

ATLAS BALL & BEARING CO LIMITED

INCONEL® 725 BALL DATA SHEET

Attributes

Inconel 725 is a Nickel-Chromium-Molydenum alloy that is highly resistant to corrosion and is age hardenable for extremely high strength. It has similar corrosion resistance as Inconel 625 but in its age hardened form it has twice the strength of annealed Inconel 625

Specification with equivalents

Inconel 725
UNS N07725

Chemical Analysis %

Ni	55.0-59.0	C	0.03 max
Cr	19.0-22.5	Mn	0.35 max
Mo	7.0-9.5	Si	0.20 max
Nb	2.75-4.0	Ph	0.015 max
Ti	1.0-1.7	S	0.010 max
Al	0.35 max	Fe	Bal

Typical uses/applications

Oil and Gas and marine components

Mechanical/physical properties

Hardness	300-400 Hv (est)
Tensile strength	1034-1300 Mpa
Yield Strength	827-1034 Mpa
Specific gravity (density)	8.31 g/cm ³ (0.300 lb/in ³)
Melting range	1271-1343° C
Coefficient of Expansion	13.0µm/m·°C (20-100°C)
Modulus of rigidity	78kN/mm ²
Modulus of elasticity	204 kN/mm ²
Poissons Ratio	0.31

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