

# ATLAS BALL & BEARING CO. LIMITED

## AISI 316 STAINLESS STEEL BALL DATA SHEET

### Attributes

Austenitic, unhardened stainless steel balls that 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 <sup>3</sup> (0.288 lb/in <sup>3</sup> )
Melting point	1399° C
Modulus of elasticity	193 x 10 <sup>3</sup> MPa in tension
Magnetic Permeability	200 Oersteds (Cold worked)

[www.atlasball.co.uk](http://www.atlasball.co.uk)

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

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