

ATLAS BALL & BEARING CO LIMITED

INCONEL® 600 BALL DATA SHEET

Attributes Nickel-Chromium alloy with resistance to oxidation and corrosion at high temperatures.

Specification with equivalents Inconel® 600
Alloy 600
UNS N06600
DIN 2.4816

Chemical Analysis %

Ni	72.0 min	Mn	1.00 max
Fe	6.0 – 10.0	C	0.10 max
Cr	14.0 - 17.0	Si	0.50 max
Ti	0.40 max		

Typical uses/applications

Furnace components, chemical and food processing and nuclear engineering.

Mechanical/physical properties

Hardness	280 – 360 Hv
Tensile strength	600 – 1200 Mpa
Approx service temperature	-200 to +330° C
Specific gravity (density)	8.47 g/cm ³ (0.306 lb/in ³)
Melting point	1413° C
Coefficient of Expansion	13.3µm/m·°C (20-100°C)
Modulus of rigidity	75.6kN/mm ²
Modulus of elasticity	206 kN/mm ²
Magnetic properties	Non magnetic

www.atlasball.co.uk

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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