 15; XC 18      | C 15; C 16      | 12 020  | 080 M 15      | 1370       | F-1511         | S 15 C; S 15 CK | 15              | G 10170 | 1015         |
|   |        | 1.1151          | Ck 22      | XC 25; XC 18      | C 20            |         | 050 A 20      |            |                | S 20 C; S 20 CK | 20              |         | 1023         |
|   |        | 1.1158          | Ck 25      | XC 25             | C 25            | 12 030  | 070 M 26      |            |                | S 25 C          | 25              | G 10250 | 1025         |
|   | P.1.2  | 1.0050          | St 50-2    | A 50-2            | Fe 490          | 11 500  | 4360-50 B     | 2172       |                | SS 50           | BSt 5 ps; sp    |         | A 570 Gr. 50 |
|   |        | 1.0060          | St 60-2    | A 60-2            | Fe 590; Fe 60-2 | 11 600  | 4360-SSE; SSC |            |                | SM 58           | St 6 ps; sp     |         |              |
|   |        | 1.0406          | C 25       | AF 50 C 30        | C 25            | 12 030  | 070 M 26      |            |                |                 |                 |         | 1025         |
|   |        | 1.0420          | GS-38      |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.0446          | GS-45      |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.0481          | 17 Mn 4    |                   |                 | 11 748  |               |            |                |                 |                 |         |              |
|   |        | 1.0501          | C 35       | AF 55 C 35        | C 35            | 12 040  | 060 A 35      | 1550       | F-113          |                 | 35              | G 10350 | 1035         |
|   |        | 1.0503          | C 45       | AF 65 C 45        | C 45            | 12 050  | 080 M 46      | 1650       | F-114          |                 | 45              | G 10430 | 1045         |
|   |        | 1.0511          | C 40       | AF 60 C 40        | C 40            | 12 041  |               |            |                |                 |                 |         | 1040         |
|   |        | 1.0528          | C 30       |                   |                 | 12 031  |               |            |                |                 |                 |         |              |
|   |        | 1.0540          | C 50       |                   |                 | 12 051  |               |            |                |                 |                 |         |              |
|   |        | 1.0552          | GS-52      |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.0558          | GS-60      |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.0619          | GS-C 25    |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.0711          | 9 S 20     |                   | CF 9 S 22       |         | 220 M 07      | 220 M 07   |                | SUM 21          | SUM 21          | G 12120 | 1212         |
|   |        | 1.0715          | 9 SMn 28   | S 250             | CF 9 SMn 28     | 11 109  | 230 M 07      | 1912       | F-211 / F-2111 | SUM 22          |                 | G 12130 | 1213         |
|   |        | 1.0718          | 9 SMnPb 28 | S 250 Pb          | CF 9 SMnPb 28   |         |               | 1914       | F-212 / F-2112 | SUM 22 L        |                 | G 12134 | 12 L 13      |
|   |        | 1.0721          | 10 S 20    | 10 F 1            | CF 10 S 20      | 10 110  | 210 M 15      |            | F-2121         |                 |                 |         | 1108         |
|   |        | 1.0722          | 10 SPb 20  | 10 PbF 2          | CF 10 SPb 20    |         |               |            | F-2122         |                 |                 |         | 11 L 08      |
|   |        | 1.0723          | 15 S 20    |                   |                 |         | 210 A 15      | 1922       |                | SUM 32          |                 |         |              |
|   |        | 1.0736          | 9 SMn 36   | S 300             | CF 9 SMn 36     |         | 240 M 07      |            | F-2113         |                 |                 | G 12150 | 1215         |
|   |        | 1.0737          | 9 SMnPb 36 | S 300 Pb          | CF 9 SMnPb 36   |         |               | 1926       | F-2114         |                 |                 | G 12144 | 12 L 14      |
|   |        | 1.1118          | GS-24 Mn 6 |                   |                 | 42 2714 |               |            |                |                 |                 |         |              |
|   |        | 1.1120          | GS-20 Mn 5 |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.1131          | GS-16 Mn 5 |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.1138          | GS-21 Mn 5 |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.1142          | GS-Ck 16   |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.1151          | Ck 22      | XC 25; XC 18      | C 20            |         | 050 A 20      |            |                | S 20 C; S 20 CK | 20              |         | 1023         |
|   |        | 1.1155          | GS-Ck 25   |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.1158          | Ck 25      | XC 25             | C 25            | 12 030  | 070 M 26      |            |                | S 25 C          | 25              | G 10250 | 1025         |
|   |        | 1.1178          | Ck 30      |                   |                 |         |               |            |                |                 |                 |         |              |
|   |        | 1.1181          | Ck 35      | XC 38 H1; XC 32   | C 35            | 12 040  | 080 M 36      | 1572       |                | S 35 C          | 35              | G 10340 | 1035         |
|   |        | 1.1186          | Ck 40      | XC 42 H1          | C 40            | 12 041  | 080 M 40      |            |                | S 40 C          | 40              |         | 1040         |
|   |        | 1.1191          | Ck 45      | XC 42             | C 45            | 12 050  | 080 M 46      | 1672       |                | S 45 C          | 45              | G 10420 | 1045         |
|   |        | 1.1206          | Ck 50      | XC 48 H1          |                 | 12 051  | 080 M 50      |            |                |                 | 50              |         | 1050         |
|   |        | 1.1730          | C 45 W     | Y3 42             |                 | 19 083  |               |            |                |                 |                 |         |              |

|   | Indeks | Numer materialu | DIN             | AFNOR          | UNI           | ČSN    | BS       | SIS        | UNE     | JIS                  | GOST    | UNS     | USA        |
|---|--------|-----------------|-----------------|----------------|---------------|--------|----------|------------|---------|----------------------|---------|---------|------------|
| P | P.1.3  | 1.0501          | C 35            | AF 55 C 35     | C 35          | 12 040 | 060 A 35 | 1550       | F-113   |                      | 35      | G 10350 | 1035       |
|   |        | 1.0503          | C 45            | AF 65 C 45     | C 45          | 12 050 | 080 M 46 | 1650       | F-114   |                      | 45      | G 10430 | 1045       |
|   |        | 1.0511          | C 40            | AF 60 C 40     | C 40          | 12 041 |          |            |         |                      |         |         | 1040       |
|   |        | 1.0528          | C 30            |                |               | 12 031 |          |            |         |                      |         |         |            |
|   |        | 1.0540          | C 50            |                |               | 12 051 |          |            |         |                      |         |         |            |
|   |        | 1.0726          | 35 S 20         | 35 MF 4        |               | 11 140 | 212 M 36 | 1957       | F-210.G |                      |         | G 11400 | 1140       |
|   |        | 1.0727          | 45 S 20         | 45 MF 4        |               |        | 212 M 44 | 1973       |         |                      |         | G 11460 | 1146       |
|   |        | 1.0728          | 60 S 20         | 60 MF 4        |               |        |          |            |         |                      |         |         |            |
|   |        | 1.1178          | Ck 30           |                |               |        |          |            |         |                      |         |         |            |
|   |        | 1.1181          | Ck 35           | XC 38 H1:XC 32 | C 35          | 12 040 | 080 M 36 | 1572       |         | S 35 C               | 35      | G 10340 | 1035       |
|   |        | 1.1186          | Ck 40           | XC 42 H1       | C 40          | 12 041 | 080 M 40 |            |         | S 40 C               | 40      |         | 1040       |
|   |        | 1.1191          | Ck 45           | XC 42          | C 45          | 12 050 | 080 M 46 | 1672       |         | S 45 C               | 45      | G 10420 | 1045       |
|   |        | 1.1206          | Ck 50           | XC 48 H1       |               | 12 051 | 080 M 50 |            |         |                      | 50      |         | 1050       |
|   | P.1.4  | 1.0535          | C 55            | AF 70 C55      | C 55          | 12 060 | 070 M 55 | 1655       |         |                      | 55      |         | 1055       |
|   |        | 1.0601          | C 60            | CC 55          | C 60          | 12 061 | 080 A 62 |            |         |                      | 60      | G 10600 | 1060       |
|   |        | 1.0757          | 46 SPb 20       |                |               |        |          |            |         |                      |         |         |            |
|   |        | 1.1203          | Ck 55           | XC 55          | C50           | 12 060 | 070 M 55 |            |         | S 55 C               | 55      |         | 1055       |
|   |        | 1.1221          | Ck 60           | XC 60          | C60           | 12 061 | 080 A 62 | 1665; 1678 |         | S 58 C               | 60; 60G | G 10640 | 1060       |
|   |        | 1.1248          | Ck 75           | XC 75          | C 75          | 12 081 | 060 A 78 | 1774; 1778 |         |                      | 75      | G 10780 | 1078; 1080 |
|   |        | 1.1274          | Ck 101          | XC 100         |               |        | 060 A 96 | 1870       |         | SUP 4                |         | G 10950 | 1095       |
|   |        | 1.1520          | C 70 W1         |                |               |        |          |            |         |                      |         |         |            |
|   |        | 1.1525          | C 80 W1         | Y1 90; Y1 80   | C 80 KU       |        |          |            |         |                      | U8A     | T 72301 | W 108      |
|   |        | 1.1545+G502     | C 105 W1        | Y1 105         | C 100 KU      |        |          | 1880       |         |                      | U10A    | T 72301 | W 110      |
|   |        | 1.1620          | C 70 W2         |                |               | 19 132 |          |            |         |                      |         |         |            |
|   |        | 1.1625          | C 80 W2         |                | C 80 KU       | 19 152 | BW 1 B   |            |         | SKC 3; SK 5;<br>SK 6 | U8; 80  | T 72301 | W 1        |
|   |        | 1.1645          | C 105 W2        | Y2 105         | C 100 KU      | 19 191 |          |            |         | SK 3                 | U10     | T 72301 |            |
|   |        | 1.1663          | C 125 W         | Y2 120         | C 120 KU      |        |          |            |         | SK 2                 | U13     | T 72301 | W 112      |
|   |        | 1.1673          | C 135 W         | Y2 140         | C 140 KU      |        |          |            |         | SK 1                 |         |         |            |
|   |        | 1.1740          | C 60 W          | Y3 55          |               | 19 103 |          |            |         | SK 7                 |         |         |            |
|   |        | 1.1750          | C 75 W          |                |               |        | BW 1A    |            |         |                      | 75      |         | W 1        |
|   |        | 1.1820          | C 55 W          |                |               |        |          |            |         |                      |         |         |            |
|   |        | 1.1830          | C 85 W          | Y3 90          |               |        |          |            |         | SK 5                 |         |         |            |
|   | P.1.5  | 1.0535          | C 55            | AF 70 C55      | C 55          | 12 060 | 070 M 55 | 1655       |         |                      | 55      |         | 1055       |
|   |        | 1.0601          | C 60            | CC 55          | C 60          | 12 061 | 080 A 62 |            |         |                      | 60      | G 10600 | 1060       |
|   |        | 1.1203          | Ck 55           | XC 55          | C50           | 12 060 | 070 M 55 |            |         | S 55 C               | 55      |         | 1055       |
|   |        | 1.1221          | Ck 60           | XC 60          | C60           | 12 061 | 080 A 62 | 1665; 1678 |         | S 58 C               | 60; 60G | G 10640 | 1060       |
|   |        | 1.1231          | Ck 67           | XC 68          | C 70          | 12 071 | 060 A 67 | 1770       |         |                      | 70      | G 10700 | 1070       |
|   |        | 1.1274          | Ck 101          | XC 100         |               |        | 060 A 96 | 1870       |         | SUP 4                |         | G 10950 | 1095       |
|   |        | 1.1520          | C 70 W1         |                |               |        |          |            |         |                      |         |         |            |
|   | P.2.1  | 1.2162          | 21 MnCr 5       | 20 NC 5        |               | 19 487 |          |            |         | SCR 420 H            |         |         |            |
|   |        | 1.2210          | 115 CrV 3       | 100 C 3        | 107 CrV 3 KU  | 19 421 |          |            |         |                      |         | T 61202 | L 2        |
|   |        | 1.2323          | GS-48 CrMoV 6 7 |                |               | 19 512 |          |            |         |                      |         |         |            |
|   |        | 1.2341          | X 6 CrMo 4      |                |               |        |          |            |         |                      |         |         |            |
|   |        | 1.2369          | 81 CrMov 42 16  |                |               |        |          |            |         |                      |         |         |            |
|   |        | 1.2516          | 120 WV 4        | 110 WC 20      | 110 W 4 KU    | 19 711 | BF 1     |            |         |                      |         |         |            |
|   |        | 1.2542          | 45 WCrV 7       |                | 45 WCrV 8 KU  | 19 732 | BS 1     | 2710       |         |                      |         | T 41901 | S 1        |
|   |        | 1.2550          | 60 WCrV 7       | 55 WC 20       | 55 WCrV 8 KU  | 19 735 |          |            |         |                      |         |         |            |
|   |        | 1.2711          | 54 NiCrMoV 6    | 55 NCDV 6      |               | 19 662 |          |            |         |                      |         |         |            |
|   |        | 1.2735          | 15 NiCr 14      | 10 NC 12       |               | 16 240 |          |            |         | SNC 22               |         | T 51606 |            |
|   |        | 1.2762          | 75 CrMoNiW 6 7  |                |               |        |          |            |         |                      |         |         |            |
|   |        | 1.2842          | 90 MnCrV 8      | 90 MV 8        | 90 MnVCr 8 KU | 19 314 | BO 2     |            |         |                      |         | T 31502 | O 2        |

|   | Indeks | Numer materialu | DIN              | AFNOR      | UNI            | ČSN    | BS                  | SIS        | UNE             | JIS              | GOST         | UNS     | USA                |
|---|--------|-----------------|------------------|------------|----------------|--------|---------------------|------------|-----------------|------------------|--------------|---------|--------------------|
| P | P.2.1  | 1.5015          | GS-8 Mn 7        |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.5122          | 37 MnSi 4        |            |                | 13 240 |                     |            |                 |                  |              |         |                    |
|   |        | 1.5415          | 15 Mo 3          | 15 D 3     | 16 Mo 3        | 15 020 | 1501-240            | 2912       |                 |                  |              |         | A 204 Gr. A        |
|   |        | 1.5419          | GS-22 Mo 4       |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.5621          | GS-10 Ni 6       |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.5622          | 14 Ni 6          | 16 N 6     | 14 Ni 6        |        |                     |            |                 |                  |              |         | A 350-LF 5         |
|   |        | 1.5633          | GS-24 Ni 8       |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.5638          | GS-10 Ni 14      |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.5732          | 14 NiCr 10       | 14 NC 11   | 16 NiCr 11     |        |                     |            | F-1540          | SNC 415 (H)      |              |         | 3415               |
|   |        | 1.5752          | 14 NiCr 14       | 12 NC 15   |                | 16 240 | 655 M 13            |            | F-1540          | SNC 815 (H)      |              | G 33106 | 3310; 9314         |
|   |        | 1.5919          | 15 CrNi 6        | 16 NC 6    | 16 CrNi 4      | 16 220 | S 107               |            |                 |                  |              |         |                    |
|   |        | 1.5920          | 18 CrNi 8        | 20 NC 6    |                | 13 231 |                     |            |                 |                  |              |         |                    |
|   |        | 1.6221          | GS-13 MnNi 6 4   |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.6523          | 21 NiCrMo 2      | 20 NCD 2   | 20 NiCrMo 2    |        | 805 M 20            | 2506       | F-1522          | SNCM 220 (H)     |              | G 86170 | 8620               |
|   |        | 1.6587          | 17 CrNiMo 6      | 18 NCD 6   | 18 NiCrMo 7    |        | 820 A 16            |            |                 |                  |              |         |                    |
|   |        | 1.6750          | GS-20 NiCrMo 3 7 |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7003          | 38 Cr 2          | 38 C 2     | 38 Cr 2        |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7006          | 46 Cr 2          | 42 C 2     | 45 Cr 2        |        |                     |            |                 |                  |              |         | 5045               |
|   |        | 1.7012          | 13 Cr 2          |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7015          | 15 Cr 3          | 12 C 3     |                | 14 120 | 523 M 15            |            |                 | SCr 415 (H)      | 15Ch         | G 50150 | 5015               |
|   |        | 1.7020          | 32 Cr 2          |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7030          | 28 Cr 4          |            |                |        | 530 A 30            |            |                 |                  | 30Ch         |         | 5130               |
|   |        | 1.7033          | 34 Cr 4          | 32 C 4     | 34 Cr 4 (KB)   |        | 530 A 32            |            |                 | SCr 430 (H)      | 35Ch         | G 51320 | 5132               |
|   |        | 1.7131          | 16 MnCr 5        | 16 MC 5    | 16 MnCr 5      | 14 220 | 527 M 17            | 2511       | F-1516 / F-1517 | SCR 415          | 18ChG        | G 51170 | 5115               |
|   |        | 1.7139          | 16 MnCrS 5       |            |                |        |                     |            | F-150D          |                  |              |         |                    |
|   |        | 1.7147          | 20 MnCr 5        | 20 MC 5    | 20 MnCr 5      | 14 221 |                     |            |                 | SMnC 420 (H)     | 18ChG        | G 51200 | 5120               |
|   |        | 1.7149          | 20 MnCrS 5       |            |                |        |                     |            | F-1551          |                  |              |         |                    |
|   |        | 1.7218          | 25 CrMo 4        | 25 CD 4 S  | 25 CrMo 4 (KB) | 15 130 | 1717 CDS 110        | 2225       |                 | SCM 420; SCM 430 | 30ChM        | G 41300 | 4130               |
|   |        | 1.7219          | GS-26 CrMo 4     |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7220          | 34 CrMo 4        | 35 CD 4    | 35 CrMo 4      | 15 131 | 708 A 37            | 2234       |                 | SCM 432; SCCrM 3 | AS38ChGM     | G 41350 | 4135; 4137         |
|   |        | 1.7262          | 15 CrMo 5        | 12 CD 4    | 12 CrMo 4      |        |                     |            |                 | SCM 415 (H)      |              |         |                    |
|   |        | 1.7264          | 20 CrMo 5        | 18 CD 4    |                |        |                     |            |                 | SCM 421          |              |         |                    |
|   |        | 1.7271          | 23 CrMoB 3 3     |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7311          | 20 CrMo 2        |            |                |        |                     |            | F-1523          |                  |              |         |                    |
|   |        | 1.7321          | 20 MoCr 4        | 20 CD 4    |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7335          | 13 CrMo 4 4      | 15 CD 3.5  | 14 CrMo 4 5    | 15 121 | 1501-620 Gr. 27     | 2216       |                 |                  | 12ChM; 15ChM |         | A 182-F11; F12     |
|   |        | 1.7337          | 16 CrMo 4 4      | 15 CD 4.5  | 14 CrMo 4 5    |        | 1501-620 Gr. 27     | 2216       |                 |                  | 15ChM        |         | A 387 Gr. 12 Cl. 2 |
|   |        | 1.7357          | GS-17 CrMo 5 5   |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7363          | GS-12 CrMo 19 5  |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7377          | GS-17 CrMo 9 10  |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7379          | GS-18 CrMo 9 10  |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.7380          | 10 CrMo 9 10     | 10 CD 9.10 | 12 CrMo 9 10   |        | 1501-622 Gr. 31; 45 | 2218       |                 |                  |              | J 21890 | A 182-F22          |
|   |        | 1.7715          | 14 MoV 6 3       |            |                |        | 1503-660-440        |            |                 |                  |              |         |                    |
|   |        | 1.7725          | GS-30 CrMoV 6 4  |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.8504          | 34 CrAl 6        |            |                | 14 340 |                     |            |                 |                  |              |         |                    |
|   |        | 1.8506          | 34 CrAlS 5       |            |                |        |                     |            |                 |                  |              | K 23745 |                    |
|   |        | 1.8521          | 15 CrMoV 5 9     |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.0904          | 55 Si 7          | 55 S 7     | 55 Si 8        |        | 250 A 53            | 2085; 2090 |                 |                  | 55S2         |         | 9255               |
|   | P.2.2  | 1.2067          | 100 Cr 6         | Y 100 C 6  |                |        | BL 3                |            |                 |                  |              | T 61203 | L 3                |
|   |        | 1.2101          | 62 SiMnCr 4      |            |                |        |                     |            |                 |                  |              |         |                    |
|   |        | 1.2103          | 58 SiCr 8        |            |                | 19 452 |                     |            |                 |                  |              |         |                    |

|   | Indeks | Numer materialu | DIN               | AFNOR        | UNI              | ČSN    | BS         | SIS  | UNE             | JIS         | GOST      | UNS     | USA   |
|---|--------|-----------------|-------------------|--------------|------------------|--------|------------|------|-----------------|-------------|-----------|---------|-------|
| P | P.2.2  | 1.2108          | 90 CrSi 5P        |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.2162          | 21 MnCr 5         | 20 NC 5      |                  | 19 487 |            |      |                 | SCR 420 H   |           |         |       |
|   |        | 1.2210          | 115 CrV 3         | 100 C 3      | 107 CrV 3 KU     | 19 421 |            |      |                 |             |           | T 61202 | L 2   |
|   |        | 1.2311          | 40 CrMnMo 7       |              |                  | 19 520 |            |      |                 |             |           |         |       |
|   |        | 1.2312          | 40 CrMnMoS 8 6    | 40 CMD 8 + S |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.2323          | GS-48 CrMoV 6 7   |              |                  | 19 512 |            |      |                 |             |           |         |       |
|   |        | 1.2330          | 35 CrMo 4         | 34 CD 4      | 35 CrMo 4        |        | 708 A 37   | 2234 |                 |             | 35 HM     | T 51620 | 4135  |
|   |        | 1.2332          | 47 CrMo 4         | 42 CD 4      | 40 CrMo 4        |        | 708 M 40   | 2244 |                 |             |           |         | 4142  |
|   |        | 1.2419          | 105 WC 6          | 105 WC 13    | 107 WC 5 KU      |        |            |      |                 | SKS 31      | ChWG      |         |       |
|   |        | 1.2510          | 100 MnCrW 4       | 90 MWCV 5    | 95 MnWC 5 KU     | 19 314 | BO 1       | 2140 | F-5220          | SKS 3       |           | T 31501 | O 1   |
|   |        | 1.2542          | 45 WC 7           |              | 45 WC 8 KU       | 19 732 | BS 1       | 2710 |                 |             |           | T 41901 | S 1   |
|   |        | 1.2550          | 60 WC 7           | 55 WC 20     | 55 WC 8 KU       | 19 735 |            |      |                 |             |           |         |       |
|   |        | 1.2711          | 54 NiCrMoV 6      | 55 NCDV 6    |                  | 19 662 |            |      |                 |             |           |         |       |
|   |        | 1.2713          | 55 NiCrMoV 6      | 55 NCDV 7    |                  | 19 662 |            |      | F-520.S         | SKT 4       | 5ChNM     | T 61206 | L 6   |
|   |        | 1.2721          | 50 NiCr 13        |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.2738          | 40 CrMnNiMo 8     |              |                  |        |            |      | F-5303          |             |           |         |       |
|   |        | 1.2826          | 60 MnSiCr 4       |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.2833          | 100 V 1           | Y1 105 V     | 102 V 2 KU       | 19 356 | BW 2       |      |                 | SKS 43      |           | T 72302 | W 210 |
|   |        | 1.2842          | 90 MnCrV 8        | 90 MV 8      | 90 MnVC 8 KU     | 19 314 | BO 2       |      |                 |             |           | T 31502 | O 2   |
|   |        | 1.3505          | 100 Cr 6          | 100 C 6      | 100 Cr 6         | 14 100 | 534 A 99   | 2258 | F-131 / F-1310  | SUJ 2       | SchCh 15  | G 52986 | 52100 |
|   |        | 1.3520          | 100 CrMn 6        |              |                  | 14 209 |            |      |                 |             |           |         |       |
|   |        | 1.3561          | 44 Cr 2           |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.3563          | 43 CrMo 4         |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.5120          | 38 MnSi 4         |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.5121          | 46 MnSi 4         |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.5122          | 37 MnSi 5         |              |                  | 13 240 |            |      |                 |             |           |         |       |
|   |        | 1.5131          | 50 MnSi 4         |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.5141          | 53 MnSi 4         |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.5223          | 42 MnV 7          |              |                  | 13 242 |            |      |                 |             |           |         |       |
|   |        | 1.5710          | 36 NiCr 6         | 35 NC 6      |                  | 16 240 | 640 A 35   |      |                 | SNC 236     |           |         | 3135  |
|   |        | 1.5736          | 36 NiCr 10        | 30 NC 11     | 35 NiCr 9        |        |            |      |                 | SNC 631 (H) |           |         | 3435  |
|   |        | 1.5755          | 31 NiCr 14        | 18 NC 13     |                  | 14 440 | 653 M 31   |      |                 | SNC 836     |           |         |       |
|   |        | 1.6511          | 36 CrNiMo 4       | 40 NCD 3     | 38 NiCrMo 4 (KB) | 16 341 | 816 M 40   |      |                 |             | 40 ChN2MA | G 98400 | 9840  |
|   |        | 1.6513          | 28 NiCrMo 4       |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.6546          | 40 NiCrMo 2 2     | 40 NCD 2     | 40 NiCrMo 2 (KB) |        | 311-Type 7 |      |                 | SNCM 240    | 38ChGNM   | G 87400 | 8740  |
|   |        | 1.6565          | 40 NiCrMo 6       |              |                  |        | 311-Type 6 |      |                 | SNCM 439    | 40Ch2N2MA |         | 4340  |
|   |        | 1.6570          | GS-30 NiCrMo 8 5  |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.6580          | 30 CrNiMo 8       | 30 CND 8     | 30 NiCrMo 8      |        | 823 M 30   |      | F-1272          | SNCM 431    |           |         |       |
|   |        | 1.6582          | 34 CrNiMo 6       | 35 NCD 6     | 35 NiCrMo 6 (KW) | 16 342 | 817 M 40   | 2541 | F-128 / F-1270  | SNCM 447    | 38Ch2N2MA |         | 4340  |
|   |        | 1.6746          | 32 NiCrMo 14 5    | 35 NCD 14    |                  |        | 830 M 31   |      |                 |             |           |         |       |
|   |        | 1.6781          | GS-18 NiCrMo 12 6 |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.7003          | 38 Cr 2           | 38 C 2       | 38 Cr 2          |        |            |      |                 |             |           |         |       |
|   |        | 1.7006          | 46 Cr 2           | 42 C 2       | 45 Cr 2          |        |            |      |                 |             |           |         | 5045  |
|   |        | 1.7030          | 28 Cr 4           |              |                  |        | 530 A 30   |      |                 |             | 30Ch      |         | 5130  |
|   |        | 1.7033          | 34 Cr 4           | 32 C 4       | 34 Cr 4 (KB)     |        | 530 A 32   |      |                 | SCr 430 (H) | 35Ch      | G 51320 | 5132  |
|   |        | 1.7034          | 37 Cr 4           | 38 C 4       | 38 Cr 4          | 14 140 | 530 A 36   |      |                 | SCr 435 H   | 40Ch      |         | 5135  |
|   |        | 1.7035          | 41 Cr 4           | 42 C 4       | 41 Cr 4          |        | 530 M 40   |      |                 | SCr 440 (H) | 40Ch      | G 51400 | 5140  |
|   |        | 1.7045          | 42 Cr 4           | 42 C 4 TS    | 41 Cr 4          |        | 530 A 40   | 2245 |                 | SCr 440     | 40Ch      |         | 5140  |
|   |        | 1.7103          | 67 SiCr 5         |              |                  |        |            |      |                 |             |           |         |       |
|   |        | 1.7131          | 16 MnCr 5         | 16 MC 5      | 16 MnCr 5        | 14 220 | 527 M 17   | 2511 | F-1516 / F-1517 | SCR 415     | 18ChG     | G 51170 | 5115  |
|   |        | 1.7139          | 16 MnCrS 5        |              |                  |        |            |      | F-150D          |             |           |         |       |

|   | Indeks | Numer materialu | DIN                | AFNOR        | UNI                 | ČSN     | BS           | SIS        | UNE             | JIS                 | GOST       | UNS     | USA         |
|---|--------|-----------------|--------------------|--------------|---------------------|---------|--------------|------------|-----------------|---------------------|------------|---------|-------------|
| P | P.2.2  | 1.7147          | 20 MnCr 5          | 20 MC 5      | 20 MnCr 5           | 14 221  |              |            |                 | SMnC 420 (H)        | 18ChG      | G 51200 | 5120        |
|   |        | 1.7149          | 20 MnCrS 5         |              |                     |         |              |            | F-1551          |                     |            |         |             |
|   |        | 1.7176          | 55 Cr 3            | 55 C 3       | 55 Cr 3             |         | 527 A 60     | 2253       | F-1431          | SUP 9 (A)           | 50ChGA     | G 51550 | 5155        |
|   |        | 1.7218          | 25 CrMo 4          | 25 CD 4 S    | 25 CrMo 4 (KB)      | 15 130  | 1717 CDS 110 | 2225       |                 | SCM 420; SCM 430    | 30ChM      | G 41300 | 4130        |
|   |        | 1.7220          | 34 CrMo 4          | 35 CD 4      | 35 CrMo 4           | 15 131  | 708 A 37     | 2234       |                 | SCM 432; SCCrM 3    | AS38ChGM   | G 41350 | 4135; 4137  |
|   |        | 1.7223          | 41 CrMo 4          | 42 CD 4 TS   | 41 CrMo 4           |         | 708 M 40     | 2244       |                 | SCM 440             | 40 ChFA    | G 41420 | 4142; 4140  |
|   |        | 1.7225          | 42 CrMo 4          | 42 CD 4      | 42 CrMo 4           | 15 142  | 708 M 40     | 2244       |                 | SCM 440 (H)         |            | G 41400 | 4142; 4140  |
|   |        | 1.7228          | 50 CrMo 4          | 50 CR MO4    |                     |         | 708 A 47     |            |                 | SCM 445 (H)         | 50ChFA     | G 41470 | 4150        |
|   |        | 1.7323          | 20 MoCrS 4         | 20 CD 4 S    |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.7325          | 25 MoCr 4          | 25 CD 4      |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.7326          | 25 MoCrS 4         | 25 CD 4 S    |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.7361          | 32 CrMo 12         | 30 CD 12     | 32 CrMo 12          | 15 230  | 722 M 24     | 2240       | F-124A          |                     |            |         |             |
|   |        | 1.7707          | 30 CrMoV 9         |              |                     | 15 330  |              |            |                 |                     |            |         |             |
|   |        | 1.7709          | 21 CrMoV 5 7       |              |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.7725          | GS-30 CrMoV 6 4    |              |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.7735          | 14 CrMoV 6 9       | 15 CDV 6     |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.8159          | 50 CrV 4           | 50 CV 4      | 51 CrV 4            | 15 260  | 735 A 50     | 2230       | F-143 / F-1430  | SUP 10              | 50ChGFA    | G 61500 | 6150        |
|   |        | 1.8161          | 58 CrV 4           |              |                     | 15 261  |              |            |                 |                     |            |         |             |
|   |        | 1.8507          | 34 CrAlMo 5        | 30 CAD 6.12  | 34 CrAlMo 7         |         | 905 M 31     |            | F-1741          |                     |            | K 23545 | A 355 Cl. D |
|   |        | 1.8509          | 41 CrAlMo 7        | 40 CAD 6.12  | 41 CrAlMo 7         | 15 340  | 905 M 39     | 2940       | F-1740          | SACM 645            | 38ChMJuA   | K 24065 | A 355 Cl. A |
|   |        | 1.8515          | 31 CrMo 12         | 30 CD 12     | 31 CrMo 12          |         | 722 M 24     | 2240       | F-1712          |                     |            |         |             |
|   |        | 1.8519          | 31 CrMoV 9         |              |                     |         |              |            | F-1721          |                     |            |         |             |
|   |        | 1.8523          | 39 CrMoV 13 9      |              | 36 CrMoV 13 9       |         | 897 M 39     |            |                 |                     |            |         |             |
|   |        | 1.8550          | 34 CrAlNi 7        |              |                     |         |              |            |                 |                     |            | K 52440 |             |
|   |        | 1.0904          | 55 Si 7            | 55 S 7       | 55 Si 8             |         | 250 A 53     | 2085; 2090 |                 |                     | 55S2       |         | 9255        |
|   |        | 1.1157          | 40 Mn 4            | 35 M 5       |                     |         | 150 M 36     |            |                 |                     | 40G        | G 10390 | 1039        |
|   |        | 1.1165          | 30 Mn 5            | 35 M 5       |                     | 13 141  | 120 M 36     |            |                 | SMn 433 H; SCMn 2   | 30GSL      |         | 1330        |
|   |        | 1.1167          | 36 Mn 5            | 40 M 5       |                     | 42 2715 | 150 M 36     | 2120       |                 | SMn 438 (H); SCMn 3 | 35G2; 35GL | G 13350 | 1335        |
|   |        | 1.1170          | 28 Mn 6            | 20 M 5       | C 28 Mn             | 13 141  | 150 M 28     |            |                 | SCMn 1              | 30G        |         | 1330        |
|   | P.2.3  | 1.2744          | 57 NiCrMoV 7 7     |              |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.7131          | 16 MnCr 5          | 16 MC 5      | 16 MnCr 5           | 14 220  | 527 M 17     |            | F-1516 / F-1517 | SCR 415             | 18ChG      | G 51170 | 5115        |
|   |        | 1.7755          | GS-35 CrMoV 10 4   |              |                     |         |              |            |                 |                     |            |         |             |
|   | P.2.4  | 1.2714          | 56 NiCrMoV 7       |              |                     | 19 663  |              |            |                 |                     |            |         |             |
|   |        | 1.3505          | 100 Cr 6           | 100 C 6      | 100 Cr 6            | 14 100  | 534 A 99     | 2258       | F-131 / F-1310  | SUJ 2               | SchCh 15   | G 52986 | 52100       |
|   |        | 1.7225          | 42 CrMo 4          | 42 CD 4      | 42 CrMo 4           | 15 142  | 708 M 40     | 2244       |                 | SCM 440 (H)         |            | G 41400 | 4142; 4140  |
|   | P.3.1  | 1.2080          | X 210 Cr 12        | Z 200 C 12   | X 210 Cr 13 KU      | 19 436  | BD 3         |            |                 | SKD 1               | Ch12       | T 30403 | D 3         |
|   |        | 1.2201          | G-X 165 CrV 12     |              |                     | 19 572  |              |            |                 |                     |            |         |             |
|   |        | 1.2343          | X 38 CrMoV 5 1     | Z 38 CDV 5   | X 37 CrMoV 5 1 KU   | 19 552  | BH 11        |            | F-5317          | SKD 6               | 4Ch5MFS    | T 28811 | H 11        |
|   |        | 1.2363          | X 100 CrMoV 5 1    | Z 100 CDV 5  | X 100 CrMoV 5 1 KU  | 19 571  | BA 2         | 2260       | F-5227          | SKD 12              |            | T 30102 | A 2         |
|   |        | 1.2365          | X 32 CrMoV 3 3     | 32 DCV 28    | 30 CrMoV 12 27 KU   | 19 541  | BH 10        |            |                 | SKD 7               | 3Ch3M3F    | T 20810 | H 10        |
|   |        | 1.2367          | X 38 CrMoV 5 3     |              |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.2379          | X 155 CrVMo 12 1   | Z 160 CDV 12 | X 155 CrVMo 12 1 KU | 19 573  | BD 2         |            | F-5211          | SKD 11              |            | T 30402 | D 2         |
|   |        | 1.2436          | X 210 CrW 12       | Z 200 CW 12  | X 215 CrW 12 1 KU   | 19 437  |              | 2312       | F-5213          | SKD 2               |            |         |             |
|   |        | 1.2567          | X 30 WCrV 5 3      | Z 32 WCV 5   | X 30 WCrV 5 3 KU    | 19 720  |              |            |                 | SKD 4               |            |         |             |
|   |        | 1.2581          | X 30 WCrV 9 3      | Z 30 WCV 9   | X 30 WCrV 9 3 KU    | 19 721  | BH 21        |            |                 | SKD 5               | 3Ch2W8F    | T 20821 | H 21        |
|   |        | 1.2601          | X 165 CrMoV 12     |              | X 165 CrMoV 12 KU   | 19 572  |              | 2310       |                 |                     |            |         |             |
|   |        | 1.2606          | G-X 37 CrMoW 5 1   |              |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.2764          | X 19 NiCrMo 4      |              |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.2767          | X 45 NiCrMo 4      | Y 35 NCD 16  | 42 NiCrMo 15 7      | 19 655  |              |            |                 |                     |            |         |             |
|   |        | 1.2880          | G-X 165 CrCoMo 12  |              |                     |         |              |            |                 |                     |            |         |             |
|   |        | 1.2885          | X 32 CrMoCoV 3 3 3 | 30 DCKV 28   |                     |         |              |            |                 |                     |            |         |             |

|   | Indeks | Numer materialu | DIN                    | AFNOR                     | UNI                    | ČSN     | BS                      | SIS  | UNE    | JIS               | GOST     | UNS     | USA        |
|---|--------|-----------------|------------------------|---------------------------|------------------------|---------|-------------------------|------|--------|-------------------|----------|---------|------------|
| P | P.3.1  | 1.3302          | S 12-1-4               |                           |                        | 19 810  |                         |      |        |                   |          |         |            |
|   |        | 1.3318          | S 12-1-2               |                           |                        | 19 802  |                         |      |        |                   |          |         |            |
|   |        | 1.3333          | S 3-3-2                |                           | HS 3-3-2               | 19 820  |                         |      |        |                   |          |         |            |
|   |        | 1.3343          | S 6-5-2                | Z 85 WDCV<br>06-05-04-0   | HS 6-5-2               | 19 830  | BM 2                    | 2722 | F-5603 | SKH 9;<br>SKH 51  | R6AM5    | T 11302 | M 2        |
|   |        | 1.3346          | S 2-9-1                | Z 85 DCWV<br>08-04-02-0   | HS 1-8-1               |         | BM 1                    |      |        |                   | H41      | T 11301 | H 41; M 1  |
|   |        | 1.4943          | X 4 NiCrTi 25 15       | Z 6 NCTDV 25.15 B         |                        |         | HR 251; HR<br>52; HR 51 |      |        | SUH 660           |          |         |            |
|   |        | 1.5662          | G-X 8 Ni 9             |                           |                        |         |                         |      |        |                   |          |         |            |
|   |        | 1.5680          | 12 Ni 19               | Z 18 N 5                  |                        |         |                         |      |        |                   |          |         | 2515       |
|   | P.3.2  | 1.2080          | X 210 Cr 12            | Z 200 C 12                | X 210 Cr 13 KU         | 19 436  | BD 3                    |      |        | SKD 1             | Ch12     | T 30403 | D 3        |
|   |        | 1.2343          | X 38 CrMoV 5 1         | Z 38 CDV 5                | X 37 CrMoV<br>5 1 KU   | 19 552  | BH 11                   |      | F-5317 | SKD 6             | 4Ch5MFS  | T 28811 | H 11       |
|   |        | 1.2344          | X 40 CrMoV 5 1         | Z 40 CDV 5                | X 40 CrMo<br>5 1 1 KU  | 19 554  | BH 13                   | 2242 | F-5318 | SKD 61            | 4Ch5MF1S | T 20813 | H 13       |
|   |        | 1.2363          | X 100 CrMoV 5 1        | Z 100 CDV 5               | X 100 CrMoV<br>5 1 KU  | 19 571  | BA 2                    | 2260 | F-5227 | SKD 12            |          | T 30102 | A 2        |
|   |        | 1.2365          | X 32 CrMoV 3 3         | 32 DCV 28                 | 30 CrMoV<br>12 27 KU   | 19 541  | BH 10                   |      |        | SKD 7             | 3Ch3M3F  | T 20810 | H 10       |
|   |        | 1.2367          | X 38 CrMoV 5 3         |                           |                        |         |                         |      |        |                   |          |         |            |
|   |        | 1.2379          | X 155 CrVMo 12 1       | Z 160 CDV 12              | X 155<br>CrVMo 12 1 KU | 19 573  | BD 2                    |      | F-5211 | SKD 11            |          | T 30402 | D 2        |
|   |        | 1.2567          | X 30 WCrV 5 3          | Z 32 WCV 5                | X 30 WCrV<br>5 3 KU    | 19 720  |                         |      |        | SKD 4             |          |         |            |
|   |        | 1.2581          | X 30 WCrV 9 3          | Z 30 WCV 9                | X 30 WCrV<br>9 3 KU    | 19 721  | BH 21                   |      |        | SKD 5             | 3Ch2W8F  | T 20821 | H 21       |
|   |        | 1.2606          | G-X 37 CrMoW 5 1       |                           |                        |         |                         |      |        |                   |          |         |            |
|   |        | 1.2709          | X 2 NiCoMoTi<br>18 9 5 |                           |                        |         |                         |      |        |                   |          |         |            |
|   |        | 1.2764          | X 19 NiCrMo 4          |                           |                        |         |                         |      |        |                   |          |         |            |
|   |        | 1.2767          | X 45 NiCrMo 4          | Y 35 NCD 16               | 42 NiCrMo 15 7         | 19 655  |                         |      |        |                   |          |         |            |
|   |        | 1.2885          | X 32 CrMoCoV<br>3 3 3  | 30 DCKV 28                |                        |         |                         |      |        |                   |          |         |            |
|   |        | 1.3207          | S 10-4-3-10            | Z 130 WKCDV<br>10-10-04   | HS 10-4-3-10           | 19 861  | BT 42                   |      | F-5553 | SKH 57            |          |         |            |
|   |        | 1.3243          | S 6-5-2-5              | Z 85 WDKCV<br>06-05-05    | HS 6-5-2-5             | 19 852  |                         | 2723 | F-5613 | SKH 55            | R6M5K5   |         |            |
|   |        | 1.3246          | S 7-4-2-5              | Z 110 WKCDV<br>07-05-04   | HS 7-4-2-5             | 19 851  |                         |      |        |                   |          | T 11341 | M 41       |
|   |        | 1.3247          | S 2-10-1-8             | Z 110 DKCWW<br>09-08-04   | HS 2-9-1-8             |         | BM 42                   |      |        | SKH 51            |          | T 11342 | M 42       |
|   |        | 1.3249          | S 2-9-2-8              |                           |                        |         | BM 34                   |      |        |                   |          | T 11333 | M 33; M 34 |
|   |        | 1.3255          | S 18-1-2-5             | Z 80 WKCVC 18-<br>05-04-0 | HS 18-1-1-5            | 19 855  | BT 4                    |      |        | SKH 3             |          | T 12004 | T 4        |
|   |        | 1.3265          | S 18-1-2-10            |                           | HS 18-0-1-10           | 19 860  | BT 5                    |      |        | SKH 4 A           |          | T 12005 | T 5        |
|   |        | 1.3344          | S 6-5-3                | Z 120 WDCV<br>06-05-04    | HS 6-5-3               |         | BM 4                    |      |        | SKH 52;<br>SKH 53 |          | T 11323 | M 3 Cl. 2  |
|   |        | 1.3348          | S 2-9-2                | Z 100 DCWV<br>09-04-02    | HS 2-9-2               |         |                         | 2782 |        |                   |          | T 11307 | M 7        |
|   |        | 1.3401          | G-X 120 Mn 12          | Z 120 M 12                | XG 120 Mn 12           |         | Z 120 M 12              |      |        | SCMnH 1           | 110G13L  |         | A 128 (A)  |
|   |        | 1.5860          | 14 NiCr 18             |                           |                        | 16 523  |                         |      |        |                   |          |         |            |
|   |        | 1.5864          | 35 NiCr 18             |                           |                        | 16 640  |                         |      | F-122  |                   |          |         |            |
|   | P.3.3  | 1.6359          | X 2 NiCrMo 18 8 5      | Maraging 250              |                        |         |                         |      |        |                   |          | K 92890 |            |
|   | P.4.1  | 1.2083          | X 42 Cr 13             | Z 40 C 14                 | X 41 Cr 13 KU          | 19 435  |                         |      | F-5263 | SUS 420 J 2       |          |         |            |
|   |        | 1.2316          | X 36 CrMo 17           | Z 38 CD 17                | X 38 CrMo 16<br>1 KU   |         |                         |      |        |                   |          |         |            |
|   |        | 1.3543          | X 102 CrMo 17          | Z 100 CD 17               |                        |         |                         |      |        |                   |          |         |            |
|   |        | 1.4001          | G-X 7 Cr 13            | Z 8 C 13 FF               |                        | 17 020  |                         |      | F-8401 |                   |          |         |            |
|   |        | 1.4002          | X 6 CrAl 13            | Z 6 CA 13                 | X 6 CrAl 13            |         | 405 S 17                | 2302 | F-3111 | SUS 405           |          | S 40500 | 405        |
|   |        | 1.4005          | X 12 CrS 13            | Z 12 CF 13                | X 12 CrS 13            |         | 416 S 21                | 2380 |        | SUS 416           |          | S 41600 | 416        |
|   |        | 1.4006          | X 10 Cr 13             | Z 12 C 13                 | X 12 Cr 13             | 17 021  | 410 S 21                | 2302 | F-3401 | SUS 410           | 12Ch13   | S 41000 | 410; CA-15 |
|   |        | 1.4008          | G-X 8 CrNi 13          | Z 12 CN 13 M              |                        | 42 2904 |                         |      |        |                   |          |         |            |
|   |        | 1.4016          | X 6 Cr 17              | Z 8 C 17                  | X 8 Cr 17              | 17 040  | 430 S 15                | 2320 | F-3113 | SUS 430           | 12Ch17   | S 43000 | 430        |
|   |        | 1.4021          | X 20 Cr 13             | Z 20 C 13                 | X 20 Cr 13             | 17 022  | 420 S 37                | 2303 | F-3402 | SUS 420 J 1       | 20Ch13   | S 42000 | 420        |
|   |        | 1.4024          | X 15 Cr 13             | Z 13 C 13                 |                        | 17 021  | 420 S 29                |      |        | SUS 410 J 1       |          |         |            |
|   |        | 1.4027          | G-X 20 Cr 14           | Z 20 C 13 M               |                        | 42 2906 | 420 C 29                |      |        | SCS 2             | 20Ch13L  |         |            |
|   |        | 1.4028          | X 30 Cr 13             | Z 30 C 13                 | X 30 Cr 13             | 17 023  | 420 S 45                | 2304 |        | SUS 420 J 2       | 30Ch13   |         |            |
|   |        | 1.4031          | X 38 Cr 13             | Z 40 C 14                 | X 40 Cr 14             | 17 024  |                         | 2304 | F-3404 | SUS 420 J 2       | 40Ch13   |         |            |
|   |        | 1.4034          | X 46 Cr 13             | Z 40 C 14                 | X 40 Cr 14             | 17 029  | 420 S 45                |      | F-3405 |                   | 40Ch13   |         |            |
|   |        | 1.4085          | G-X 70 Cr 29           |                           |                        |         |                         |      |        |                   |          |         |            |

|   | Indeks | Numer materialu | DIN                 | AFNOR                    | UNI               | ČSN     | BS       | SIS  | UNE    | JIS             | GOST     | UNS     | USA          |
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| P | P.4.1  | 1.4104          | X 12 CrMoS 17       | Z 10 CF 17               | X 10 CrS 17       | 17 140  |          | 2383 | F-3403 | SUS 430 F       |          | S 43020 | 430 F        |
|   |        | 1.4105          | X 4 CrMoS 18        |                          |                   |         |          |      | F-3114 |                 |          |         |              |
|   |        | 1.4106          | X 2 CrMoSiS 18 2 1  |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4107          | G-X 8 CrNi 12       |                          |                   | 42 2904 |          |      |        |                 |          |         |              |
|   |        | 1.4109          | X 65 CrMo 14        |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4112          | X 90 CrMoV 18       |                          |                   |         |          |      |        |                 |          | S 44003 |              |
|   |        | 1.4113          | X 6 CrMo 17         | Z 8 CD 17.01             | X 8 CrMo 17       |         | 434 S 17 | 2325 | F-3116 | SUS 434         |          | S 43400 | 434          |
|   |        | 1.4116          | X 45 CrMoV 15       |                          |                   |         |          |      | F-3422 |                 |          |         |              |
|   |        | 1.4122          | G-X 35 CrMo 17      |                          |                   | 17 137  |          |      |        |                 |          |         |              |
|   |        | 1.4125          | X 105 CrMo 17       | Z 100 CD 17              | X 105 CrMo 17     |         |          |      |        | SUS 440 C       |          | S 44004 | 440 C        |
|   |        | 1.4136          | G-X 70 CrMo 29 2    |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4405          | G-X 5 CrNiMo 16 5   |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4407          | G-X 5 CrNiMo 13 4   |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4510          | X 6 CrTi 17         | Z 8 CT 17                | X 6 CrTi 17       |         |          |      |        | SUS 430 LX      | 08Ch17T  | S 43036 | XM 8; 430 Ti |
|   |        | 1.4511          | X 8 CrNb 17         | Z 8 CNb 17               | X 6 CrNb 17       |         |          |      | F-3122 | SUS 430 LX      |          |         |              |
|   |        | 1.4512          | X 5 CrTi 12         | Z 6 CT 12                | X 6 CrTi 12       |         | 409 S 19 |      | F-3121 | SUH 409         |          | S 40900 | 409          |
|   |        | 1.4528          | X 105 CrCoMo 18 2   |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4540          | G-X 4 CrNiCuNb 16 4 |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4724          | X 10 CrAl 13        | Z 10 C 13                | X 10 CrAl 12      | 17 125  | 403 S 17 |      | F-3152 |                 | 10Ch13SJ |         |              |
|   |        | 1.4742          | X 10 CrAl 18        | Z 10 CAS 18              | X 8 Cr 17         |         | 430 S 15 |      | F-3153 | SUS 430; SUH21  |          |         | 430          |
|   |        | 1.4761          | G-X 120 CrSi 23     |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4762          | X 10 CrAl 24        | Z 10 CAS 24              | X 16 Cr 26        | 17 153  |          |      | F-3154 |                 |          | S 44600 | 446          |
|   |        | 1.4931          | G-X 22 CrMoV 12 1   |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4962          | X 12 CrNiWTi 16 3   |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.6982          | G-X 3 CrNi 13 4     |                          |                   |         |          |      |        |                 |          |         |              |
|   | P.4.2  | 1.2316          | X 36 CrMo 17        | Z 38 CD 17               | X 38 CrMo 16 1 KU |         |          |      |        |                 |          |         |              |
|   |        | 1.4000          | X 6 Cr 13           | Z 6 C 13                 | X 6 Cr 13         | 17 020  | 403 S 17 | 2301 |        | SUS 403         | 08Ch13   | S 40300 | 403          |
|   |        | 1.4021          | X 20 Cr 13          | Z 20 C 13                | X 20 Cr 13        | 17 022  | 420 S 37 | 2303 | F-3402 | SUS 420 J 1     | 20Ch13   | S 42000 | 420          |
|   |        | 1.4024          | X 15 Cr 13          | Z 13 C 13                |                   | 17 021  | 420 S 29 |      |        | SUS 410 J 1     |          |         |              |
|   |        | 1.4028          | X 30 Cr 13          | Z 30 C 13                | X 30 Cr 13        | 17 023  | 420 S 45 | 2304 |        | SUS 420 J 2     | 30Ch13   |         |              |
|   |        | 1.4031          | X 38 Cr 13          | Z 40 C 14                | X 40 Cr 14        | 17 024  |          | 2304 | F-3404 | SUS 420 J 2     | 40Ch13   |         |              |
|   |        | 1.4034          | X 46 Cr 13          | Z 40 C 14                | X 40 Cr 14        | 17 029  | 420 S 45 |      | F-3405 |                 | 40Ch13   |         |              |
|   |        | 1.4057          | X 20 CrNi 17 2      | Z 15 CN 16.02            | X 16 CrNi 16      | 17 145  | 431 S 29 | 2321 | F-3427 | SUS 431         | 20Ch17N2 | S 43100 | 431          |
|   |        | 1.4059          | G-X 22 CrNi 17      |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4086          | G-X 120 Cr 29       |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4108          | X 100 CrMo 13       |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4112          | X 90 CrMoV 18       |                          |                   |         |          |      |        |                 |          | S 44003 |              |
|   |        | 1.4116          | X 45 CrMoV 15       |                          |                   |         |          |      | F-3422 |                 |          |         |              |
|   |        | 1.4120          | G-X 20 CrMo 13      |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4122          | G-X 35 CrMo 17      |                          |                   | 17 137  |          |      |        |                 |          |         |              |
|   |        | 1.4138          | G-X 120 CrMo 29 2   |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4313          | X 5 CrNi 13 4       | Z 5 CN 13.4              | X 6 CrNi 13 04    |         | 425 C 11 | 2385 |        | SCS 5           |          |         | CA 6-NM      |
|   |        | 1.4340          | G-X 40 CrNi 27 4    |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4464          | G-X 40 CrNiMo 27 5  |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4542          | X 7 CrNiCu 16 4 4   | Z7 CNU 17 04 04 (17-4PH) |                   |         |          |      |        | SCS 24; SUS 630 |          | S 17400 | 630          |
|   |        | 1.4545          | X 5 CrNiCu 15-5     | E-Z5 CNU 15 05 (15-5PH)  |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4710          | G-X 30 CrSi 6       |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4718          | X 45 CrSi 9 3       | Z 45 CS 9                | X 45 CrSi 8       | 17 115  | 401 S 45 |      | F-3220 | SUH 1           | 40Ch9S2  | S 65007 | HN 3         |
|   |        | 1.4729          | G-X 40 CrSi 13      |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4740          | G-X 40 CrSi 17      |                          |                   |         |          |      |        |                 |          |         |              |
|   |        | 1.4743          | G-X 160 CrSi 18     |                          |                   |         |          |      |        |                 |          |         |              |

|   | Indeks | Numer materialu | DIN                     | AFNOR                              | UNI                   | ČSN     | BS        | SIS        | UNE                | JIS                  | GOST            | UNS     | USA        |
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| P | P.4.2  | 1.4745          | G-X 40 CrSi 23          |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4747          | X 80 CrNiSi 20          | Z 80 CSN 20.02                     | X 80 CrSiNi 20        |         | 443 S 65  |            |                    | SUH 4                |                 | S 65006 | HNV 6      |
|   |        | 1.4776          | G-X 40 CrSi 29          |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4823          | G-X 40 CrNiSi 27 4      |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4923          | X 22 CrMoV 12 1         |                                    |                       | 17 134  | 762       |            |                    |                      |                 |         |            |
|   |        | 1.4928          | G-X 12<br>CrNiMoCoVN 12 |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4935          | X 20 CrMoWV 12 1        |                                    |                       |         |           |            |                    |                      |                 | S 42200 |            |
| M | M.1.1  | 1.3941          | G-X 4 CrNi 18 13        |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.3944          | G-X 5 CrNi 18 11        |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.3952          | G-X 4 CrNiMoN<br>18 14  |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.3953          | G-X 2 CrNiMo<br>18 15   |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.3955          | G-X 12 CrNi 18 11       |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.3959          | G-X 10 CrNiNb<br>16 13  |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4301          | X 5 CrNi 18 10          | Z 6 CN 18-09                       | X 5 CrNi 18 10        | 17 240  | 304 S 15  | 2332; 2333 | F-3504             | SUS 304              | 08Ch18N10       | S 30400 | 304; 304 H |
|   |        | 1.4303          | X 5 CrNi 18 12          | Z 8 CN 18.12                       | X 8 CrNi 19 10        |         | 305 S 19  |            |                    | SUS 305              | 06Ch18N11       | S 30500 | 308; 305   |
|   |        | 1.4305          | X 10 CrNiS 18 9         | Z 8 CNF 18-03                      | X 10 CrNi 18 09       | 17 243  | 303 S 21  | 2346       |                    | SUS 303              |                 | S 30300 | 303        |
|   |        | 1.4306          | X 2 CrNi 19 11          | Z 3 CN 18-10                       | X 2 CrNi 18 11        | 17 249  | 304 S 12  | 2352; 2333 | F-3503             | SCS 19               | 03Ch18N11       | S 30403 | 304 L      |
|   |        | 1.4308          | G-X 6 CrNi 18 9         | Z 6 CN 18.10 M                     |                       | 42 2930 | 304 C 15  | 2333       | F-8411             | SCS 13               | 07Ch18N9L       |         | CF-8       |
|   |        | 1.4311          | X 2 CrNiN 18 10         | Z 2 CN 18 .10                      | X 2 CrNiN 18 11       | 17 249  | 304 S 62  | 2371       |                    | SUS 304 LN           |                 | S 30453 | 304 LN     |
|   |        | 1.4312          | G-X 10 CrNi 18 8        |                                    |                       | 42 2931 |           |            |                    |                      |                 |         |            |
|   |        | 1.4401          | X 5 CrNiMo 18 10        | Z 6 CND 17 12 02                   | X 5 CrNiMo<br>17 12   | 17 346  | 316 S 16  | 2347       | F-3543             | SUS 316              |                 | S 31600 | 316        |
|   |        | 1.4404          | X 2 CrNiMo 17 13 2      | Z 3 CND 17 12 02                   | X 2 CrNiMo<br>17 12   | 17 349  | 316 S 11  | 2348       | F-3533             | SUS 316 L            |                 | S 31603 | 316 L      |
|   |        | 1.4406          | X 2 CrNiMoN<br>17 12 2  | Z 2 CND 17.12 Az                   | X 2 CrNiMoN<br>17 12  |         | 316 S 61  |            |                    | SUS 316 LN           |                 | S 31653 | 316 LN     |
|   |        | 1.4408          | G-X 6 CrNiMo<br>18 10   |                                    |                       | 42 2940 |           |            | F-8414             |                      |                 |         |            |
|   |        | 1.4413          | G-X 4 CrNiMo 13-4       |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4429          | X 2 CrNiMoN<br>17 13 3  | Z 3 CND 17 11<br>03 Az             | X 2 CrNiMoN<br>17 13  |         | 316 S 62  | 2375       |                    | SUS 316 LN           |                 | S 31653 | 316 LN     |
|   |        | 1.4435          | X 2 CrNiMo 18 14 3      | Z 2 CND 17.13                      | X 2 CrNiMo<br>17 13   |         | 316 S 12  | 2353       |                    | SCS 16;<br>SUS 316 L | 03Ch17N<br>14M2 | S 31603 | 316 L      |
|   |        | 1.4436          | X 5 CrNiMo 17 13 3      | Z 6 CND 17.12                      | X 5 CrNiMo<br>17 13   |         | 316 S 16  | 2343       |                    | SUS 316              |                 | S 31600 | 316        |
|   |        | 1.4437          | G-X 6 CrNiMo<br>18 12   |                                    |                       | 42 2940 |           |            |                    |                      |                 |         |            |
|   |        | 1.4438          | X 2 CrNiMo 18 16 4      | Z 2 CND 19.15                      | X 2 CrNiMo<br>18 15   |         | 317 S 12  | 2367       |                    | SUS 317 L            |                 | S 31703 | 317 L      |
|   |        | 1.4439          | G-X 3 CrNiMo<br>17 13 5 |                                    |                       |         |           |            | F-3544             |                      |                 |         |            |
|   |        | 1.4446          | G-X 2 CrNiMo<br>17 13 4 |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4448          | G-X 6 CrNiMo<br>17 13   |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4449          | X 3 CrNiMo 18 12 3      |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4507          | X 2 CrNiMoCuN<br>25 6 3 | Z 3 CNDU 25 07 Az<br>(Uranus 52 N) |                       |         |           |            |                    |                      |                 | S 32750 | F61        |
|   |        | 1.4541          | X 6 CrNiTi 18 10        | Z 6 CNT 18.10                      | X 6 CrNiTi 18 11      | 17 248  | 321 S 12  | 2337       |                    | SUS 321              | 12Ch18N<br>10T  | S 32100 | 321        |
|   |        | 1.4546          | X 5 CrNiNb 18 10        |                                    | X 6 CrNiNb<br>18 11   |         | 347 S 18  |            |                    |                      |                 | S 34800 | 348        |
|   |        | 1.4550          | X 6 CrNiNb 18 10        | Z10 CNNb 18-10                     | X 6 CrNiNb<br>18 11   | 17 245  | 347 S 17  | 2338       | F-3552 /<br>F-3524 | SUS 347              | 08Ch18N<br>12B  | S 34700 | 347        |
|   |        | 1.4552          | G-X 5 CrNiNb 18 9       |                                    |                       | 42 2933 |           |            | F-8413             |                      |                 |         |            |
|   |        | 1.4571          | X 6 CrNiMoTi<br>17 12 2 | Z 6 CNT 17.12                      | X 6 CrNiMoTi<br>17 12 | 17 348  | 320 S 31  | 2350       | F-3535             |                      | 10Ch17N13M2T    | S 31635 | 316 Ti     |
|   |        | 1.4573          | X 10 CrNiMoTi<br>18 12  |                                    | X 6 CrNiMoTi<br>17 13 |         | 320 S 33  |            |                    |                      | 10Ch17N13M3T    | S 31635 | 316 Ti     |
|   |        | 1.4580          | X 6 CrNiMoNb<br>17 12 2 | Z 6 CNDNb 17.12                    | X 6 CrNiMoNb<br>17 12 |         | 318 S 17  |            | F-3536             |                      | 08Ch16N13M2B    | S 31640 | 316 Cb     |
|   |        | 1.4581          | G-X 5 CrNiMoNb<br>18 10 | Z 4 CNDNb 18.12 M                  | GX 6 CrMoNb<br>20 11  | 42 2941 | 318 C 17  |            |                    | SCS 22               |                 |         |            |
|   |        | 1.4583          | X 10 CrNiMoNb<br>18 12  |                                    | X 6 CrNiMoNb<br>17 13 |         |           |            |                    |                      |                 |         | 318        |
|   |        | 1.4821          | X 15 CrNiSi 25-4        | Z20 CNS 25 04                      |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4825          | G-X 25 CrNiSi 18 9      |                                    |                       | 42 2932 |           |            |                    |                      |                 |         |            |
|   |        | 1.4826          | G-X 40 CrNiSi 22 9      |                                    |                       | 42 2934 |           |            |                    |                      |                 |         |            |
|   |        | 1.4828          | X 15 CrNiSi 20 12       | Z 15 CNS 20.12                     |                       | 17 251  | 309 S 24  |            | F-3312             | SUH 309              | 20Ch20N<br>14S2 | S 30900 | 309        |
|   |        | 1.4832          | G-X 25 CrNiSi<br>20 14  |                                    |                       |         |           |            |                    |                      |                 |         |            |
|   |        | 1.4876          | X 10 NiCrAlTi 32 20     | Z10 NCAT 32-21<br>(Incoloy 800)    |                       | 17 358  | NA 15 (H) |            | F-3314             | NCF 800              |                 |         | B 163      |
|   |        | 1.4878          | X 12 CrNiTi 18 9        | Z 6 CNT 18.12 (B)                  | X 6 CrNiTi 18 11      | 17 246  | 321 S 20  | 2337       |                    | SUS 321              | 12Ch18N<br>10T  |         | 321        |

|   | Indeks | Numer materialu | DIN                    | AFNOR                            | UNI               | ČSN     | BS              | SIS      | UNE       | JIS            | GOST         | UNS     | USA           |
|---|--------|-----------------|------------------------|----------------------------------|-------------------|---------|-----------------|----------|-----------|----------------|--------------|---------|---------------|
| M | M.1.1  | 1.4968          | G-X 7 CrNiNb 16 13     |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4988          | G-X 8 CrNiMoVNb 16 1   |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.6901          | G-X 8 CrNi 18 10       |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.6902          | G-X 6 CrNi 18 10       |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.6905          | G-X 5 CrNiNb 18 10     |                                  |                   |         |                 |          |           |                |              |         |               |
|   | M.2.1  | 1.3964          | G-X 4 CrNiMnMoN 19 1   |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4310          | X 12 CrNi 17 7         | Z 12 CN 17.07                    | X 12 CrNi 17 07   |         | 301 S 21        |          |           | SUS 301        |              | S 30100 | 301           |
|   |        | 1.4465          | G-X 2 CrNiMoN 25 25    |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4536          | G-X 2 NiCrMoCuN 25 2   |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4539          | X 1 NiCrMoCu 25 20 5   | Z2 NCDU 25 20 (Uranus B6)        |                   |         |                 |          |           |                |              | N 08904 | 904L          |
|   |        | 1.4547          | X 1 CrNiMoCuN 20 18 17 | Z1 CNDU 20 18 06 Az (254 SMO)    |                   |         |                 |          |           |                |              |         | F44           |
|   |        | 1.4568          | X 7 CrNiAl 17 7        |                                  |                   |         |                 |          |           |                |              |         | 17-7 PH       |
|   |        | 1.4837          | G-X 40 CrNiSi 25 12    |                                  |                   | 42 2936 |                 |          |           |                |              |         |               |
|   |        | 1.4840          | G-X 15 CrNi 25 20      |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4841          | X 15 CrNiSi 25 20      | Z 15 CNS 25.20                   | X 16 CrNiSi 25 20 | 17 255  |                 |          | F-3310    | SUH 310        | 20Ch25N 20S2 | S 31000 | 314; 310      |
|   |        | 1.4845          | X 12 CrNi 25 21        | Z 12 CN 25.20                    | X 6 CrNi 26 20    | 17 255  | 310 S24         | 2361     |           | SUH 310;       |              | S 31008 | 310 S         |
|   |        | 1.4848          | G-X 40 CrNiSi 25 20    |                                  | GX 40 CrNi 26 20  | 42 2952 |                 |          |           |                |              |         |               |
|   |        | 1.4849          | G-X 40 NiCrSiNb 38 1   |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4852          | G-X 40 NiCrNb 35 25    |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4855          | G-X 30 CrNiSiNb 24 2   |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4857          | G-X 40 NiCrSi 35 25    |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4864          | X 12 NiCrSi 36 16      | Z 12 NCS 37.18                   |                   | 17 253  | NA 17           |          | F-3313    | SUH 330        |              | N 08330 | 330           |
|   |        | 1.4865          | G-X 40 NiCrSi 38 18    |                                  | GX 50 NiCr 39 19  |         | 330 C 40        |          |           | SCH 15; SCH 16 |              |         |               |
|   |        | 1.4871          | X 53 CrMnNiN 21 9      | Z 52 CMN 21.09                   | X 53 CrMnNiN 21 9 |         | 349 S 54        |          | F-3217    | SUH 35; SUH 36 | 55Ch20G9AN4  | S 63008 | EV 8          |
|   |        | 1.4873          | X 45 CrNiW 18 9        | Z 35 CNWS 20.09                  | X 45 CrNiW 18 9   |         | 331 S 40        |          |           | SUH 31         |              |         |               |
|   | M.3.1  | 1.4339          | G-X 32 CrNi 28 10      |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4347          | G-X 8 CrNi 26 7        |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4410          | X 2 CrNiMoN 25 7 4     | Z2 CND 25 07 04 Az               |                   |         |                 |          | F-3552    |                |              |         | F53           |
|   |        | 1.4460          | X 8 CrNiMo 27 5        | Z5 CND 25 05 AZ                  |                   |         |                 | 2324     |           | SUS 329 J 1    |              | S 32900 | 329 LN        |
|   |        | 1.4462          | X 2 CrNiMoN 22 5 3     | Z2 CND 22 05 03 AZ (Uranus 45 N) |                   | 17 381  |                 |          | F-3308    |                |              | S 31803 | 329 A (F51)   |
|   |        | 1.4463          | G-X 6 CrNiMo 24 8 2    |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4501          | X 2 CrNiMoCuWN 25 7 4  | Z2 CNDUW 25 07 04 Az (Zeron 100) |                   |         |                 |          |           |                |              | S 32760 | F55           |
|   |        | 1.4815          | G-X 8 CrNi 19 10       |                                  |                   |         |                 |          |           |                |              |         |               |
|   |        | 1.4822          | G-X 40 CrNi 24 5       |                                  |                   |         |                 |          |           |                |              |         |               |
| K | K.1.1  | 0.6010          | GG-10                  | Ft 10 D                          | G 10              | 42 2410 |                 | 01 10-00 |           | FC 10          | Sc 10        |         | A48-20 B      |
|   |        | 0.6015          | GG-15                  | Ft 15 D                          | G 15              | 42 2415 | Grade 150       | 01 15-00 | FG-15     | FC 15          | Sc 15        |         | A48-25 B      |
|   |        | 0.6020          | GG-20                  | Ft 20 D                          | G 20              | 42 2420 | Grade 220       | 01 20-00 | FG-20     | FC 20          | Sc 20        |         | A48-30 B      |
|   |        | 0.6025          | GG-25                  | Ft 25 D                          | G 25              | 42 2425 | Grade 260       | 01 25-00 | FG-25     | FC 25          | Sc 25        |         | A48-40 B      |
|   | K.1.2  | 0.6030          | GG-30                  | Ft 30 D                          | G 30              | 42 2430 | Grade 300       | 01 30-00 | FG-30     | FC 30          | Sc 30        |         | A48-45 B      |
|   |        | 0.6035          | GG-35                  | Ft 35 D                          | G 35              | 42 2435 | Grade 350       | 01 35-00 | FG-35     | FC 35          | Sc 35        |         | A48-50 B      |
|   |        | 0.6040          | GG-40                  | Ft 40 D                          |                   | 42 2440 | Grade 400       | 01 40-00 |           |                | Sc 40        |         | A48-60 B      |
|   |        | 0.6652          | GGL-NiMn 13 7          | L- NM 13 7                       |                   |         | L-NiMn 13 7     |          |           |                |              |         |               |
|   |        | 0.6655          | GGL-NiCuCr 15 6 2      | L-NUC 15 6 2                     |                   |         | L-NiCuCr 15 6 2 |          |           |                |              |         | A 436 Type 1  |
|   |        | 0.6656          | GGL-NiCuCr 15 6 3      | L-NUC 15 6 3                     |                   |         | L-NiCuCr 15 6 3 |          |           |                |              |         | A 436 Type 1b |
|   |        | 0.6660          | GGL-NiCr 20 2          | L-NC 20 2                        |                   |         | L-NiCr 20 2     | 05 23-00 |           |                |              |         | A 436 Type 2  |
|   |        | 0.6661          | GGL-NiCr 20 3          | L-NC 20 3                        |                   |         | L-NiCr 20 3     |          |           |                |              |         | A 436 Type 2b |
|   |        | 0.6667          | GGL-NiSiCr 20 5 3      | L-NSC 20 5 3                     |                   |         | L-NiSiCr 20 5 3 |          |           |                |              |         |               |
|   |        | 0.6676          | GGL-NiCr 30 3          | L-NC 30 3                        |                   |         | L-NiCr 30 3     |          |           |                |              |         | A 436 Type 3  |
|   |        | 0.6680          | GGL-NiSiCr 30 5 5      | L-NSC 30 5 5                     |                   |         | L-NiSiCr 30 5 5 |          |           |                |              |         | A 436 Type 4  |
|   | K.2.1  | 0.7033          | GGG-35.3               |                                  |                   | 42 2303 |                 |          |           |                |              |         |               |
|   |        | 0.7040          | GGG-40                 | FGS 400-12                       | GS 400-12         | 42 2304 | SNG 420/12      | 0717-02  | FGE 38-17 | FCD 40         | VC 42-12     |         | 60 40 18      |

|   | Indeks | Numer materialu | DIN               | AFNOR        | UNI       | ČSN     | BS              | SIS     | UNE      | JIS    | GOST     | UNS | USA             |
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| K | K.2.1  | 0.7043          | GGG-40.3          | FGS 370-17   | GSO 42/17 | 42 2314 | SNG 370/17      | 0717-15 |          |        | VC 42-12 |     |                 |
|   |        | 0.7050          | GGG-50            | FGS 500-7    | GS 500/7  | 42 2305 | SNG 500/7       | 0727-02 | FGE 50-7 | FCD 50 | VC 50-2  |     | 65-45-12        |
|   |        | 0.7060          | GGG-60            | FGS 600-3    | GS 600/3  | 42 2306 | SNG 600/3       | 0732-03 |          | FCD 60 | VC 60-2  |     | 80-55-06        |
|   | K.2.2  | 0.7070          | GGG-70            | FGS 700-2    | GS 700-2  | 42 2307 | SNG 700/2       | 0737-01 | FGS 70-2 | FCD 70 | VC 70-2  |     | 100-70-03       |
|   |        | 0.7080          | GGG-80            | FGS 800-2    | GS 800-2  | 42 2308 | SNG 800/2       |         |          |        | VC 80-2  |     | 120-90-02       |
|   |        | 0.7652          | GGG-NiMn 13 7     | S-NM 13 7    |           |         | S-NiMn 13 7     |         |          |        |          |     |                 |
|   |        | 0.7660          | GGG-NiCr 20 2     | S-NC 20 2    |           |         | S-NiCr 20 2     |         |          |        |          |     | A 439 Type D-2  |
|   |        | 0.7661          | GGG-NiCr 20 3     | S-NC 20 3    |           |         | S-NiCr 20 3     |         |          |        |          |     | A 439 Type D-2B |
|   |        | 0.7665          | GGG-NiSiCr 20 5 2 | S-NSC 20 5 2 |           |         | S-NiSiCr 20 5 2 |         |          |        |          |     |                 |
|   |        | 0.7670          | GGG-Ni 22         | S-N 22       |           |         | S-Ni 22         |         |          |        |          |     | A 439 Type D-2C |
|   |        | 0.7673          | GGG-NiMn 23 4     | S-NM 23 4    |           |         | S-NiMn 23 4     |         |          |        |          |     | A 439 Type D-2M |
|   |        | 0.7676          | GGG-NiCr 30 3     | S-NC 30 3    |           |         | S-NiCr 30 3     |         |          |        |          |     | A 439 Type D-3  |
|   |        | 0.7677          | GGG-NiCr 30 1     | S-NC 30 1    |           |         | S-NiCr 30 1     |         |          |        |          |     | A 439 Type D-3A |
|   |        | 0.7680          | GGG-NiSiCr 30 5 5 | S-NSC 30 5 5 |           |         | S-NiSiCr 30 5 5 |         |          |        |          |     | A 439 Type D-4  |
|   |        | 0.7683          | GGG-Ni 35         | S-N 35       |           |         | S-Ni 35         |         |          |        |          |     | A 439 Type D-5  |
|   |        | 0.7685          | GGG-NiCr 35 3     | S-NC 35 3    |           |         | S-NiCr 35 3     |         |          |        |          |     | A 439 Type D-5B |
|   |        | 0.8065          | GTW-65            |              |           |         |                 |         |          |        |          |     |                 |
|   | K.3.1  | 0.8035          | GTW-35-04         |              |           | 42 2536 |                 |         | GTW 35   |        |          |     |                 |
|   |        | 0.8040          | GTW-40-05         |              |           | 42 2540 |                 |         |          |        |          |     |                 |
|   |        | 0.8045          | GTW-45-07         |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 0.8055          | GTW-55            |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 0.8135          | GTS-35-10         | MN 35-10     |           | 42 2533 | B 340/12        |         | GTS 35   |        |          |     |                 |
|   |        | 0.8145          | GTS-45-06         |              |           | 42 2545 | P 440/7         |         | GTS 45   |        |          |     |                 |
|   |        | 0.8155          | GTS-55-04         | MP 50-5      |           | 42 2555 | P 510/4         |         | GTS 55   |        |          |     |                 |
|   |        | 0.8165          | GTS-65-02         | MP 60-3      |           |         | P 570/3         |         | GTS 65   |        |          |     |                 |
|   | K.3.2  | 0.8170          | GTS-70-02         | IP 70-2      |           |         | P 690/2         |         | GTS 70   |        |          |     |                 |
| N | N.1.1  | 3.3307          | Al99.85Mg0.5      |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3308          | Al99.9Mg0.5       |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3315          | AlMg1             | 5005 (AlMg1) |           |         |                 |         | L-3350   |        |          |     |                 |
|   |        | 3.3316          | AlMg1.5           |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3317          | Al99.85Mg1        |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3318          | Al99.9Mg1         |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3326          | AlMg1.8           |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3523          | AlMg2.5           |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3525          | AlMg2Mn0.3        |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3527          | AlMg2Mn0.8        |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3535          | AlMg3             | 5754         |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3537          | AlMg2.7Mn         |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3555          | AlMg5             | 5056 A       |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3561          | G-AlMg5           |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.3591          | G-AlMg10          |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.0205          | Al99              | 1200 (A4)    | 9001/1    | 42 4009 |                 |         | L-3001   |        |          |     |                 |
|   |        | 3.0255          | Al99.5            | 1050 A       | 9001/2    | 42 4004 |                 |         | L-3051   |        |          |     |                 |
|   |        | 3.0275          | Al99.7            | 1070 A       |           | 42 4003 |                 |         | L-3071   |        |          |     |                 |
|   |        | 3.0285          | Al99.8            | 1080 A (A8)  |           | 42 4002 |                 |         | L-3081   |        |          |     |                 |
|   |        | 3.0305          | Al99.9            |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.0505          | AlMn0.5Mg0.5      |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.0506          | AlMn0.6           |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.0515          | AlMn1             |              |           | 42 4432 |                 |         | L-3810   |        |          |     |                 |
|   |        | 3.0517          | AlMnCu            |              |           |         |                 |         |          |        |          |     |                 |
|   |        | 3.0525          | AlMn1Mg0.5        | 3005         |           |         |                 |         |          |        |          |     |                 |

|   | Indeks | Numer materialu | DIN            | AFNOR             | UNI    | ČSN     | BS | SIS | UNE    | JIS    | GOST | UNS | USA    |
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| N | N.1.1  | 3.0526          | AlMn1Mg1       |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.0615          | AlMgSiPb       |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.0915          | AlFeSi         |                   |        |         |    |     |        |        |      |     |        |
|   | N.1.2  | 3.2307          | Al99.85MgSi    |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.2315          | AlMgSi1        | 6082              | 9006/4 | 42 4400 |    |     |        |        |      |     | 6082   |
|   |        | 3.3206          | AlMgSi0,5      | 6060 (AGS)        |        | 42 4401 |    |     | L-3441 |        |      |     | 6063   |
|   |        | 3.3208          | Al99.9MgSi     |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.3210          | AlMgSi0.7      | 6005 A            |        |         |    |     |        |        |      |     |        |
|   |        | 3.3211          | AlMg1SiCu      | 6061              |        |         |    |     |        |        |      |     |        |
|   |        | 3.3345          | AlMg4.5        |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.3545          | AlMg4Mn        | 5086 (AG4MC)      | 9005/5 |         |    |     | L-3322 |        |      |     | 5083   |
|   |        | 3.3547          | AlMg4,5Mn0,7   | 5083 (AlMg5Mn0,7) |        |         | N8 |     | L-3321 | A 5083 |      |     | A95083 |
|   |        | 3.3549          | AlMg5Mn        |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.4335          | AlZn4,5Mg1     | 7020 (AZ5G)       | 9007/1 | 42 4441 |    |     | L-3741 |        |      |     | 7020   |
|   |        | 3.4337          | Al99.8ZnMg     |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.4345          | AlZnMgCu0.5    |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.4365          | AlZnMgCu1.5    | 7075 (AZ5GU)      |        | 42 4222 |    |     | L-3710 |        |      |     | 7075   |
|   |        | 2.1086          | G-CuSn10Zn     |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.1255          | AlCuSiMn       | 2014              | 9002/3 |         |    |     |        |        |      |     | 2014   |
|   |        | 3.1305          | AlCu2.5Mg0.5   |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.1325          | AlCuMg1        | 2017 A (AU4G)     |        |         |    |     | L-3120 |        |      |     | 2017 A |
|   |        | 3.1355          | AlCuMg2        | 2024 (AU4G1)      | 9002/4 | 42 4203 |    |     | L-3140 |        |      |     | 2024   |
|   |        | 3.1645          | AlCuMgPb       | 2030 (AU4PB)      |        | 42 4254 |    |     | L-3121 |        |      |     |        |
|   |        | 3.1655          | AlCuBiPb       | 2011 (AU5PbBi)    | 9002/5 |         |    |     | L-3192 |        |      |     | 2011   |
|   |        | MFK             |                |                   |        |         |    |     |        |        |      |     |        |
|   | N.2.1  | 3.2581          | G-AlSi12       |                   |        | 42 4330 |    |     |        |        |      |     |        |
|   |        | 3.2583          | G-AlSi12(Cu)   |                   |        | 42 4330 |    |     |        |        |      |     |        |
|   |        | 3.3261          | G-AlMg5Si      |                   |        | 42 4515 |    |     |        |        |      |     |        |
|   |        | 3.3292          | GD-AlMg9       |                   |        | 42 4519 |    |     |        |        |      |     |        |
|   |        | 3.3541          | G-AlMg3        |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.3543          | G-AlMg3(Cu)    |                   |        |         |    |     |        |        |      |     |        |
|   | N.2.2  | 3.2134          | G-AlSi5Cu1Mg   |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.2151          | G-AlSi6Cu4     |                   |        | 42 4357 |    |     |        |        |      |     |        |
|   |        | 3.2161          | G-AlSi8Cu3     |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.2341          | G-AlSi5Mg      |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.2371          | G-AlSi7Mg      |                   |        | 42 4334 |    |     |        |        |      |     |        |
|   |        | 3.2373          | G-AlSi9Mg      |                   |        | 42 4331 |    |     |        |        |      |     |        |
|   |        | 3.2381          | G-AlSi10Mg     |                   |        | 42 4331 |    |     |        |        |      |     |        |
|   |        | 3.2383          | G-AlSi10Mg(Cu) |                   |        | 42 4331 |    |     |        |        |      |     |        |
|   |        | 3.3241          | G-AlMg3Si      |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.1371          | G-AlCu4TiMg    |                   |        |         |    |     |        |        |      |     |        |
|   |        | 3.1841          | G-AlCu4Ti      |                   |        |         |    |     |        |        |      |     |        |
|   | N.3.1  | 2.0040          | OF-Cu          |                   |        | 42 3000 |    |     |        |        |      |     |        |
|   |        | 2.0060          | E-Cu57         |                   |        | 42 3001 |    |     |        |        |      |     |        |
|   |        | 2.0065          | E-Cu58         |                   |        | 42 3001 |    |     |        |        |      |     |        |
|   |        | 2.0070          | SE-Cu          |                   |        |         |    |     |        |        |      |     |        |
|   |        | 2.0076          | SW-Cu          |                   |        |         |    |     |        |        |      |     |        |
|   |        | 2.0090          | SF-Cu          |                   |        | 42 3003 |    |     |        |        |      |     |        |
|   |        | 2.0220          | CuZn5          |                   |        | 42 3200 |    |     |        |        |      |     |        |
|   |        | 2.0230          | CuZn10         |                   |        | 42 3201 |    |     |        |        |      |     |        |
|   |        | 2.0240          | CuZn15         |                   |        | 42 3202 |    |     |        |        |      |     |        |

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| N | N.3.1  | 2.0250          | CuZn20         |       |       | 42 3203 |    |     |     |     |      |     |     |
|   |        | 2.0261          | CuZn28         |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0265          | CuZn30         |       |       | 42 3210 |    |     |     |     |      |     |     |
|   |        | 2.0280          | CuZn33         |       |       | 42 3212 |    |     |     |     |      |     |     |
|   |        | 2.0321          | CuZn37         |       | C2700 | 42 3213 |    |     |     |     |      |     |     |
|   |        | 2.0335          | CuZn36         |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0360          | CuZn40         |       |       | 42 3220 |    |     |     |     |      |     |     |
|   |        | 2.0460          | CuZn20Al2      |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0470          | CuZn28Sn1      |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0510          | CuZn37Al1      |       |       | 42 3231 |    |     |     |     |      |     |     |
|   |        | 2.0530          | CuZn38Sn1      |       |       | 42 3237 |    |     |     |     |      |     |     |
|   |        | 2.0730          | CuNi12Zn24     |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0740          | CuNi18Zn20     |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0830          | CuNi25         |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0842          | CuNi44Mn1      |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0853          | CuNi1.5Si      |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0855          | CuNi2Si        |       |       | 42 3054 |    |     |     |     |      |     |     |
|   |        | 2.0857          | CuNi3Si        |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0872          | CuNi10Fe1Mn    |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0875          | CuNi9Sn2       |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0882          | CuNi30Mn1Fe    |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0883          | CuNi30Fe2Mn2   |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0918          | CuAl5As        |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0920          | CuAl8          |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0932          | CuAl8Fe3       |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0936          | CuAl10Fe3Mn2   |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0960          | CuAl9Mn2       |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0966          | CuAl10Ni5Fe4   |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0971          | CuAl9Ni3Fe2    |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1016          | CuSn4          |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1020          | CuSn6          |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1030          | CuSn8          |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1080          | CuSn6Zn6       |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1191          | CuAg0.1P       |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1203          | CuAg0.1        |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1245          | CuBe1.7        |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1247          | CuBe2          |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1293          | CuCrZr         |       |       | 42 3039 |    |     |     |     |      |     |     |
|   |        | 2.1310          | CuFe2P         |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1522          | CuSi2Mn        |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.1525          | CuSi3Mn        |       |       |         |    |     |     |     |      |     |     |
|   |        | Ampco 16        | CuAl10Fe3      |       |       |         |    |     |     |     |      |     |     |
|   |        | Ampco 18        | CuAl10.5Fe3.5  |       |       |         |    |     |     |     |      |     |     |
|   |        | Ampco 8         | CuAl6.5Fe2.5Sn |       |       |         |    |     |     |     |      |     |     |
|   |        |                 | Ampco 8-16     |       |       |         |    |     |     |     |      |     |     |
|   | N.3.2  | 2.0331          | CuZn36Pb1.5    |       |       | 42 3214 |    |     |     |     |      |     |     |
|   |        | 2.0332          | CuZn37Pb0.5    |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0372          | CuZn39Pb0.5    |       |       | 42 3221 |    |     |     |     |      |     |     |
|   |        | 2.0540          | CuZn35Ni2      |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0550          | CuZn40Al2      |       |       |         |    |     |     |     |      |     |     |
|   |        | 2.0561          | CuZn40Al1      |       |       | 42 3231 |    |     |     |     |      |     |     |

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| N | N.3.2  | 2.0572          | CuZn40Mn1             |                 |     | 42 3234 |      |     |     |     |      |        |     |
|   |        | 2.0580          | CuZn40Mn1Pb           |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.0780          | CuNi12Zn30Pb1         |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.0790          | CuNi18Zn19Pb1         |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.1498          | CuSP                  |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.1504          | NiAlBz                |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.1546          | CuTeP                 |                 |     |         |      |     |     |     |      |        |     |
|   |        | Ampco 12        | CuAl9Fe3              |                 |     |         |      |     |     |     |      |        |     |
|   |        | Ampco 20        | CuAl11Fe4             |                 |     |         |      |     |     |     |      |        |     |
|   | N.3.3  | 2.0371          | CuZn38Pb1.5           |                 |     | 42 3222 |      |     |     |     |      |        |     |
|   |        | 2.0375          | CuZn36Pb3             |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.0380          | CuZn39Pb2             |                 |     | 42 3223 |      |     |     |     |      |        |     |
|   |        | 2.0401          | CuZn39Pb3             |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.0402          | CuZn40Pb2             |                 |     | 42 3223 |      |     |     |     |      |        |     |
|   |        | 2.0410          | CuZn44Pb2             |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.0490          | CuZn31Si1             |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.0500          | CuZn23Al6Mn4Fe3       |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.0771          | CuNi7Zn39Mn5Pb3       |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.0978          | CuAl11Ni6Fe5          |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.1093          | G-CuSn6ZnNi           |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.1096          | G-CuSn5ZnPb           |                 |     |         |      |     |     |     |      |        |     |
|   |        | 2.1285          | CuCo2Be               |                 |     |         |      |     |     |     |      |        |     |
|   |        | Ampco 21        | CuAl13Fe4.5           |                 |     |         |      |     |     |     |      |        |     |
|   |        | Ampco 22        | CuAl14Fe5             |                 |     |         |      |     |     |     |      |        |     |
|   |        | Ampco 25        |                       |                 |     |         |      |     |     |     |      |        |     |
|   |        | Ampco 26        |                       |                 |     |         |      |     |     |     |      |        |     |
|   |        |                 | Ampco 18-26           |                 |     |         |      |     |     |     |      |        |     |
|   | N.4.1  | 3.5101          | G-MgZn4SE1Zr1         |                 |     |         |      |     |     |     |      |        |     |
|   |        | 3.5102          | G-MgZn5Th2Zr1         |                 |     |         |      |     |     |     |      |        |     |
|   |        | 3.5103          | G-MgSE3Zn2Zr1         |                 |     |         |      |     |     |     |      |        |     |
|   |        | 3.5105          | G-MgTh3Zn2Zr1         |                 |     |         |      |     |     |     |      |        |     |
|   |        | 3.5106          | G-MgAg3Se2Zr1         |                 |     |         |      |     |     |     |      |        |     |
|   |        | 3.5200          | MgMn2                 |                 |     |         |      |     |     |     |      |        |     |
|   |        | 3.5312          | MgAl3Zn               |                 |     |         |      |     |     |     |      |        |     |
|   |        | 3.5470          | GD-MgAl4Si1           |                 |     |         |      |     |     |     |      |        |     |
|   |        | 3.5612          | GD-MgAl6Zn1           |                 |     |         |      |     |     |     |      |        |     |
|   |        | 3.5662          | G-MgAl6               |                 |     |         |      |     |     |     |      |        |     |
|   |        | 3.5812          | G-MgAl8Zn1            |                 |     | 42 4911 |      |     |     |     |      |        |     |
|   |        | 3.5912          | GD-MgAl9Zn1           |                 |     | 42 4911 |      |     |     |     |      |        |     |
| S | S.1.2  | 1.4980          | X 5 NiCrTi 26 15      |                 |     |         |      |     |     |     |      | S66286 |     |
|   | S.2.1  | 1.3924          | Ni54                  |                 |     |         |      |     |     |     |      |        |     |
|   |        | 1.3926          | RNi12                 |                 |     | 42 3484 |      |     |     |     |      |        |     |
|   |        | 1.3927          | RNi8                  |                 |     | 42 3484 |      |     |     |     |      |        |     |
|   |        | 2.4360          | NiCu30Fe              | Monel 400       |     | 42 3431 |      |     |     |     |      |        |     |
|   |        | 2.4610          | NiMo16Cr16Ti          | Hastelloy C-4   |     |         |      |     |     |     |      |        |     |
|   |        | 2.4617          | NiMo28                | Hastelloy B-2   |     |         |      |     |     |     |      |        |     |
|   |        | 2.4630          | NiCr20Ti              | Nimonic 75      |     |         | HR 5 |     |     |     |      |        |     |
|   |        | 2.4668          | NiCr19Fe18Nb5Mg       | Inconel 718     |     |         |      |     |     |     |      |        |     |
|   |        | 2.4812          | NiCr17Mo17FeW         | Hastelloy C     |     |         |      |     |     |     |      |        |     |
|   |        | 2.4819          | NiMo16Cr15W           | Hastelloy C-276 |     |         |      |     |     |     |      |        |     |
|   |        | 2.4851          | NiCr23Fe, Inconel 601 | Inconel 601     |     |         |      |     |     |     |      |        |     |

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| S | S.2.1  | 2.4856          | NiCr22Mo9Nb         | Inconel 625    |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4858          | NiCr21Mo            |                |                   |        | NA 16         |      |                | NCF 825     |           | N 08825 |      |
|   |        | 2.4951          | NiCr20Ti            | Nimonic 75     |                   |        | HR 5          |      |                |             |           |         |      |
|   |        | 2.4964          | CoCr20W15Ni         |                |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4989          | CoCr20NiW           |                |                   |        |               |      |                |             |           |         |      |
|   | S.2.2  | 2.4375          | NiCu30Al            | Monel K 500    |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4631          | NiCr20TiAl          | Nimonic 80 A   |                   |        | HR 401; 601   |      |                | NCF 80 A    |           | N 07080 |      |
|   |        | 2.4634          | NiCo20Cr15MoAlTi    | Nimonic 105    |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4640          | NiCr15Fe            | Inconel 600    |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4654          | NiCr20Co13Mo4Ti4Al  | Waspaloy       |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4662          | NiCr13Mo6Ti3        | Nimonic 901    |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4668          | NiCr19Fe18Nb5Mg     | Inconel 718    |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4816          | NiCr15Fe            | Inconel 600    |                   |        | NA 14         |      |                | NCF 600     |           | N 06600 |      |
|   |        | 2.4952          | NiCr20TiAl          | Nimonic 80 A   |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4973          | NiCr19Co11MoTi      |                |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4983          | NiCr18Co18MoAlTi    | Udimet 500     |                   |        |               |      |                |             |           |         |      |
|   | S.2.3  | 2.4670          | G-NiCr13Al6MoNb     | Nimocast 713   |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4674          | NiCo15Cr10MoAlTi    | Nimocast PK 24 |                   |        |               |      |                |             |           |         |      |
|   |        | 2.4979          | CoCr28MoNi          |                |                   |        |               |      |                |             |           |         |      |
|   | S.3.1  | 3.7024          | Ti99,5              |                |                   |        |               |      |                |             |           |         |      |
|   |        | 3.7025          | Ti99,8              |                |                   |        |               |      |                |             |           |         |      |
|   |        | 3.7034          | Ti99,7              |                |                   |        |               |      |                |             |           |         |      |
|   |        | 3.7055          | Ti99,4              |                |                   |        |               |      |                |             |           |         |      |
|   |        | 3.7064          | Ti99,2              |                |                   |        |               |      |                |             |           |         |      |
|   |        | 3.7124          | TiCu2               |                |                   |        |               |      |                |             |           |         |      |
|   | S.3.2  | 3.7114          | TiAl5Sn2            |                |                   |        |               |      |                |             |           |         |      |
|   |        | 3.7144          | TiAl6Sn2Zr4Mo2      |                |                   |        |               |      |                |             |           |         |      |
|   |        | 3.7154          | TiAl6Zr5            |                |                   |        |               |      |                |             |           |         |      |
|   |        | 3.7165          | TiAl6V4             | T-A 6 V        |                   |        | TA 10 – TA 13 |      |                |             |           | R 56400 |      |
|   |        | 3.7174          | TiAl6V6Sn2          |                |                   |        |               |      |                |             |           |         |      |
|   |        | 3.7184          | TiAl4Mo4Sn2         |                |                   |        | TA 45 – TA 51 |      |                |             |           |         |      |
| H | H.1.1  | 1.2311          | 40 CrMnMo 7         |                |                   | 19 520 |               |      |                |             |           |         |      |
|   |        | 1.2312          | 40 CrMnMoS 8 6      | 40 CMD 8 + S   |                   |        |               |      |                |             |           |         |      |
|   |        | 1.2316          | X 36 CrMo 17        | Z 38 CD 17     | X 38 CrMo 16 1 KU |        |               |      |                |             |           |         |      |
|   |        | 1.2365          | X 32 CrMoV 3 3      | 32 DCV 28      | 30 CrMoV 12 27 KU | 19 541 | BH 10         |      |                | SKD 7       | 3Ch3M3F   | T 20810 | H 10 |
|   |        | 1.2567          | X 30 WCrV 5 3       | Z 32 WCV 5     | X 30 WCrV 5 3 KU  | 19 720 |               |      |                | SKD 4       |           |         |      |
|   |        | 1.2581          | X 30 WCrV 9 3       | Z 30 WCV 9     | X 30 WCrV 9 3 KU  | 19 721 | BH 21         |      |                | SKD 5       | 3Ch2W8F   | T 20821 | H 21 |
|   |        | 1.2738          | 40 CrMnNiMo 8       |                |                   |        |               |      | F-5303         |             |           |         |      |
|   |        | 1.2885          | X 32 CrMoCoV 3 3 3  | 30 DCKV 28     |                   |        |               |      |                |             |           |         |      |
|   |        | 1.4028          | X 30 Cr 13          | Z 30 C 13      | X 30 Cr 13        | 17 023 | 420 S 45      | 2304 |                | SUS 420 J 2 | 30Ch13    |         |      |
|   |        | 1.4031          | X 38 Cr 13          | Z 40 C 14      | X 40 Cr 14        | 17 024 |               | 2304 | F-3404         | SUS 420 J 2 | 40Ch13    |         |      |
|   |        | 1.4034          | X 46 Cr 13          | Z 40 C 14      | X 40 Cr 14        | 17 029 | 420 S 45      |      | F-3405         |             | 40Ch13    |         |      |
|   |        | 1.4112          | X 90 CrMoV 18       |                |                   |        |               |      |                |             |           | S 44003 |      |
|   |        | 1.5122          | 37 MnSi 4           |                |                   | 13 240 |               |      |                |             |           |         |      |
|   |        | 1.6358          | X 2 NiCoMoTi 18 9 5 |                |                   |        |               |      |                |             |           |         |      |
|   |        | 1.6582          | 34 CrNiMo 6         | 35 NCD 6       | 35 NiCrMo 6 (KW)  | 16 342 | 817 M 40      | 2541 | F-128 / F-1270 | SNCM 447    | 38Ch2N2MA |         | 4340 |
|   |        | 1.7003          | 38 Cr 2             | 38 C 2         | 38 Cr 2           |        |               |      |                |             |           |         |      |
|   |        | 1.7006          | 46 Cr 2             | 42 C 2         | 45 Cr 2           |        |               |      |                |             |           |         | 5045 |
|   |        | 1.7030          | 28 Cr 4             |                |                   |        | 530 A 30      |      |                |             | 30Ch      |         | 5130 |
|   |        | 1.7176          | 55 Cr 3             | 55 C 3         | 55 Cr 3           |        | 527 A 60      | 2253 | F-1431         | SUP 9 (A)   | 50ChGA    | G 51550 | 5155 |
|   |        | 1.0961          | 60 SiCr 7           | 60 SC 7        | 60 SiCr 8         |        |               |      |                | SUP 7       |           |         | 9262 |

|   | Indeks | Numer materialu | DIN               | AFNOR                | UNI                 | ČSN    | BS       | SIS        | UNE            | JIS            | GOST     | UNS     | USA        |
|---|--------|-----------------|-------------------|----------------------|---------------------|--------|----------|------------|----------------|----------------|----------|---------|------------|
| H | H.1.1  | 1.1248          | Ck 75             | XC 75                | C 75                | 12 081 | 060 A 78 | 1774; 1778 |                |                | 75       | G 10780 | 1078; 1080 |
|   |        | 1.1273          | 90 Mn 4           |                      |                     |        |          |            |                |                |          |         |            |
|   | H.1.2  | 1.2083          | X 42 Cr 13        | Z 40 C 14            | X 41 Cr 13 KU       | 19 435 |          |            | F-5263         | SUS 420 J 2    |          |         |            |
|   |        | 1.2323          | GS-48 CrMoV 6 7   |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.2343          | X 38 CrMoV 5 1    | Z 38 CDV 5           | X 37 CrMoV 5 1 KU   | 19 552 | BH 11    |            | F-5317         | SKD 6          | 4Ch5MFS  | T 28811 | H 11       |
|   |        | 1.2367          | X 38 CrMoV 5 3    |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.2510          | 100 MnCrW 4       | 90 MWCV 5            | 95 MnWCr 5 KU       | 19 314 | BO 1     | 2140       | F-5220         | SKS 3          |          | T 31501 | O 1        |
|   |        | 1.2542          | 45 WCrV 7         |                      | 45 WCrV 8 KU        | 19 732 | BS 1     | 2710       |                |                |          | T 41901 | S 1        |
|   |        | 1.2550          | 60 WCrV 7         | 55 WC 20             | 55 WCrV 8 KU        | 19 735 |          |            |                |                |          |         |            |
|   |        | 1.2606          | G-X 37 CrMoW 5 1  |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.2711          | 54 NiCrMoV 6      | 55 NCDV 6            |                     | 19 662 |          |            |                |                |          |         |            |
|   |        | 1.2713          | 55 NiCrMoV 6      | 55 NCDV 7            |                     | 19 662 |          |            | F-520.S        | SKT 4          | 5ChNM    | T 61206 | L 6        |
|   |        | 1.2764          | X 19 NiCrMo 4     |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.2767          | X 45 NiCrMo 4     | Y 35 NCD 16          | 42 NiCrMo 15 7      | 19 655 |          |            |                |                |          |         |            |
|   |        | 1.4109          | X 65 CrMo 14      |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.4112          | X 90 CrMoV 18     |                      |                     |        |          |            |                |                |          | S 44003 |            |
|   |        | 1.1157          | 40 Mn 4           | 35 M 5               |                     |        | 150 M 36 |            |                |                | 40G      | G 10390 | 1039       |
|   |        | 1.1231          | Ck 67             | XC 68                | C 70                | 12 071 | 060 A 67 | 1770       |                |                | 70       | G 10700 | 1070       |
|   |        | 1.1274          | Ck 101            | XC 100               |                     |        | 060 A 96 | 1870       |                | SUP 4          |          | G 10950 | 1095       |
|   | H.1.3  | 1.2080          | X 210 Cr 12       | Z 200 C 12           | X 210 Cr 13 KU      | 19 436 | BD 3     |            |                | SKD 1          | Ch12     | T 30403 | D 3        |
|   |        | 1.2101          | 62 SiMnCr 4       |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.2162          | 21 MnCr 5         | 20 NC 5              |                     | 19 487 |          |            |                | SCR 420 H      |          |         |            |
|   |        | 1.2201          | G-X 165 CrV 12    |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.2210          | 115 CrV 3         | 100 C 3              | 107 CrV 3 KU        | 19 421 |          |            |                |                |          | T 61202 | L 2        |
|   |        | 1.2341          | X 6 CrMo 4        |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.2379          | X 155 CrVMo 12 1  | Z 160 CDV 12         | X 155 CrVMo 12 1 KU | 19 573 | BD 2     |            | F-5211         | SKD 11         |          | T 30402 | D 2        |
|   |        | 1.2419          | 105 WCr 6         | 105 WC 13            | 107 WCr 5 KU        |        |          |            |                | SKS 31         | ChWG     |         |            |
|   |        | 1.2601          | X 165 CrMoV 12    |                      | X 165 CrMoW 12 KU   | 19 572 |          | 2310       |                |                |          |         |            |
|   |        | 1.2721          | 50 NiCr 13        |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.2735          | 15 NiCr 14        | 10 NC 12             |                     | 16 240 |          |            |                | SNC 22         |          | T 51606 |            |
|   |        | 1.2833          | 100 V 1           | Y1 105 V             | 102 V 2 KU          | 19 356 | BW 2     |            |                | SKS 43         |          | T 72302 | W 210      |
|   |        | 1.2842          | 90 MnCrV 8        | 90 MV 8              | 90 MnVCr 8 KU       | 19 314 | BO 2     |            |                |                |          | T 31502 | O 2        |
|   |        | 1.3505          | 100 Cr 6          | 100 C 6              | 100 Cr 6            | 14 100 | 534 A 99 | 2258       | F-131 / F-1310 | SUJ 2          | SchCh 15 | G 52986 | 52100      |
|   |        | 1.4112          | X 90 CrMoV 18     |                      |                     |        |          |            |                |                |          | S 44003 |            |
|   |        | 1.4125          | X 105 CrMo 17     | Z 100 CD 17          | X 105 CrMo 17       |        |          |            |                | SUS 440 C      |          | S 44004 | 440 C      |
|   |        | 1.8161          | 58 CrV 4          |                      |                     | 15 261 |          |            |                |                |          |         |            |
|   |        | 1.1520          | C 70 W1           |                      |                     |        |          |            |                |                |          |         |            |
|   | H.1.4  | 1.2363          | X 100 CrMoV 5 1   | Z 100 CDV 5          | X 100 CrMoV 5 1 KU  | 19 571 | BA 2     | 2260       | F-5227         | SKD 12         |          | T 30102 | A 2        |
|   |        | 1.2436          | X 210 CrW 12      | Z 200 CW 12          | X 215 CrW 12 1 KU   | 19 437 |          | 2312       | F-5213         | SKD 2          |          |         |            |
|   |        | 1.2880          | G-X 165 CrCoMo 12 |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.3202          | S 12-1-4-5        |                      |                     | 19 858 |          |            |                |                |          | T 12015 | T15        |
|   |        | 1.3207          | S 10-4-3-10       | Z 130 WKCDV 10-10-04 | HS 10-4-3-10        | 19 861 | BT 42    |            | F-5553         | SKH 57         |          |         |            |
|   |        | 1.3243          | S 6-5-2-5         | Z 85 WDKCV 06-05-05  | HS 6-5-2-5          | 19 852 |          | 2723       | F-5613         | SKH 55         | R6M5K5   |         |            |
|   |        | 1.3246          | S 7-4-2-5         | Z 110 WKCDV 07-05-04 | HS 7-4-2-5          | 19 851 |          |            |                |                |          | T 11341 | M 41       |
|   |        | 1.3247          | S 2-10-1-8        | Z 110 DKCWV 09-08-04 | HS 2-9-1-8          |        | BM 42    |            |                | SKH 51         |          | T 11342 | M 42       |
|   |        | 1.3249          | S 2-9-2-8         |                      |                     |        | BM 34    |            |                |                |          | T 11333 | M 33; M 34 |
|   |        | 1.3257          | S 18-1-2-15       |                      |                     |        |          |            |                |                |          |         |            |
|   |        | 1.3333          | S 3-3-2           |                      | HS 3-3-2            | 19 820 |          |            |                |                |          |         |            |
|   |        | 1.3343          | S 6-5-2           | Z 85 WDCV 06-05-04-0 | HS 6-5-2            | 19 830 | BM 2     | 2722       | F-5603         | SKH 9; SKH 51  | R6AM5    | T 11302 | M 2        |
|   |        | 1.3344          | S 6-5-3           | Z 120 WDCV 06-05-04  | HS 6-5-3            |        | BM 4     |            |                | SKH 52; SKH 53 |          | T 11323 | M 3 Cl. 2  |
|   |        | 1.3346          | S 2-9-1           | Z 85 DCWV 08-04-02-0 | HS 1-8-1            |        | BM 1     |            |                |                | H41      | T 11301 | H 41; M 1  |

|   | Indeks | Numer materialu | DIN                     | AFNOR                  | UNI       | ČSN    | BS                 | SIS     | UNE | JIS   | GOST | UNS     | USA                     |
|---|--------|-----------------|-------------------------|------------------------|-----------|--------|--------------------|---------|-----|-------|------|---------|-------------------------|
| H | H.1.4  | 1.3348          | S 2-9-2                 | Z 100 DCWV<br>09-04-02 | HS 2-9-2  |        |                    | 2782    |     |       |      | T 11307 | M 7                     |
|   |        | 1.3355          | S 18-0-1                | Z 80 WCV<br>18-04-01   | HS 18-0-1 | 19 824 | BT 1               |         |     | SKH 2 | R18  | T 12001 | T 1                     |
|   |        | 1.1654          | C 110 W                 |                        |           |        |                    |         |     |       |      |         |                         |
|   | H.3.1  | 0.9620          | G-X 260 NiCr 4 2        |                        |           |        | Grade 2 A          | 0512-00 |     |       |      |         | A 532 I B<br>NiCr-LC    |
|   |        | 0.9625          | G-X 330 NiCr 4 2        |                        |           |        | Grade 2 B          | 0513-00 |     |       |      |         | A 532 I A<br>NiCr-HC    |
|   |        | 0.9630          | G-X 300 CrNiSi<br>9 5 2 |                        |           |        | Grade 2 C;<br>D; E | 0457-00 |     |       |      |         | A 532 I D<br>Ni-HiCr    |
|   |        | 0.9635          | G-X 330 CrMo 15 3       |                        |           |        | Grade 3<br>A; B    |         |     |       |      |         | A 532 II C<br>15% CrMo- |
|   |        | 0.9640          | G-X 300 CrMoNi<br>15 2  |                        |           |        | Grade 3<br>A; B    |         |     |       |      |         |                         |
|   |        | 0.9645          | G-X 260 CrMoNi<br>20 2  |                        |           |        | Grade 3 C          |         |     |       |      |         | A 532 II D<br>20% CrMo- |
|   |        | 0.9650          | G-X 260 Cr 27           |                        |           |        | Grade 3 D          | 0466-00 |     |       |      |         | A 532 III A<br>25% Cr   |
|   |        | 0.9655          | G-X 300 CrMo 27 1       |                        |           |        | Grade 3 E          |         |     |       |      |         | A 532 III A<br>25% Cr   |
|   |        |                 |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        |                 |                         |                        |           |        |                    |         |     |       |      |         |                         |
| O | O.1.1  | EP              |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | MF              |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | PF              |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | UP              |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   | O.1.2  | PA              |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | PC              |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | PE              |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | PI              |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | PMMA            |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | POM             |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | PP              |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | PS              |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | PTFE            |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | PVC             |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   | O.2.1  | AFK             |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   | O.2.2  | CFK             |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   |        | GFK             |                         |                        |           |        |                    |         |     |       |      |         |                         |
|   | O.3.1  | Grafiet         |                         |                        |           |        |                    |         |     |       |      |         |                         |

# System oznaczania ISO

| ISO Kod  | Opis kodu                                               |
|----------|---------------------------------------------------------|
| <b>A</b> |                                                         |
| ADJRG    | Zakres regulacji                                        |
| ADJRGR   | Regulacja promieniowa                                   |
| ALP      | Osiowy kąt przyłożenia                                  |
| AN       | Główny kąt przyłożenia, główna krawędź skrawająca       |
| APMX     | Maksymalna głębokość skrawania                          |
| <b>B</b> |                                                         |
| B        | Szerokość chwytu oprawki                                |
| BD       | Średnica korpusu                                        |
| BD_1     | Średnica korpusu, 1. etap                               |
| BD_2     | Średnica korpusu, 2. etap                               |
| BD_3     | Średnica korpusu, 3. etap                               |
| BD_4     | Średnica korpusu, 4. etap                               |
| BDRED    | Zredukowana średnica korpusu                            |
| BDX      | Maksymalna średnica korpusu                             |
| BHTA     | Kąt stożka szyjki                                       |
| BLQ      | Jakość wyważenia                                        |
| BN       | Szerokość ścinu powierzchni natarcia                    |
| BS       | Długość ostrza typu dogładzającego                      |
| BTED     | Najmniejsza średnica stożka                             |
| <b>C</b> |                                                         |
| CDX      | Maksymalna głębokość skrawania                          |
| CF       | Szerokość ścinu na profilu ostrza                       |
| CHW      | Szerokość ścinu korpusu                                 |
| CHWTL    | Szerokość ścinu naroża ostrza, lewa                     |
| CLDIS_1  | Odległość od środka osi 1                               |
| CLDIS_2  | Odległość od środka osi 2                               |
| CLDIS_3  | Odległość od środka osi 3                               |
| CND      | Średnica podłączenia chłodziwa                          |
| CNT      | Wielkość gwintu wlotu chłodziwa                         |
| CODX     | Średnica podziałowa, max.                               |
| CRE      | Promień punktu                                          |
| CRKS     | Wielkość gwintu śruby ściągającej złącza                |
| CW       | Szerokość skrawania                                     |
| CXD      | Średnica wylotu chłodziwa                               |
| <b>D</b> |                                                         |
| D1       | Średnica otworu mocującego                              |
| DAXN     | Minimalna średnica zewnętrzna rowka czołowego           |
| DAXX     | Maksymalna średnica zewnętrzna rowka czołowego          |
| DC       | Średnica skrawania                                      |
| DC_1     | Ø cięcia, 1. stopień                                    |
| DC_2     | Średnica skrawania, 2. Stopień                          |
| DCD      | Średnica skrawająca wiertła                             |
| DCINTF   | Średnica przejścia                                      |
| DCN      | Minimalna średnica skrawania                            |
| DCONMS   | Średnica złącza po stronie obrabiarki                   |
| DCONWS   | Średnica przyłącza od strony przedmiotu obrabianego     |
| DCONWS_1 | Średnica przyłącza od strony przedmiotu obrabianego – 1 |
| DCONWS_2 | Średnica przyłącza od strony przedmiotu obrabianego – 2 |
| DCKX     | Maksymalna średnica otworu                              |
| DCX      | Maksymalna średnica skrawania                           |
| DF       | Średnica kołnierza                                      |
| DFC      | Średnica funkcyjna                                      |
| DHUB     | Średnica piasty                                         |
| DLN      | Średnica zewnętrzna nakrętki mocującej                  |
| DMIN     | Średnica minimalna otworu obrabianego                   |
| DN       | Średnica szyjki                                         |
| DRVS     | rozwartość klucza                                       |

| ISO Kod  | Opis kodu                              |
|----------|----------------------------------------|
| <b>G</b> |                                        |
| GAN      | Kąt natarcia                           |
| GB       | Kąt ścinu powierzchni natarcia         |
| <b>H</b> |                                        |
| H        | Wysokość chwytu                        |
| HDD      | Średnica głowicy                       |
| HDW      | Szerokość głowicy                      |
| HF       | Wysokość funkcjonalna                  |
| HLN      | Wysokość nakrętki mocującej            |
| HSUP     | Wysokość nasadki                       |
| <b>I</b> |                                        |
| IC       | Średnica okręgu wpisanego              |
| IDNR     | Identyfikujący numer zamówienia        |
| IH       | Wersja płytki                          |
| INSL     | Długość płytki                         |
| <b>K</b> |                                        |
| KAPR     | Kąt przystawienia wg ISO               |
| KCH      | Kąt fazki naroża                       |
| <b>L</b> |                                        |
| L        | Długość krawędzi                       |
| L_1      | Długość krawędzi skrawającej 1         |
| L_2      | Długość krawędzi skrawającej 2         |
| L_3      | Długość krawędzi skrawającej 3         |
| LB       | Długość korpusu                        |
| LB_1     | Długość korpusu 1                      |
| LB_2     | Długość korpusu 2                      |
| LCF      | Długość rowka wiórowego                |
| LCOL     | Zacisk, długość tulei zaciskowej       |
| LDRED    | Długość zredukowanej średnicy korpusu  |
| LE       | Efektywna długość krawędzi skrawającej |
| LF       | Długość funkcjonalna                   |
| LF_1     | Długość funkcjonalna 1                 |
| LF_2     | Długość funkcjonalna 2                 |
| LF_3     | Długość funkcjonalna 3                 |
| LFSF     | Odległość powierzchni czołowej         |
| LH       | Długość głowicy                        |
| LPCON    | Całkowita długość głowicy              |
| LPR      | Długość wysunięcia                     |
| LS       | Długość chwytu                         |
| LSC      | Długość chwytu                         |
| LSCN     | Długość mocowania, min                 |
| LSCX     | Długość mocowania, maks                |
| LTA      | Wysięg narzędzie                       |
| LU       | Długość użytkowa                       |
| <b>M</b> |                                        |
| MXC      | Maksymalna siła mocowania              |
| <b>N</b> |                                        |
| NOF      | Liczba rowków                          |
| NT       | Ilość zębów                            |
| <b>O</b> |                                        |
| OAH      | Wysokość całkowita                     |
| OAL      | Długość całkowita                      |
| OAW      | Szerokość całkowita                    |

Ciąg dalszy na następnej stronie

## System oznaczania ISO

| ISO Kod  | Opis kodu                                                           |
|----------|---------------------------------------------------------------------|
| <b>P</b> |                                                                     |
| PDPT     | Głębokość profilu                                                   |
| PDX      | Odległość profilu x                                                 |
| PDY      | Odległość profilu y                                                 |
| PHD      | Średnica otworu wstępnie obrobionego                                |
| PL       | Długość wierzchołka                                                 |
| PLGL     | Długość nacięcia                                                    |
| PNA      | Kąt zarysu na krawędzi skrawającej                                  |
| PRFA     | Kąt zarysu na krawędzi skrawającej                                  |
| PRFRAD   | Promień profilu                                                     |
| PRFRAD1  | Promień profilu 1                                                   |
| PRFRAD2  | Promień profilu 2                                                   |
| PRFRAD3  | Promień profilu 3                                                   |
| PSIR     | Kąt przystawienia wg ANSI                                           |
| <b>R</b> |                                                                     |
| RA       | Boczny kąt przyłożenia                                              |
| RADH     | Promieniowa wysokość korpusu                                        |
| RADW     | Promieniowa szerokość korpusu                                       |
| RADWOF   | Szerokość przesunięcia, promieniowo                                 |
| RAL      | Kąt przyłożenia bocznej krawędzi skrawającej, lewy                  |
| RAR      | Kąt przyłożenia bocznej krawędzi skrawającej, prawy                 |
| RCSK     | Promień pogłębienia                                                 |
| RE       | Promień naroża                                                      |
| RE_1     | Promień naroża 1                                                    |
| RE_2     | Promień naroża 2                                                    |
| RE_3     | Promień naroża 3                                                    |
| REL      | Promień naroża z lewej strony                                       |
| RETL     | Promień boczny, lewy                                                |
| RETR     | Promień boczny, prawy                                               |
| RHCDL    | Odległość promieniowa ścinu, dolna                                  |
| RHCDU    | Odległość promieniowa ścinu, górna                                  |
| RPMX     | Maksymalna prędkość obrotowa                                        |
| <b>S</b> |                                                                     |
| S        | Grubość płytki                                                      |
| S1       | Grubość płytki                                                      |
| SD       | Odległość stopnia                                                   |
| SDL      | Długość stopnia                                                     |
| SDL_1    | Długość stopnia, krok 1                                             |
| SDL_2    | Długość stopnia, krok 2                                             |
| SZID     | wielkość nominalna                                                  |
| <b>T</b> |                                                                     |
| TD       | Średnica gwintu                                                     |
| TDIN     | Średnica gwintu, cal                                                |
| THID     | Oznaczenie gwintu, wewnętrzne                                       |
| THL      | Długość części gwintującej                                          |
| THOD     | Oznaczenie gwintu, zewnętrzne                                       |
| THSZMS   | Wielkość znamionowa gwintu złącza po stronie obrabiarki             |
| THSZWS   | Wielkość znamionowa gwintu złącza po stronie przedmiotu obrabianego |
| TP       | Podziałka gwintu                                                    |
| TPI      | Liczba zwojów gwintu na cal                                         |
| TQX      | Maksymalny moment obrotowy                                          |

| ISO Kod  | Opis kodu                             |
|----------|---------------------------------------|
| <b>W</b> |                                       |
| W1       | Szerokość płytki                      |
| WF       | Szerokość funkcjonalna                |
| WF2      | Szerokość funkcjonalna 2              |
| WT       | Ciężar elementu                       |
| <b>Z</b> |                                       |
| ZEFF     | Liczba efektywnych ostrzy na czole    |
| ZEFP     | Liczba efektywnych ostrzy na obwodzie |
| ZNF      | Liczba płytek, poz. A                 |
| ZNP      | Liczba płytek, poz. B                 |

