

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

Flanges BS10

Properties

Stock		Chemical Properties	
NB (in)	Table	Element	Chemical Composition %
Slip-on & Blind		Carbon (C)	0.0 - 0.03
1/2	D	Chromium (Cr)	16.50 - 18.50
1/2	E	Molybdenum (Mo)	2.0 - 2.5
3/4	D	Silicon (Si)	0.0 - 1.0
3/4	E	Phosphorus (P)	0.0 - 0.05
1	D	Sulphur (S)	0.0 - 0.01
1	E	Nickel (Ni)	10.0 - 13.0
1 1/4	D	Manganese (Mn)	0.0 - 2.0
1 1/4	E	Iron (Fe)	Balance
1 1/2	D	Above properties are for 1.4404	
1 1/2	E	1.4404/316L also corresponds to the following designation 316S11	
2	D		
2	E		
2 1/2	D	Mechanical Properties	
2 1/2	E	Property	Value
3	D	Properties below are for 1.4404 (316L) which also corresponds to 316S11	
3	E	Proof Stress	220 min MPa
4	D	Tensile Strength	520 - 680 MPa
4	E	Elongation A50 mm	40% min
5	D		
5	E	Physical Properties	
6	D	Property	Value
6	E	Density	8.00 g/cm ³
8	D	Melting Point	1400°C
8	E	Thermal Expansion	15.9 x 10 ⁻⁶ /K
10	D	Modulus of Elasticity	193 GPa
10	E	Thermal Conductivity	16.3 W/m.K
12	D	Electrical Resistivity	0.074 x 10 ⁻⁶ Ω.m
12	E	1.4404/316L also corresponds to the following designation 316S11	
Other sizes and table ratings available on request			

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