

| LMSA                                       | Description                                |   | N° DIN           | EN      | AIISI | UNS              |
|--|--|---|------------------|---------|-------|------------------|
| <b>Beryllium Copper - Beryllium Nickel</b> |  |   |                  |         |       |                  |
| A100                                       | CuBe2 - Alloy 25                           | Materion Brush Alloy 25                         | 2.1247           | CW101C  | -     | C17200           |
| A150                                       | CuBe2 - Alloy 190 Mill hard.               | Materion Brush Alloy 190 Mill hard.             | 2.1247           | CW101C  | -     | C17200           |
| A170                                       | CuBe2 - Alloy 290 Mill hard.               | Materion Brush Alloy 290 Mill hard.             | 2.1247           | CW101C  | -     | C17200           |
| A520                                       | CuNi2Be - Alloy 60 <sup>®</sup> Mill hard. | Materion Brush Alloy 60 <sup>®</sup> Mill hard. | -                | -       | -     | C17460           |
| A300                                       | CuNi2Be - Alloy 3                          | Materion Brush Alloy 3                          | 2.0850           | CW110C  | -     | C17510           |
| A350                                       | CuNi2Be - Alloy 3 Mill hard.               | Materion Brush Alloy 3 Mill hard.               | 2.0850           | CW110C  | -     | C17510           |
| A500                                       | CuCo0.5Be - Alloy 174 Mill hard.           | Materion Brush Alloy 174 Mill hard.             | -                | -       | -     | C17410           |
| A800                                       | NiBe2                                      | Materion Brush Alloy 360                        | -                | -       | -     | N03360           |
| <b>Brasses - Bronzes - Nickel Silver</b>   |  |   |                  |         |       |                  |
| B200                                       | CuZn28                                     | Cartridge Brass (PAM) Brass 28%                 | 2.0261           | CW504L  | -     | -                |
| B210                                       | CuZn37                                     | Yellow Brass(Lt 63) Brass 37%                   | 2.0321           | ~CW508L | -     | ~C27200          |
| B215                                       | CuZn42                                     | Blue Brass <sup>®</sup> PNA 378                 | -                | CW510L  | -     | C28500           |
| B217                                       | CuZn42                                     | Blue Brass <sup>®</sup> PNA 380                 | -                | CW510L  | -     | C28500           |
| B221                                       | CuZn38Pb2                                  | High leaded Brass (Lt 602)                      | -                | CW606N  | -     | ~C35300          |
| B230                                       | CuZn23Al3Co                                | HP Brass (Lt 74)                                | -                | CW703R  | -     | ~C68800          |
| B310                                       | CuSn6                                      | Phosphor Bronze (Bz 946)                        | 2.1020           | CW452K  | -     | C51900           |
| B300                                       | CuSn8                                      | Phosphor Bronze (Bz 928)                        | 2.1030           | CW453K  | -     | C52100           |
| B320                                       | CuNi9Sn2                                   | Copper Nickel Tin 725 (Bz 920)                  | 2.0875           | CW351H  | -     | C72500           |
| B330                                       | CuSn3Zn9                                   | Tin Brass (Bz 902)                              | -                | CW454K  | -     | ~C42500          |
| B400                                       | CuNi12Zn24                                 | Nickel Silver (M12)                             | 2.0730           | CW403J  | -     | ~C75700          |
| B410                                       | CuNi18Zn20                                 | Nickel Silver (M18)                             | 2.0740           | CW409J  | -     | ~C76400          |
| B420                                       | CuNi12Zn25Pb1                              | Leaded Nickel Silver (M 132)                    | -                | CW404J  | -     | ~C79200          |
| <b>Copper and other Copper Alloys</b>      |  |   |                  |         |       |                  |
| B100                                       | Cu-ETP                                     | E-Cu58 / Cu a1 (Cu 99)                          | 2.0060           | CW004A  | -     | C11000           |
| B110                                       | Cu-OF                                      | OF-Cu / Cu c1                                   | 2.0040           | CW008A  | -     | C10200           |
| B109                                       | Cu-OFE                                     | Pure Copper                                     | -                | -       | -     | C10100           |
| B130                                       | STOL <sup>®</sup> 76                       | CuNi1.3Si0.25                                   | -                | -       | -     | C19010           |
| B135                                       | STOL <sup>®</sup> 76M                      | CuNi1.3Si0.25                                   | -                | -       | -     | C19002           |
| B145                                       | STOL <sup>®</sup> 78                       | CuMg0.6   | -                | -       | -     | C18665           |
| B500                                       | CuNi30Mn1Fe                                | Copper Nickel 30%                               | 2.0882           | CW354H  | -     | ~C71500          |
| B520                                       | CuNi44Mn1 - Konstantan                     | Konstantan, Vernicon                            | 2.0842           | -       | -     | ~C72150          |
| B860                                       | CuNi15Sn8 - BF.158                         | Materion BrushForm 158                          | -                | -       | -     | C72900           |
| B865                                       | CuNi15Sn8 - BF.158 Mill hard               | Materion BrushForm 158 Mill hard                | -                | -       | -     | C72900           |
| <b>Nickel and nickel alloys</b>            |  |   |                  |         |       |                  |
| B540                                       | Nickel                                     | Ni 201 / Ni 200                                 | 2.4066<br>2.4060 | -       | -     | N02201<br>N02200 |
| B541                                       | Nickel                                     | Ni 200  | 2.4068           | -       | -     | N02200           |
| B542                                       | Pure Nickel 99.8%                          | Ni 99.8%  | 2.4061           | -       | -     | N02201           |
| B560                                       | NiCu30Fe                                   | (Monel) Alloy 400                               | 2.4360           | -       | -     | N04400           |
| B580                                       | NiCr15Fe                                   | (Inconel) Alloy 600                             | 2.4816           | -       | -     | N06600           |
| B585                                       | NiCr22Mo9Nb                                | (Inconel), Alloy 625                            | 2.4856           | -       | -     | N06625           |
| B600                                       | NiCr20                                     | Brightray <sup>®</sup> , Tophet <sup>®</sup>    | 2.4869           | -       | -     | N06003           |
| B610                                       | NiCr20Al2.5Cu2Mn1Si1                       | Evanohm <sup>®</sup>                            | 2.4872           | -       | -     | -                |
| B620                                       | NiMo16Cr15W                                | Inconel (Hastelloy) Alloy C-276                 | 2.4819           | -       | -     | N10276           |
| B635                                       | NiCr19Fe17Nb5Mo3Co                         | Inconel (Hastelloy) Alloy 718                   | 2.4668           | -       | -     | N07718           |
| <b>Aluminium alloys</b>                    |  |   |                  |         |       |                  |
| B760                                       | Pure Aluminium                             | Al 99.5%  | 3.0275           | AW-1050 | -     | -                |
| B700                                       | AlMg3                                      | (Peraluman 300)                                 | 3.3535           | AW-5754 | -     | AA5754           |
| B705                                       | AlMg4.5Mn                                  | (Peraluman 460)                                 | 3.3535           | AW-5083 | -     | AA5083           |
| B710                                       | AlCuMg2                                    | (Avional 150)                                   | 3.1355           | AW-2024 | -     | AA2024           |
| B720                                       | AlCuMg2                                    | (Avional 150) Mill hard                         | 3.1355           | AW-2024 | -     | AA2024           |

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| <b>Iron &amp; Unalloyed Structural Steels</b>                          |                    |   |          |        |         |         |
| C100   | RFe80              | Soft magnetic Iron, (Iron 04)   | 1.1014   | -      | -       | -       |
| C200   | Ck60 - proprietary | LMSA Proprietary chem. composition (H4)   | 1.1221   | C60E   | -       | ~G10640 |
| C230   | Ck101              | Ck101, (H1)   | 1.1274   | 2CS100 | -       | G10950  |
| C240   | Ck75               | Ck75, (BCM)   | 1.1248   | 2CS75  | -       | G10780  |
| C320   | C100 + Pb          | Leaded steel C100, (HT10)   | -        | -      | -       | -       |
| C330   | 140Cr3             | (140Cr3, Cr3)   | 1.2008   | -      | -       | -       |
| <b>Stainless Steels</b>  |                    |   |          |        |         |         |
| D100   | X10CrNi18-8        | X12CrNi18-8   | 1.4310   | -      | ~301    | S30100  |
| D101   | X10CrNi18-8        | X12CrNi18-8 DIN, low nickel   | 1.4310.4 | -      | ~301    | S30100  |
| D110   | X5CrNi18-10        | X5CrNi18-9, (18/8)  | 1.4301   | -      | ~304    | S30400  |
| D150   | X11CrNiMn19-8-6    | Durnomag®   | 1.4369   | -      | -       | -       |
| D200   | X46Cr13            | X46Cr13   | 1.4034   | -      | ~420    | S42000  |
| D300   | X6CrNiMoTi17-12-2  | X6CrNiMoTi17-12-2   | 1.4571   | -      | ~316Ti  | -       |
| D310   | X2CrNiMo18-14-3    | X2CrNiMo18-14-3   | 1.4435   | -      | ~316L   | S31603  |
| D320   | X2CrNiMo17-12-2    | X2CrNiMo17-13-2   | 1.4404   | -      | ~316L   | S31603  |
| D330   | X5CrNiMo17-12-2    | X5CrNiMo17-13-2   | 1.4401   | -      | ~316    | -       |
| D340   | X4CrNi18-12        | X4CrNi18-12   | 1.4303   | -      | ~305    | S30500  |
| D345   | X2CrNiMo18-15-3    | For surgical applications, ferrite-free<br>ASTM F138-139 and ISO 5832-1. 316LVM | 1.4441   | -      | ~316LVM | -       |
| D347   | AM 350             | Hardenable with good weldability  | -        | -      | 633     | S35000  |
| <b>Maraging Steels</b>   |                    |   |          |        |         |         |
| E100   | X2NiCoMo18-9-5     | Durnico® - Maraging Steel / Durimphy®   | 1.6358   | -      | -       | K93160  |
| E150   | X2NiCoMo18-16-5    | Phytime® - Maraging Steel   | -        | -      | -       | -       |
| E200   | X2NiCrMoTi10-10-5  | Durinox® - Maraging Steel / Ultrafort® 6908                                     | 1.6908   | -      | -       | -       |
| <b>Superalloy (high strength and corrosion resistant Cobalt Alloy)</b> |                    |   |          |        |         |         |
| E300   | Co40Cr20Ni16Mo7    | Phynox®, Elgiloy - Medical Grade  | -        | -      | -       | R30003  |
| E400   | CoNi35Cr20Mo10     | MP35N®, ASTM F562 / ISO 5832-6  | -        | -      | -       | R30035  |
| F135   | Duratherm® 600     |   | 2.4781   | -      | -       | -       |
| <b>Magnetic alloys</b>   |                    |   |          |        |         |         |
| C100   | RFe80              | (Iron 04)   | 1.1014   | -      | -       | -       |
| F105-7   | Mu-metal           | Mu-metal - Mumetal®   | -        | -      | -       | -       |
| F115   | FeNi36             | Supra 36®   |          |        |         |         |
| F112   | FeNi48             | Supra 50®   |          |        |         |         |
| F110   | Permenorm®         | Permenorm® 5000 V5  | -        | -      | -       | -       |
| <b>Other alloys</b>  |                    |   |          |        |         |         |
| F240   | FeNi36             | Ni36 (Invar)  | 1.3912   | -      | -       | K93600  |
| F260   | NiCo29-18          | Kovar, Nilo K   | 1.3981   | -      | -       | K94610  |
| F300   | FeCr20Al5          | Aluchrom  | 1.4767   | -      | -       | -       |
| F160   | Titanium Grade 1   | Pure Titanium (Grade 1)   | 3.7025   | -      | -       | R50250  |
| F161   | Titanium Grade 1 M | Pure Titanium (Grade 1) ASTM-F67 -<br>Medical                                   | 3.7025   | -      | -       | R50250  |
| F162   | Titanium Grade 2   | Pure Titanium (Grade 2)   | 3.7035   | -      | -       | R50400  |
| F163   | Titanium Grade 2 M | Pure Titanium (Grade 2) ASTM-F67 -<br>Medical                                   | 3.7035   | -      | -       | R50400  |