

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
EN	CW451K	CW453K
Din		2.1030
UNS	C51000	C52100

Chemical Analysis %

	Cu	Sn	P
PB102	95%	5%	0.003%
PB104	92%	8%	0.003%

Typical uses/applications

Non return/check valves, electrical conductors

Grades available

G200, G500, G1000

Mechanical/physical properties (PB102 unless marked)

Hardness	200-220 HB
Tensile strength	650 Mpa
Modulus of Elasticity	121 Gpa
Electrical Resistivity	$0.096 \times 10^{-6} \Omega.m$
Thermal conductivity	63 W/m.K at 20°C
Specific gravity	PB102 8.85g/cm ³ PB104 8.80g/cm ³
Magnetic properties	Non magnetic
Melting Point	930°C

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

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