



Tel : (0044) (0)1384 868080 Fax : (0044) (0)1384 482088

Email : sales@ppnonferrous.co.uk

PB2 is a phosphor bronze with a higher tin content than PB1, which means it has excellent resistance to wear.

As a result of these properties, PB2 is an ideal material for the manufacture of components such as gears and heavy sliding or reciprocating loads.

PB2 is available in bar and tube in the following sizes...

- **Tube from 1" OD – 16" OD**
- **Bar from ½" dia – 13" dia**

Chemical and Physical Properties

Typical chemical composition

<i>Elements</i>	<i>Min %</i>	<i>Max %</i>
Al		0.005
Cu	Remainder	
Fe		0.15
Ni		0.50
P	0.15	0.8
Pb		0.25
S		0.05
Sb		0.20
Si		0.005
Sn	11.0	13.0
Zn		0.30

Typical Mechanical Properties

Property/unit	Condition	Temp	Min	Max
0.2% Proof Stress (N/mm²)	Sand Cast	RT	130	
Tensile Strength (N/mm²)	Sand Cast	RT	220	
Elongation in 5.65√Cross Sectional Area	Sand Cast	RT	3	
Brinell Hardness (HB)	Sand Cast	RT	75	
0.2% Proof Stress (N/mm²)	Chill Cast	RT	170	
Tensile Strength (N/mm²)	Chill Cast	RT	270	
Elongation in 5.65√Cross Sectional Area	Chill Cast	RT	3	
Brinell Hardness (HB)	Chill Cast	RT	100	
0.2% Proof Stress (N/mm²)	Continuous	RT	170	
Tensile Strength (N/mm²)	Continuous	RT	310	
Elongation in 5.65√Cross Sectional Area	Continuous	RT	5	
Brinell Hardness (HB)	Continuous	RT	100	
0.2% Proof Stress (N/mm²)	Centrifugal	RT	170	
Tensile Strength	Centrifugal	RT	270	



Tel : (0044) (0)1384 868080 Fax : (0044) (0)1384 482088

Email : sales@ppnonferrous.co.uk

(N/mm²)				
Elongation in 5.65√Cross Sectional Area	Centrifugal	RT	3	
Brinell Hardness (HB)	Centrifugal	RT	100	

Tolerances

OD up to and including 4" + 1/32" - 0

Above 4" + 1/16 - 0

Above 12" + 3mm - 0

ID up to and including 4" - 1/32" + 0

Above 4" - 1/16" + 0

Above 12" - 3mm + 0

The information above is based on our current knowledge and is given in good faith; however the company will accept no liability in respect of any third party reliance thereon.