

ATLAS BALL & BEARING CO LIMITED

INCONEL® 601 BALL DATA SHEET

Attributes

Nickel-Chromium alloy with an addition of Aluminium to give outstanding resistance to oxidation and other forms of high temperature corrosion.

Specification with equivalents

Inconel® 601
Alloy 601
UNS N06601
DIN 2.4851

Chemical Analysis %

Ni	58.00-63.00	Mn	1.00 max
Cr	21.00-25.00	C	0.10 max
Al	1.00-1.70	Si	0.50 max
Cu	1.00 max	S	0.015 max
Fe	Bal		

Typical uses/applications

Furnace components, chemical and food processing and nuclear engineering.

Mechanical/physical properties

Hardness
Tensile strength
Approx service temperature
Specific gravity (density)
Melting point
Coefficient of Expansion
Modulus of rigidity
81.2kN/mm², 11777 ksi
Modulus of elasticity
206.5 kN/mm², 29951 ksi
Magnetic properties

280 – 360 Hv	27-37 HRC
1200-1450 Mpa	174-210 ksi
-200 to +1000° C	, -330 to +1830° F
8.11 g/cm ³	0.293 lb/in ³
1411° C	2572° F
13.3µm/m.°C 20-100°C	7.6 x 10 ⁻⁶ in/in F 73-212° F

Non magnetic

www.atlasball.co.uk