

ATLAS BALL & BEARING CO. LIMITED

CHROME STEEL ROLLER DATA SHEET

Attributes

Vacuum degassed chrome steel rollers 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, pins, slides, steering systems, tools

Grades available

G2, G5

Mechanical/physical properties

Hardness	HRC 58-65, 653-832 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)

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

Issue 1 dated 04.03.08