

# ATLAS BALL & BEARING CO LIMITED

## HASTELLOY® C276 BALL DATA SHEET

### Attributes

Nickel-Molybdenum-Chromium Alloy with the addition of Tungsten has excellent corrosion resistance in a wide range of corrosive media. Especially resistant to pitting and crevice corrosion.

### Specification with equivalents

Hastelloy® C276  
Inconel® C276  
UNS N10276  
DIN 2.4819

### Chemical Analysis %

Ni	Balance	Mn	1.00 max
Mo	15.0 – 17.0	C	0.01 max
Cr	14.5 – 16.5	V	0.35 max
Fe	4.00 – 7.00	P	0.04 max
W	3.00 – 4.50	S	0.03 max
Co	2.50 max	Si	0.08 max

### Typical uses/applications

Oil & Gas and chemical processing, pollution control, check valves in harsh environments.

### Mechanical/physical properties

Hardness	350-480 Hv
Tensile strength	1300-1600 Mpa
Approx service temperature	-200 to +400° C
Specific gravity (density)	8.89 g/cm <sup>3</sup> (0.321 lb/in <sup>3</sup> )
Melting point	1370° C
Coefficient of Expansion	11.2 μm/m·°C (20-100° C)
Modulus of rigidity	78.6 kN/mm <sup>2</sup>
Modulus of elasticity	205.5 kN/mm <sup>2</sup>
Poisson's Ratio	0.307

### Corrosion Data

Available on application

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

Hastelloy is a trade name of Haynes International

Inconel is a trade name of Special Metals Group of Companies

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

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