

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

Seamless Butt Weld Equal Tees

Properties

Stock			Chemical Properties	
NB (in)	SCH	Weight (Kg)	Element	Chemical Composition %
1/2	10S	0.07	Carbon (C)	0.0 - 0.03
1/2	40S	0.08	Chromium (Cr)	16.50 - 18.50
1/2	80S	0.11	Molybdenum (Mo)	2.0 - 2.5
3/4	10S	0.09	Silicon (Si)	0.0 - 1.0
3/4	40S	0.11	Phosphorus (P)	0.0 - 0.05
3/4	80S	0.16	Sulphur (S)	0.0 - 0.01
1	10S	0.20	Nickel (Ni)	10.0 - 13.0
1	40S	0.24	Manganese (Mn)	0.0 - 2.0
1	80S	0.32	Iron (Fe)	Balance
1 1/4	10S	0.33	Above properties are for 1.4404	
1 1/4	40S	0.41	1.4404/316L also corresponds to the following designation 316S11	
1 1/2	10S	0.46		
1 1/2	40S	0.60		
1 1/2	80S	0.80		
2	10S	0.63		
2	40S	0.87		
2	80S	1.20		
2 1/2	10S	1.01		
2 1/2	40S	1.66		
3	10S	1.37		
3	40S	1.90		
3	80S	3.25		
4	10S	2.15		
4	40S	4.13		
4	80S	5.74		
6	10S	4.76		
6	40S	9.73		
			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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