

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

Welded Butt Weld Reducing Tees

Properties

Stock			Chemical Properties	
NB (in)	SCH	Weight (Kg)	Element	Chemical Composition %
3/4 x 1/2	10S	0.08	Carbon (C)	0.0 - 0.03
1 x 1/2	10S	0.19	Chromium (Cr)	16.50 - 18.50
1 x 3/4	10S	0.19	Molybdenum (Mo)	2.0 - 2.5
1 1/4 x 1	10S	0.31	Silicon (Si)	0.0 - 1.0
1 1/2 X 1/2	10S	0.39	Phosphorus (P)	0.0 - 0.05
1 1/2 x 1	10S	0.42	Sulphur (S)	0.0 - 0.01
2 x 1	10S	0.54	Nickel (Ni)	10.0 - 13.0
2 x 1 1/2	10S	0.59	Manganese (Mn)	0.0 - 2.0
2 1/2 x 2	10S	0.94	Iron (Fe)	Balance
3 x 1 1/2	10S	1.19	Above properties are for 1.4404	
3 x 2	10S	1.23	1.4404/316L also corresponds to the following designation 316S11	
3 x 2 1/2	10S	1.31		
4 x 1 1/2	10S	1.81		
4 x 2	10S	1.88		
4 x 2 1/2	10S	1.95		
4 x 3	10S	2.20		
5 x 4	10S	3.21		
6 x 3	10S	4.21		
6 x 4	10S	4.34		
8 x 4	10S	7.48		
8 x 4	40S	15.90		
8 x 6	10S	7.91		
8 x 6	40S	16.80		
10 x 4	10S	12.30		
10 x 6	10S	12.80		
10 x 6	40S	27.60		
10 x 8	10S	13.30		
10 x 8	40S	28.90		
12 x 6	10S	19.10		
12 x 6	40S	39.10		
12 x 8	10S	19.60		
12 x 8	40S	40.30		
12 x 10	10S	20.50		
12 x 10	40S	42.30		

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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