

Ph 1300 738 014

www.pacificbronze.com.au

MATERIAL DATA SHEET

PB1 BRONZE - GRADE PBPB1

Commonly known as:- PB1; Phosphor Bronze 90/10

Typical Applications: Good machining properties, high strength and good corrosion Resistance make this bronze suitable for bearings requiring good impact resistance, gears and worm wheels with high loads and speeds

Chemical Composition %

Element		Nominal
Copper	Cu	Balance
Tin	Sn	11.0 - 13.0
Phosphorus	Р	0.05 - 0.4
Iron	Fe	0.10 max
Aluminium	Al	0.01 max
Nickle	Ni	0.10 max
Lead	Pb	0.25 max
Zinc	Zn	0.05 max
Other		0.60 max

Mechanical Properties

Ultimate Tensile Strength 360 MPa minimum

Yield Strength 170 MPa

Elongation 10 %

Nominal Hardness 100 – 150 BHN

Machinability 30 % (free machining brass = 100%)

Similar Standards:- BS 1400 -PB1; AS1565 90710; ASTM B505; B271 C90700; SAE 65; JIS

H5113-PBC2C

The information contained in this website is provided by Pacific Bronze Pty Ltd and while we endeavour to keep the information up to date and correct, does not offer a guarantee of accuracy, completeness, reliability, suitability or availability. Pacific Bronze Pty Ltd is not liable for any consequences that result from the use of this information.