

ATLAS BALL & BEARING CO LIMITED

INCOLOY® 800 BALL DATA SHEET

Attributes

This Nickel-Iron-Chromium alloy has good strength and excellent resistance to oxidation and carburization in high temperature atmospheres

Specification with equivalents

Incoloy 800
UNS N08800
DIN 1.4876
Nicrofer 800
Pyromet 800
Nicrofer 3220

Chemical Analysis %

Ni	30.00-35.00	C	0.10 max
Cr	19.00-23.00	Mn	1.50 max
Co	2.00 max	Si	1.00 max
Ti	0.15-0.60	Cu	0.75 max
Al	0.15-0.60	S	0.015 max
Fe	Bal		

Typical uses/applications

Heat exchangers

Mechanical/physical properties

Hardness	240-350 Hv (est)
Tensile strength	800-1100 Mpa
Specific gravity (density)	7.94 g/cm ³ (0.287 lb/in ³)
Melting range	1357-1385° C
Coefficient of Expansion	14.4µm/m·°C (20-100°C)
Modulus of rigidity	78.9kN/mm ²
Modulus of elasticity	196.5 kN/mm ²

www.atlasball.co.uk