

Stainless Steel (inc. High Performance) - 1.4305 / 303

Hexagon Bar

Properties

| Stock | | Chemical Properties | |
|---------------|---------------|---------------------|------------------------|
| Size A/F (in) | Weight/m (Kg) | Element | Chemical Composition % |
| 0.250 | 0.27 | Carbon (C) | 0.0 - 0.10 |
| 7mm | 0.33 | Chromium (Cr) | 17.0 - 19.0 |
| 8mm | 0.44 | Manganese (Mn) | 0.0 - 2.0 |
| 0.312 | 0.46 | Silicon (Si) | 0.0 - 1.0 |
| 0.375 | 0.64 | Phosphorus (P) | 0.0 - 0.45 |
| 10mm | 0.68 | Sulphur (S) | 0.0 - 0.15 |
| 11mm | 0.82 | Nickel (Ni) | 8.0 - 10.0 |
| 0.437 | 0.85 | Iron (Fe) | Balance |
| 0.445 | 0.87 | | |
| 0.500 | 1.11 | | |
| 13mm | 1.15 | | |
| 0.525 | 1.21 | | |
| 14mm | 1.32 | | |
| 0.562 | 1.39 | | |
| 0.600 | 1.56 | | |
| 0.625 | 1.71 | | |
| 17mm | 1.94 | | |
| 0.687 | 2.07 | | |
| 0.710 | 2.20 | | |
| 19mm | 2.45 | | |
| 0.750 | 2.50 | | |
| 0.812 | 2.89 | | |
| 0.820 | 2.90 | | |
| 22mm | 3.27 | | |
| 0.875 | 3.35 | | |
| 0.920 | 3.69 | | |
| 0.937 | 3.84 | | |
| 24mm | 3.92 | | |
| 1.000 | 4.38 | | |
| 1.010 | 4.40 | | |
| 27mm | 4.98 | | |
| 1.100 | 5.22 | | |
| 1.125 | 5.54 | | |
| 30mm | 6.10 | | |
| 1.200 | 6.23 | | |
| 1.250 | 6.85 | | |
| 1.300 | 7.23 | | |
| 1.375 | 8.28 | | |
| 36mm | 8.76 | | |
| 1.480 | 9.37 | | |
| 1.750 | 13.42 | | |
| 1.860 | 15.04 | | |

| Mechanical Properties | |
|-----------------------|----------------|
| Property | Value |
| Proof Stress | 190 min MPa |
| Tensile Strength | 500 to 700 MPa |
| Elongation A50 mm | 35% min |

| Physical Properties | |
|------------------------|------------------------------|
| Property | Value |
| Density | 8.03 g/cm ³ |
| Melting Point | 1455°C |
| Thermal Expansion | 17.3 x 10 ⁻⁶ /K |
| Modulus of Elasticity | 193 GPa |
| Thermal Conductivity | 16.3 W/m.K |
| Electrical Resistivity | 0.072 x 10 ⁻⁶ Ω.m |

| | |
|---------------------------------------|-------|
| 50mm | 16.94 |
| 2.000 | 17.53 |
| 2.050 | 18.38 |
| 2.220 | 21.65 |
| 2.375 | 25.17 |
| 2.750 | 33.32 |
| All sizes available in cold drawn H11 | |

Disclaimer

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