

PB2

Product Datasheet



Phosphor Bronze

Service. Quality. Value.

Gear Bronze

PB2 benefits from excellent wear resistance with good machinability.

With increased tin content when compared to PB1, **PB2 phosphor bronze alloy** benefits from excellent wear resistance. The product offers high strength and good machining characteristics. Good corrosion resistance is also a feature, particularly in saltwater and brine environments. Often referred to as a 'gear bronze', PB2 finds typical use in applications such as pump and valve components and bearings which are subject to medium to high loads and speeds.

The alloy also offers good resistance to pounding and impact loading.



Key Features

- Excellent wear resistance
- Good corrosion resistance
- High strength
- Good machinability
- High load bearing

Applications

- Gears
- Bearings
- Thrust washers
- Pump and valve components
- Heavy sliding applications

Chemical Composition (weight %)

	Pb	Zn	Ni	P	Sn	Cu	
Min	0.012				11.0		
Max	0.02	0.3	0.5	0.15	13.0	Rem	

Mechanical Properties (typical)

Tensile Strength	Elongation (%)	Brinell Hardness	Modulus of Elasticity (lbf/m ² x 106)
220 - 230 N/mm ²	7	69	12

PB2 is available in rod, bar and tube.

UK Service Centres:

Smiths Belfast **02895 908 897**
Smiths Biggleswade **01767 604 704**
Smiths Birmingham **0121 728 4940**
Smiths Bristol **0117 971 2800**
Smiths Chelmsford **01245 466 664**
Smiths Gateshead **0191 469 5428**
Smiths Horsham **01403 261 981**

Smiths Leeds **0113 307 5167**
Smiths Manchester **0161 794 8650**
Smiths Norwich **01603 789 878**
Smiths Nottingham **0115 925 4801**
Smiths Redruth **01209 315 512**
Smiths Verwood **01202 824 347**
Main Office **0845 527 3331**

Quality & Testing:



www.smithmetal.com info@smithmetal.com

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