

# ATLAS BALL & BEARING CO LIMITED

## HASTELLOY® C2000 BALL DATA SHEET

### Attributes

Resistant to an extensive range of corrosive chemicals including sulphuric, hydrochloric & hydrofluoric acids  
Superior pitting resistance and crevice corrosion resistance to Hastelloy C-276  
Excellent corrosion resistance to reducing media  
Good oxidising resistance

### Specification with equivalents

W.Nr 2.4675  
UNS N06200

### Chemical Analysis %

Ni	Balance	Mn	0.50 max
Cr	22.0-24.0	Al	0.50 max
Mo	15.0-17.0	Si	0.08 max
Fe	3.00 max	P	0.025 max
Co	2.00 max	S	0.010 max
Cu	1.30-1.90	C	0.010 max

### Typical uses/applications

Chemical process reactors,  
Heat exchangers,  
Pharmaceutical industry reactors  
Flue gas desulphurization systems.

### Mechanical/physical properties

Hardness	350-480 Hv
Tensile strength	1300-1600 Mpa
Approx service temperature	-200 °C to +400 °C
Specific gravity (density)	8.5 g/cm <sup>3</sup> (0.307 lb/in <sup>3</sup> )
Melting point	1399°C*
Coefficient of Expansion	12.4 µm/m°C (20-100°C)
Modulus of rigidity	79 kN/mm <sup>2</sup>
Modulus of elasticity	206 kN/mm <sup>2</sup>

### Corrosion Data

Available on application