

# ATLAS BALL & BEARING CO LIMITED

## HASTELLOY® X BALL DATA SHEET

### Attributes

Hastelloy X is a Nickel-Chromium-Molydenum alloy with an exceptional combination of oxidation resistance, ease of fabrication and high temperature strength. It has also been found to be exceptionally resistant to stress corrosion cracking in petrochemical applications

### Specification with equivalents

Hastelloy® X  
DIN 2.4665  
UNS N06002

### Chemical Analysis %

Ni	Bal	W	0.6
Cr	22	C	0.10
Fe	18	Mn	1 max
Mo	9	Si	1 max
Co	1.5	B	0.008 max

### Typical uses/applications

Aircraft, furnace and chemical process components

### Mechanical/physical properties

Hardness	350-480 Hv (est)
Tensile strength	1350-1550 Mpa
Specific gravity (density)	8.22 g/cm <sup>3</sup> (0.297 lb/in <sup>3</sup> )
Melting range	1260-1355° C
Coefficient of Expansion	13.9µm/m·°C (20-100°C)
Modulus of rigidity	77.6kN/mm <sup>2</sup>
Modulus of elasticity	205 kN/mm <sup>2</sup>

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