

ATLAS BALL & BEARING CO LIMITED

BERYLLIUM COPPER BALL DATA SHEET

Attributes Good wear resistance, with high mechanical properties and hardness. Good electrical and thermal conductivity. Non sparking.

Specification with equivalents

BS	CB101
DIN	2.1247
UNS	C17200

Chemical Analysis %

Be	1.70-1.90	Co+Ni	0.5 max
Cu	Bal		

Typical uses/applications Bearings, load bearing contact applications

Grades available G50, G100

Mechanical/physical properties

Hardness	40-45 HRC, 390-450 Hv
Tensile strength	1200-1600 Mpa
Specific gravity (density)	8.25 g/cm ³ (0.298 lb/in ³)
Melting point	980° C
Coefficient of Expansion	17.8µm/m·°C (20-100°C)
Modulus of elasticity	123 kN/mm ²
Thermal conductivity	106 W/m.K at 20° C
Approx. service temperature	up to 200° C
Magnetic properties	Non magnetic

www.atlasball.co.uk/

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

Issue 2: Dated 14.06.2012