

Simply Bearings Ltd

Authorised Precision Ball and Roller Distributors in the UK

AISI 52100 Chrome Steel 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 balls typically used for bearing manufacture. Has high hardness capability and excellent deformation and wear resistance. Vacuum degassed and uniformly through hardened in electric furnaces.

Typical Uses:

Bearing Manufacture, CV joints, ball screws, gauges.

Attracted to Magnets: Yes

Available Grades: 5, 10, 25, 50, 100, 500, 1000, 2000

Simply Bearings Ltd ~ Halton House, Greenfold Way, Leigh, Lancashire, WN7-3XJ
Tel 01942 269 837 Fax 01942 665 969

Whilst every effort has been made to ensure the accuracy of the information we have supplied in this document we accept no liability should there be any errors.