

Simply Bearings Ltd

Authorised Precision Ball and Roller Distributors in the UK

316L Stainless Steel Data Sheet

Properties:

Hardness	25 - 39 HRC	140-160 HB
Density	0.290 lbs/in ³	
Tensile Strength	180,000 psi	
Yield Strength	150,000 psi	

Chemical Make Up %:

Carbon C	0.03 % Max
Chromium Cr	16 - 18 %
Nickel Ni	10 - 14 %
Silicon Si	1.0 % Max
Molybdenum Mo	2 - 3 % Max
Manganese Mn	2.0 % Max
Phosphor P	0.045 % Max
Sulphur S	0.03 % Max

Specification:

Specification	Equivalent Standards
AISI 316L	AFN Z6CND17-11
	DIN X5 Cr Ni Mo 17122
	JIS SUS 316
	Wks 1.4401

Synopsis:

Un-hardened austenitic food grade stainless steel with good corrosion resistance to sea water, dilute nitric, sulphuric and acetic acids, photo chemicals, inks, bleaches, dyes etc. Is drillable / can be machined.

Typical Uses:

Marine and chemical process plant, cutlery and food use.

Attracted to Magnets: No but may show response to magnets after cold working

Available Grades: 50, 100, 500 & 1000

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