

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

Welded Butt Weld Eccentric Reducers

Properties

Stock			Chemical Properties	
NB (in)	SCH	Weight (Kg)	Element	Chemical Composition %
3/4 x 1/2	10S	0.04	Carbon (C)	0.0 - 0.03
1 x 1/2	10S	0.09	Chromium (Cr)	16.50 - 18.50
1 x 1/2	40S	0.11	Molybdenum (Mo)	2.0 - 2.5
1 x 3/4	10S	0.10	Silicon (Si)	0.0 - 1.0
1 x 3/4	40S	0.17	Phosphorus (P)	0.0 - 0.05
1 1/2 x 3/4	10S	0.15	Sulphur (S)	0.0 - 0.01
1 1/2 x 1	10S	0.17	Nickel (Ni)	10.0 - 13.0
1 1/2 x 1	40S	0.22	Manganese (Mn)	0.0 - 2.0
1 1/2 x 1 1/4	10S	0.18	Iron (Fe)	Balance
2 x 1	10S	0.23	Above properties are for 1.4404	
2 x 1	40S	0.32	1.4404/316L also corresponds to the following designation 316S11	
2 x 1 1/4	10S	0.25		
2 x 1 1/2	10S	0.27		
2 x 1 1/2	40S	0.37		
2 1/2 x 2	10S	0.43		
3 x 1 1/2	10S	0.45		
3 x 1 1/2	40S	0.78		
3 x 2	10S	0.48		
3 x 2	40S	0.85		
3 x 2 1/2	10S	0.52		
4 x 1 1/2	10S	0.60		
4 x 2	10S	0.67		
4 x 2	40S	1.27		
4 x 2 1/2	10S	0.71		
4 x 3	10S	0.76		
4 x 3	40S	1.45		
6 x 3	10S	1.53		
6 x 4	10S	1.65		
6 x 4	40S	3.30		
6 x 5	10S	1.78		
8 x 4	10S	2.43		
8 x 4	40S	5.10		
8 x 6	10S	2.72		
8 x 6	40S	5.71		
10 x 6	10S	4.76		
10 x 8	10S	4.96		

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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