

ATLAS BALL & BEARING CO LIMITED

MP35N® BALL DATA SHEET

Attributes

An age hardenable Nickel-Cobalt base alloy that has a unique combination of properties – ultra high strength, toughness, ductility and outstanding corrosion resistance.

Specification with equivalents

MP35N
UNS R30035
DIN 2.4999

Chemical Analysis %

Ni	33.00-37.00	C	0.025 max
Cr	19.00-21.00	Mn	0.15 max
Mo	9.00-10.50	Si	0.15 max
Fe	1.00 max	P	0.015 max
Ti	1.00 max	S	0.01 max
Co	Bal		

Typical uses/applications

Medical devices

Mechanical/physical properties

Hardness	520-600 Hv
Tensile strength	1400-2200 Mpa
Specific gravity (density)	8.43 g/cm ³ (0.304 lb/in ³)
Melting point	1440° C
Coefficient of Expansion	12.8µm/m·°C (20-100°C)
Modulus of rigidity	80.7kN/mm ²
Modulus of elasticity	234 kN/mm ²

www.atlasball.co.uk