

Simply Bearings Ltd

Authorised Precision Ball and Roller Distributors in the UK

AISI 52100 Chrome Steel Needle Roller Data Sheet

Properties:

Hardness	60-67 HRC	700-900 HV
Density	0.283 lbs /in ³	
Tensile Strength	325,000 psi	
Yield Strength	295,000 psi	

Chemical Make Up %:

Carbon C	0.95 - 1.10 %
Chromium Cr	1.30 - 1.60 %
Manganese Mn	0.25 % Max
Silicon Si	0.15 - 0.30 %
Phosphor P	0.03 % Max
Sulphur S	0.025 % Max

Specification:

Specification	Equivalent Standards
AISI 51200	EN31
	DIN100C6
	AFN100C6
	UNI100C6
	BS535A99
	W1.3505
	BS534A99
	JIS G4805 SUJ2

Synopsis:

Oil hardened steel roller typically used for needle bearing manufacture. Has high hardness capability and excellent deformation and wear resistance. Vacuum degassed and uniformly through hardened in electric furnaces.

Typical Uses:

Needle Bearing Manufacture, transmission parts, pivots, precision shafts, gauges.

Attracted to Magnets: Yes

Available Grades: 2, 5

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