

ATLAS BALL & BEARING CO LIMITED

INCOLOY® A-286 BALL DATA SHEET

Attributes

This age hardenable Iron-Nickel-Chromium alloy is designed for applications requiring high strength and good corrosion resistance at temperatures up to 700° C

Specification with equivalents

Incoloy A-286
UNS S66286
DIN 1.4944, 1.4980
Cronifer 1525 Ti
Superimphy 286
Pyromet A286
Udimet A286

Chemical Analysis %

Ni	24.00-27.00	C	0.03-0.08
Cr	13.50-16.00	Mn	1.00-2.00
Mo	1.00-1.50	Si	0.50 max
Pb	0.005 max	Cu	0.50 max
Ti	1.90-2.30	S	0.015 max
Al	0.35 max	P	0.02 max
V	0.10-0.50	B	0.003-0.01
Co	1.00 max	Fe	Bal

Typical uses/applications

Aerospace applications

Mechanical/physical properties

Hardness	350-450 Hv (est)
Tensile strength	1300-1500 Mpa
Specific gravity (density)	7.94 g/cm ³ (0.287 lb/in ³)
Melting point	1430° C
Coefficient of Expansion	16.4µm/m·°C (20-100°C)
Modulus of rigidity	71.5kN/mm ²
Modulus of elasticity	205 kN/mm ²

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