

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

### Bright Polished Fittings

### Properties

Stock		Chemical Properties	
NB (in)	Fitting Type	Element	Chemical Composition %
1	90 degree bend	Carbon (C)	0.0 - 0.03
1 1/2	90 degree bend	Chromium (Cr)	16.50 - 18.50
2	90 degree bend	Molybdenum (Mo)	2.0 - 2.5
		Silicon (Si)	0.0 - 1.0
		Phosphorus (P)	0.0 - 0.05
		Sulphur (S)	0.0 - 0.01
		Nickel (Ni)	10.0 - 13.0
		Manganese (Mn)	0.0 - 2.0
		Iron (Fe)	Balance
Above properties are for 1.4404			
1.4404/316L also corresponds to the following designation 316S11			
		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 <sup>3</sup>
		Melting Point	1400°C
		Thermal Expansion	15.9 x 10 <sup>-6</sup> /K
		Modulus of Elasticity	193 GPa
		Thermal Conductivity	16.3 W/m.K
		Electrical Resistivity	0.074 x 10 <sup>-6</sup> Ω.m
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