

NON-FERROUS METALS

PHOSPHOR BRONZE to BS 1400: PB2

PB2 Phosphor Bronze, offering good shock resistance, coupled with good strength and machinability, plus good corrosion resistance.

TYPICAL APPLICATIONS:

Heavy duty gears, bearings, bushes, worm wheels, general engineering components requiring good strength coupled with high shock resistance.

PRODUCTION RANGE:

Continuous Cast:	Solid & Hollow
Outside diameter	12mm – 305mm
Inside diameter	12mm – 254mm
Length	305mm – 3100mm
In multiples of	305mm – 1000mm
Round/hexagon/octagon	
Rectangular:	Solid only

Centrifugal Cast:	Hollow only
Outside diameter	330mm – 560mm
Inside diameter	175mm – 500mm
Length	305mm – 1000mm

NB: Smaller I/D produced to order

CHEMICAL COMPOSITION

Copper	(Cu)	Remainder
Tin	(Sn)	11 - 13%
Zinc	(Zn)	0.30% max
Nickel	(Ni)	0.50% max
Lead	(Pb)	0.25% max
Phosphorus	(P)	0.15 – 0.8%
Aluminium	(Al)	0.005% max
Iron	(Fe)	0.15% max

RELATED SPECIFICATIONS:

AS 1565-1985	C90810
AS 1565-1974	907C
SAE	65
UNS	C90800

Electrical conductivity 9%

Freezing range 920 - 980°C (approx.)

OTHER:

Activity	Rating
Machinability	2
Pressure Tightness	3
Weldability (Mig)	3

1–4 in decreasing order of merit

TYPICAL MECHANICAL PROPERTIES - for guidance only

Casting	0.2% Proof Stress MPa	Tensile Strength MPa	Elongation %	Hardness HB
Centrifugal	170 min	310 min	5 min	100 min
Continuous	170 min	270 min	3 min	100 min

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