

ATLAS BALL & BEARING CO. LIMITED

PHOSPHOR BRONZE BALL DATA SHEET

Attributes Tough non-magnetic, good electrical conductivity and corrosive resistance to water, steam, mineral oils and petrol. Unstable in acids and alkalis.

Specification with equivalents	BS 2870	PB102	PB104
	ISO	CuSn5	CuSn8
	Din		2.1030
	UNS	C51000	C52100

Chemical Analysis %	PB102 Cu 95, Sn 5, P 0.003
	PB104 Cu 92, Sn 8, P 0.003

Typical uses/applications	Non return/check valves, electrical conductors
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Grades available	G200, G500, G1000
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Mechanical/physical properties (PB102 unless marked)

Hardness	200-220 HB
Tensile strength	650 Mpa
Modulus of Elasticity	121 Gpa
Electrical Resistivity	$0.096 \times 10^{-6} \Omega \cdot m$
Thermal conductivity	63 W/m.K at 20° C
Specific gravity	PB102 8.85 PB104 8.80
Magnetic properties	Non magnetic