

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

Welded Tube Linear Buff

Properties

Stock			Chemical Properties	
OD (in)	Gauge	Weight/m (Kg)	Element	Chemical Composition %
1	1.5	0.90	Carbon (C)	0.0 - 0.03
1 1/4	1.5	1.14	Chromium (Cr)	16.50 - 18.50
1 1/2	1.5	1.38	Molybdenum (Mo)	2.0 - 2.5
1 1/2	2.0	1.81	Silicon (Si)	0.0 - 1.0
2	1.5	1.85	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 <sup>3</sup>		
Melting Point		1400°C		
Thermal Expansion		15.9 x 10 <sup>-6</sup> /K		
Modulus of Elasticity		193 GPa		
Thermal Conductivity		16.3 W/m.K		
Electrical Resistivity		0.074 x 10 <sup>-6</sup> Ω.m		
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**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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