

ATLAS BALL & BEARING CO LIMITED

HASTELLOY® C4 BALL DATA SHEET

Attributes Nickel-Molybdenum-Chromium Alloy with outstanding high-temperature stability as evidenced by high ductility and corrosion resistance even after aging in the 649 to 1038°C range. C4 also has excellent resistance to stress-corrosion cracking and to oxidising atmospheres up to 1038°C

Specification with equivalents Hastelloy® C4
Inconel® C4
UNS N06455
DIN 2.4610

Chemical Analysis %

Ni	Balance	Mn	1.00 max
Mo	14.00-17.00	C	0.01 max
Cr	14.00-18.00	P	0.025 max
Fe	3.00 max	S	0.01 max
Ti	0.70 max	Si	0.08 max
Co	2.00 max		

Typical uses/applications Chemical processing

Mechanical/physical properties

Hardness	350-480 Hv
Tensile strength	1300-1500 MPa
Approx service temperature	-200 to +400°C
Specific gravity (density)	8.64g/cm ³ (0.312lb/in ³)
Melting point	1399°C
Coefficient of Expansion	10.8µm/m·°C(20-100°C)
Modulus of rigidity	81.2kN/mm ²
Modulus of elasticity	212.4kN/mm ²

Corrosion Data Available on application