

ATLAS BALL & BEARING CO. LIMITED

CHROME STEEL BALL DATA SHEET

Attributes

Vacuum degassed chrome steel balls offer high hardness and excellent wear properties. This material is used for precision bearing manufacture.

Specification with equivalents

BS 534A99/535A99
EN 31
AISI 52100
DIN 1.3505
AFNOR 100C6
UNI 100Cr6
JIS SUJ-2

Chemical Analysis %

C	0.95-1.10	Si	0.15-0.35
Mn	0.25-0.45	Cr	1.20-1.60
P	0.03 max	S	0.025 max
Si	0.05 max		

Typical uses/applications

Precision bearings, gauges, ball transfer units, ball screws, slides, constant velocity joints.

Grades available

G5, G10, G25, G100, G200

Mechanical/physical properties

Hardness	HRC 60-67, 700-900 Hv
Tensile strength	228 kgf/mm ²
Yield strength	207 kgf/mm ²
Max. operating temp.	150 ⁰ C
Specific gravity (Density)	7.849 g/cm ³ (0.283 lb/in ³)
Min. crushing load (kgs)	85.9 D ^{1.773} (D = dia. in mm)

Whilst every care has been taken we cannot accept liability for any errors contained within this data sheet.

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