

ATLAS BALL & BEARING CO. LIMITED

AISI 316 STAINLESS STEEL ROLLER DATA SHEET

Attributes

Austenitic, unhardened stainless steel balls have good resistance to corrosion from sea water, dilute nitric, acetic and sulphuric acids.

Specification with equivalents

AISI 316
BS 970 316S16
DIN 1.4401
AFN Z6CND17-12
UNI X5CrNiMo1712
UNS S31600

Chemical Analysis %

C	0.07 max	S	0.03 max
Si	0.20-1.00	Cr	16.00-18.00
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.

Mechanical/physical properties

Hardness	260 - 390 Hv, 25 - 39 HRC
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)

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

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