

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

Rectangular Section - Dull Polished

Properties

Stock		Chemical Properties	
Size (mm)	Weight/m (Kg)	Element	Chemical Composition %
40 x 20 x 1.5	1.37	Carbon (C)	0.0 - 0.03
50 x 25 x 1.5	1.74	Chromium (Cr)	16.50 - 18.50
60 x 30 x 2.0	2.77	Molybdenum (Mo)	2.0 - 2.5
60 x 40 x 2.0	3.08	Silicon (Si)	0.0 - 1.0
60 x 40 x 3.0	4.56	Phosphorus (P)	0.0 - 0.05
80 x 40 x 2.0	4.98	Sulphur (S)	0.0 - 0.01
80 x 40 x 3.0	5.52	Nickel (Ni)	10.0 - 13.0
100 x 50 x 2.0	4.68	Manganese (Mn)	0.0 - 2.0
100 x 50 x 3.0	6.95	Iron (Fe)	Balance
100 x 50 x 4.0	9.17	Above properties are for 1.4404	

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

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Disclaimer

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