

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

Hygienic Fittings

Properties

Stock	Chemical Properties	
Hygienic fittings 1" - 4"	Element	Chemical Composition %
RJT & DIN hexagon nuts	Carbon (C)	0.0 - 0.03
RJT & DIN weld liners	Chromium (Cr)	16.50 - 18.50
RJT & DIN weld males	Molybdenum (Mo)	2.0 - 2.5
RJT & DIN joint rings	Silicon (Si)	0.0 - 1.0
RJT & DIN blank caps	Phosphorus (P)	0.0 - 0.05
RJT hose liners	Sulphur (S)	0.0 - 0.01
RJT blank nut and chain	Nickel (Ni)	10.0 - 13.0
IDF hex nuts unions	Manganese (Mn)	0.0 - 2.0
IDF weld liners unions	Iron (Fe)	Balance
IDF weld males unions	Above properties are for 1.4404	
IDF joint rings unions	1.4404/316L also corresponds to the following designation 316S11	
Clamp union		
Clamp		
Clamp ferrule		
Clamp blank		
Clamp seal/joint ring	Properties below are for 1.4404 (316L) which also corresponds to 316S11	
ISO 90 degree bends polished	Proof Stress	220 min MPa
ISO 45 degree bends polished	Tensile Strength	520 - 680 MPa
ISO 90 degree bends descaled	Elongation A50 mm	40% min
ISO 45 degree bends descaled		
Concentric reducer		
Equal tee polished		
Equal tee descaled		
Pulled tee polished		
Pulled tee descaled		
Pulled reducing tee polished		
Pulled reducing tee descaled		
Hinged pipe clips		
Saddle clips (blue insert)	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 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	

Disclaimer

This data is indicative only and as such is not to be relied upon in place of the full specification. In particular, mechanical property requirements vary widely with temper, product and product dimensions. All information is based on our present knowledge and is given in good faith. No liability will be accepted by the Company in respect of any action taken by any third party in reliance thereon.

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