

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

### Welded Handrail Tube Satin Polish 320 Grit Properties

Stock			Chemical Properties	
OD (mm)	Wall (mm)	Weight/m (Kg)	Element	Chemical Composition %
42.4	2.0	2.02	Carbon (C)	0.0 - 0.03
42.4	2.5/2.6	2.50	Chromium (Cr)	16.50 - 18.50
48.3	1.5	1.76	Molybdenum (Mo)	2.0 - 2.5
48.3	2.0	2.32	Silicon (Si)	0.0 - 1.0
48.3	2.5/2.6	2.87	Phosphorus (P)	0.0 - 0.05
50.8	3.0	3.59	Sulphur (S)	0.0 - 0.01
60.3	2.0	2.90	Nickel (Ni)	10.0 - 13.0
60.3	2.5	3.60	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

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