

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

Welded Tube 600 Grit Mirror Polished

Properties

Stock			Chemical Properties	
OD (in)	Gauge	Weight/m (Kg)	Element	Chemical Composition %
1/2	1.2	0.35	Carbon (C)	0.0 - 0.03
1/2	1.5	0.42	Chromium (Cr)	16.50 - 18.50
5/8	1.2	0.44	Molybdenum (Mo)	2.0 - 2.5
5/8	1.5	0.54	Silicon (Si)	0.0 - 1.0
19mm	1.2	0.54	Phosphorus (P)	0.0 - 0.05
3/4	1.2	0.54	Sulphur (S)	0.0 - 0.01
3/4	1.5	0.66	Nickel (Ni)	10.0 - 13.0
7/8	1.2	0.63	Manganese (Mn)	0.0 - 2.0
7/8	1.5	0.77	Iron (Fe)	Balance
1	1.2	0.73	Above properties are for 1.4404	
1	1.5	0.90	1.4404/316L also corresponds to the following	
1	2.0	1.17	designation 316S11	
1 1/8	3.0	1.68		
1 1/4	1.5	1.13		
30mm	2.0	1.40		
1 1/2	1.2	1.11		
1 1/2	1.5	1.38		
1 1/2	2.0	1.81		
1 1/2	3.0	2.64		
1 3/4	1.5	1.62		
2	1.5	1.85		
2	2.0	2.44		
2	3.0	3.59		
2 1/2	1.5	2.33		
3	1.5	2.81		
3	2.0	3.72		
3	3.0	5.49		
4	1.5	3.76		
			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	

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