

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

Metric ISO tube

Properties

Stock			Chemical Properties	
OD (mm)	Gauge	Weight/m (Kg)	Element	Chemical Composition %
28	1.5	0.99	Carbon (C)	0.0 - 0.03
38	1.5	1.37	Chromium (Cr)	16.50 - 18.50
43	1.5	1.56	Molybdenum (Mo)	2.0 - 2.5
44.5	2.0	2.13	Silicon (Si)	0.0 - 1.0
53	1.5	1.93	Phosphorus (P)	0.0 - 0.05
54	2.0	2.40	Sulphur (S)	0.0 - 0.01
69	2.0	3.35	Nickel (Ni)	10.0 - 13.0
83	1.5	3.06	Manganese (Mn)	0.0 - 2.0
84	2.0	3.90	Iron (Fe)	Balance
103	1.5	3.81	Above properties are for 1.4404	
104	2.0	5.12	1.4404/316L also corresponds to the following designation 316S11	
129	2.0	6.36		
153	1.5	5.69		
154	2.0	7.61		
204	2.0	10.12		
206	3.0	15.25		
254	2.0	15.79		
256	3.0	19.01		
304	2.0	15.12		
355.6	3.0	26.49		
406.4	3.0	30.30		
508	3.0	37.94		
609.6	3.0	45.57		
			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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