

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

Rectangular Section - Standard Mirror Polished

Stock	
Size (mm)	Weight/m (Kg)
50 x 25 x 1.5	1.74
80 x 40 x 3	5.52
100 x 50 x 3	6.95
Specification: ASTM A554	Lengths: 6 metres

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Properties

Chemical Properties	
Element	Chemical Composition %
Carbon (C)	0.0 - 0.03
Chromium (Cr)	16.50 - 18.50
Molybdenum (Mo)	2.0 - 2.5
Silicon (Si)	0.0 - 1.0
Phosphorus (P)	0.0 - 0.05
Sulphur (S)	0.0 - 0.01
Nickel (Ni)	10.0 - 13.0
Manganese (Mn)	0.0 - 2.0
Iron (Fe)	Balance
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
1.4404/316L also corresponds to the following designation 316S11	

[Print Spec Sheet](#)

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