

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

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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.