

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

Seamless Butt Weld Stub Ends

Properties

Stock			Chemical Properties	
NB (in)	SCH	Weight (Kg)	Element	Chemical Composition %
1/2	10S	0.06	Carbon (C)	0.0 - 0.03
1/2	40S	0.08	Chromium (Cr)	16.50 - 18.50
3/4	10S	0.08	Molybdenum (Mo)	2.0 - 2.5
3/4	40S	0.10	Silicon (Si)	0.0 - 1.0
1	10S	0.13	Phosphorus (P)	0.0 - 0.05
1	40S	0.16	Sulphur (S)	0.0 - 0.01
1 1/4	10S	0.18	Nickel (Ni)	10.0 - 13.0
1 1/4	40S	0.23	Manganese (Mn)	0.0 - 2.0
1 1/2	10S	0.21	Iron (Fe)	Balance
1 1/2	40S	0.28	Above properties are for 1.4404	
2	10S	0.34	1.4404/316L also corresponds to the following designation 316S11	
2	40S	0.47		
2 1/2	10S	0.45		
2 1/2	40S	0.74		
3	10S	0.57		
4	10S	0.87		
4	40S	1.68		
5	10S	1.21		
6	10S	1.64		
6	40S	3.37		

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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