



**HM Wire International, Inc.**  
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| Nominal Chemical Compositions (%) |                      |              |      |  |     |       |       |      |       |      |      |         |                  |                             |
|-----------------------------------|----------------------|--------------|------|--|-----|-------|-------|------|-------|------|------|---------|------------------|-----------------------------|
| Alloy                             | Ni                   | Cr           | C    | Mn   | Fe  | S     | P     | Si   | Cu    | Sn   | Zn   | Al      | Other            | Typical Specification       |
| Stainless Steels                  |                      |              |      | Produced in square, flat and special shaped        |     |       |       |      |       |      |      |         |                  |                             |
| T-302                             | 8 - 10               | 17-19        | 0.15 | 2.00   | BAL | 0.03  | 0.045 | 1.00 |       |      |      |         |                  | AMS 5866 ASTM A-313*        |
| T-304                             | 8 - 10.5             | 18-20        | 0.08 | 2.00   | BAL | 0.03  | 0.045 | 1.00 |       |      |      |         |                  | ASTM A-580 ASTM A-313*      |
| T-304L                            | 8 - 12               | 18-20        | 0.03 | 2.00   | BAL | 0.03  | 0.045 | 1.00 |       |      |      |         |                  | ASTM A-580 ASTM A-240*      |
| T-316                             | 10 - 14              | 16-18        | 0.08 | 2.00   | BAL | 0.03  | 0.045 | 1.00 |       |      |      |         | MO 2.00-3.00     | ASTM A-240* ASTM A-313*     |
| T-316L                            | 10 - 14              | 16-18        | 0.03 | 2.00   | BAL | 0.03  | 0.045 | 1.00 |       |      |      |         | MO 2.00-3.00     | ASTM A-580 ASTM A-240*      |
| T-430                             | -                    | 16-18        | 0.12 | 1.00   | BAL | 0.03  | 0.040 | 1.00 |       |      |      |         |                  | ASTM A-580 ASTM A-240*      |
| 17-7PH                            | 6.5 - 7.7            | 16-18        | 0.09 | 1.00   | BAL | 0.04  | 0.04  | 1.00 |       |      |      | .75-1.5 |                  | AMS 5678* ASTM A-313*       |
| A-286 (1)                         | 26                   | 15           | 0.05 | 1.40   | BAL |       |       | 0.40 |       |      |      |         | MO 1.25, TI 2.15 | AMS 5525                    |
| Nitronic 32                       | .05 - 2.5            | 16.5 - 19.00 | 0.15 | 11.00-14.00  | BAL | 0.030 | 0.060 | 1.00 |       |      |      |         | N .20 - .45      | ASTM A-580 ASTM A-313*      |
| Copper Alloys                     |                      |              |      | Produced in round, square, flat and special shaped |     |       |       |      |       |      |      |         |                  |                             |
| CDA 102                           | OFHC COPPER          |              |      |  |     |       |       |      | 99.95 |      |      |         |                  | ASTM B-272 ASTM B1, B2, B3^ |
| CDA 110                           | ETP COPPER           |              |      |  |     |       |       |      | 99.9  |      |      |         | 0, .04           | ASTM B-272 ASTM B1, B2, B3^ |
| CDA 172                           | BERYLLIUM COPPER #25 |              |      |  |     |       |       | 0.20 | 98.01 |      |      |         | BE 1.9 NI&CO .20 | ASTM B-197                  |
| CDA 220                           | COMMERCIAL BRONZE    |              |      |  |     |       |       |      | 90    |      | 10   |         |                  | ASTM B-134                  |
| CDA 226                           | JEWELRY BRONZE       |              |      |  |     |       |       |      | 87.5  |      | 12.5 |         |                  |                             |
| CDA 230                           | RED BRASS            |              |      |  |     |       |       |      | 85    |      | 15   |         |                  | ASTM B-134                  |
| CDA 240                           | LOW BRASS            |              |      |  |     |       |       |      | 80    |      | 20   |         |                  | ASTM B-134                  |
| CDA 260                           | CARTRIDGE BRASS      |              |      |  |     |       |       |      | 70    |      | 30   |         |                  | ASTM B-134                  |
| CDA 270                           | YELLOW BRASS         |              |      |  |     |       |       |      | 65    |      | 35   |         |                  | ASTM B-134                  |
| CDA 510                           | PHOSPHOR BRONZE "A"  |              |      |  |     |       |       | 0.20 | 95    | 5.00 |      |         |                  | ASTM B-159                  |
| CDA 521                           | PHOSPHOR BRONZE "C"  |              |      |  |     |       |       |      | 92    | 8.00 |      |         |                  | ASTM B-160                  |
| CDA 725                           | COPPER-NICKEL-TIN    |              |      |  |     |       |       |      | 88    | 2.30 |      |         | NI 9.50          |                             |
| CDA 745                           | NICKEL SILVER (10%)  |              |      |  |     |       |       |      | 65    |      | 25   |         | NI 10            | ASTM B-206                  |
| CDA 752                           | NICKEL SILVER (18%)  |              |      |  |     |       |       |      | 65    |      | 17   |         | NI 18            | ASTM B-206                  |

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| Nominal Chemical Compositions (%) |           |           |          |   |         |       |       |           |      |    |    |      |  |                         |
|-----------------------------------|-----------|-----------|----------|---|---------|-------|-------|-----------|------|----|----|------|--|-------------------------|
| Alloy                             | Ni        | Cr        | C        | Mn  | Fe      | S     | P     | Si        | Cu   | Sn | Zn | Al   | Other                                    | Typical Specification   |
| Carbon Steels                     |           |           |          | Produced in square, flat and special shaped |         |       |       |           |      |    |    |      |  |                         |
| C1010                             |           |           | .08-.13  | .30-.60                                     |         | 0.050 | 0.040 |           |      |    |    |      |  | ASTM A -805             |
| C1050                             |           |           | .48-.55  | .60-.90                                     |         | 0.050 | 0.040 |           |      |    |    |      |  | ASTM A -805             |
| C1075                             |           |           | .70-.80  | .40-.70                                     |         | 0.050 | 0.040 |           |      |    |    |      |  | ASTM A -805             |
| C1095                             |           |           | .90-1.03 | .30-.50                                     |         | 0.050 | 0.040 |           |      |    |    |      |  | ASTM A -805             |
| HDMB                              |           |           | .45-.85  | .30-1.30                                    |         | 0.050 | 0.040 | .15-.35   |      |    |    |      |  | ASTM A-227*             |
| OTMB                              |           |           | .55-.85  | .30-1.20                                    |         | 0.050 | 0.040 | .15-.35   |      |    |    |      |  | ASTM A-229*             |
| MUSIC WIRE                        |           |           | .70-1.00 | .20-.60                                     |         | 0.030 | 0.025 | .10-.30   |      |    |    |      |  | ASTM A-228*             |
| CHROME SILICON                    | .50 - .80 |           | .50-.60  | .50-.90                                     |         | 0.030 | 0.030 | 1.20-1.60 |      |    |    |      |  | ASTM A-401*             |
| CHROME VANADIUM                   | .80-1.10  |           | .48-.53  | .70-.90                                     |         | 0.040 | 0.040 | .20-.35   |      |    |    |      | V .15                                    | ASTM A-231*             |
| Nickel Alloys                     |           |           |          | Produced in square, flat and special shaped |         |       |       |           |      |    |    |      |  |                         |
| INCONEL 600 (2)                   | 76.0      | 15.5      | 0.08     | 0.50  | 8.00    | 0.008 |       | 0.25      | 0.25 |    |    |      |  | AMS 7232*               |
| INCONEL 625 (2)                   | 61.0      | 22        | 0.05     | 0.25  | 2.50    | 0.008 |       | 0.25      |      |    |    | 0.20 | Ti .20, MO 9.0<br>CB&TA 3.65             | AMS 5666                |
| MONEL 400 (2)                     | 66.5      |           | 0.15     | 1.00  | 1.25    | 0.012 |       | 0.25      | 31.5 |    |    |      |  | ASTM B-127*             |
| NICKEL 200 (2)                    | 99.5      |           | 0.10     | 0.18  | 0.20    | 0.005 |       | 0.18      | 0.13 |    |    |      |  | ASTM B-160*             |
| INCONEL X-750 (2)                 | 73.0      | 15.5      | 0.04     | 0.50  | 7.00    | 0.005 |       | 0.25      | 0.25 |    |    | 0.70 | Ti 2.50 CB&YA<br>0.95                    | AMS 5699 AMS 5698       |
| INCONEL 718 (2)                   | 52.5      | 18.5      | 0.04     | 0.18  | 18.5    | 0.008 |       | 0.18      | 0.15 |    |    | 0.50 | Ti .90 MO 3.05<br>CB&TA 5.13             | ASTM B-637* AMS 5562*   |
| HASTELLOY C22                     | BAL       | 20.0-22.5 | 0.02     | 1.0   | 2.0-6.0 | 0.015 | 0.03  | 0.2       | 0.5  |    |    |      | CO 2.5 MO 12.5 -<br>14.5 V .35 W 2.5-3.5 | ASME A5.11 AWS A5.11    |
| HASTELLOY C276                    | BAL       | 14.5-16.5 | 0.02     | 1.0   | 4.0-7.0 | 0.03  | 0.04  | 0.2       | 0.5  |    |    |      | CO 2.5 MO 15.0-<br>17.0 V .35 W 3.0-4.5  | ASME SFA 5.11 AWS A5.11 |

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