

Stainless Steel (inc. High Performance) - 1.4404 / 316L

Sheet - Super Mirror Marine

Properties

| Stock | | Chemical Properties | |
|----------------------------|-------------------|--|------------------------|
| Size (mm) | Weight/Sheet (Kg) | Element | Chemical Composition % |
| 2500 x 1250 x 0.9 | 22.5 | Carbon (C) | 0.0 - 0.03 |
| 2500 x 1250 x 1.0 | 25.0 | Chromium (Cr) | 16.50 - 18.50 |
| 2500 x 1250 x 1.2 | 30.0 | Molybdenum (Mo) | 2.0 - 2.5 |
| 2500 x 1250 x 1.5 | 37.5 | Silicon (Si) | 0.0 - 1.0 |
| 2500 x 1250 x 2.0 | 50.0 | Phosphorus (P) | 0.0 - 0.05 |
| 2500 x 1250 x 2.5 | 62.5 | Sulphur (S) | 0.0 - 0.01 |
| 2500 x 1250 x 3.0 | 75.0 | Nickel (Ni) | 10.0 - 13.0 |
| 2500 x 1250 x 4.0 | 100.0 | Manganese (Mn) | 0.0 - 2.0 |
| 2500 x 1250 x 5.0 | 125.0 | Iron (Fe) | Balance |
| 2500 x 1250 x 6.0 | 150.0 | Above properties are for 1.4404 | |
| Specification: EN10088-2/3 | | 1.4404/316L also corresponds to the following designation 316S11 | |

Mechanical Properties

| Property | Value |
|---|---------------|
| Properties below are for 1.4404 (316L) which also corresponds to 316S11 | |
| Proof Stress | 220 min MPa |
| Tensile Strength | 520 - 680 MPa |
| Elongation A50 mm | 40% min |

Physical Properties

| Property | Value |
|--|------------------------------|
| Density | 8.00 g/cm ³ |
| Melting Point | 1400°C |
| Thermal Expansion | 15.9 x 10 ⁻⁶ /K |
| Modulus of Elasticity | 193 GPa |
| Thermal Conductivity | 16.3 W/m.K |
| Electrical Resistivity | 0.074 x 10 ⁻⁶ Ω.m |
| 1.4404/316L also corresponds to the following designation 316S11 | |

Disclaimer

This data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

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