

ATLAS BALL & BEARING CO. LIMITED

AISI 316L STAINLESS STEEL BALL DATA SHEET

Attributes

Austenitic, unhardened stainless steel balls have good resistance to corrosion from sea water, dilute nitric, acetic and sulphuric acids. Has superior weldability over AISI 316 stainless steel

Specification with equivalents

AISI 316L
BS 970 316S12
DIN 1.4404
AFN Z2CND17-12
UNI X2CrNiMo1712

Chemical Analysis %

C	0.03 max	S	0.03 max
Si	0.20-1.00	Cr	16.50-18.50
Mn	0.50-2.00	Mo	2.00-3.00
P	0.045 max	Ni	10.00-14.00

Typical uses/applications

Components used in marine environments and chemical equipment. Body jewellery.

Mechanical/physical properties

Hardness	260 - 390 Hv, 25 - 39 HRC
Hardness (Annealed)	137 - 185 Hv, 75 - 90 HRB
Tensile strength (0-204° C)	558 MPa
Specific gravity (density)	7.90 g/cm ³ (0.288 lb/in ³)
Melting point	1399° C
Modulus of elasticity	193 x 10 ³ MPa in tension
Magnetic Permeability	200 Oersteds (Cold worked)

Whilst every care has been taken we cannot accept liability for any errors contained within this data sheet.

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