

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

Box Section - Dull Polished

Properties

Stock		Chemical Properties	
Size (mm)	Weight/m (Kg)	Element	Chemical Composition %
20 x 20 x 1.5	0.88	Carbon (C)	0.0 - 0.03
25 x 25 x 1.5	1.14	Chromium (Cr)	16.50 - 18.50
25 x 25 x 2.0	1.49	Molybdenum (Mo)	2.0 - 2.5
25 x 25 x 3.0	2.17	Silicon (Si)	0.0 - 1.0
30 x 30 x 1.5	1.38	Phosphorus (P)	0.0 - 0.05
30 x 30 x 2.0	1.81	Sulphur (S)	0.0 - 0.01
30 x 30 x 3.0	2.72	Nickel (Ni)	10.0 - 13.0
40 x 40 x 1.5	1.86	Manganese (Mn)	0.0 - 2.0
40 x40 x 2.0	2.45	Iron (Fe)	Balance
40 x 40 x 3.0	3.60	Above properties are for 1.4404	
50 x 50 x 1.5	2.34	1.4404/316L also corresponds to the following designation 316S11	
50 x 50 x 2.0	3.09		
50 x 50 x 3.0	4.56		
50 x 50 x 5.0	7.35		
60 x 60 x 3.0	5.52		
80 x 80 x 3.0	7.43		
100 x 100 x 3.0	9.34		
		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

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