



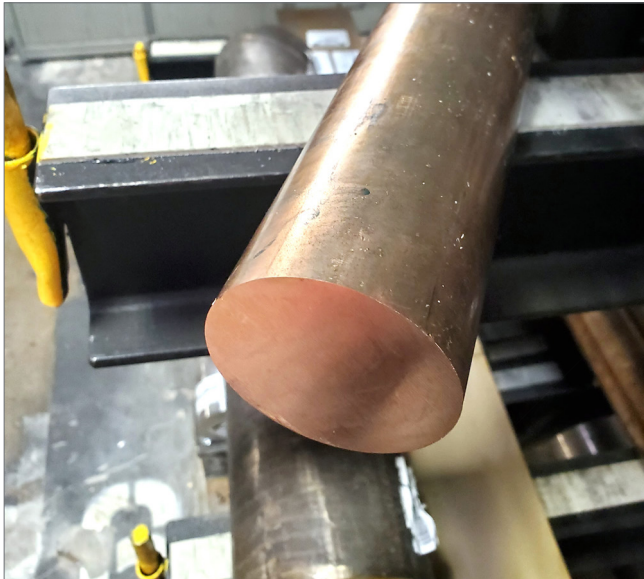
# THAMES

## STOCKHOLDERS

# PB104

PHOSPHOR BRONZE ALLOY

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## Product Overview

**PB104** is a high-performance wrought phosphor alloy that is suitable for more demanding applications and offers high mechanical properties.

The product benefits from various positive performance characteristics, including excellent wear resistance, superior corrosion resistance and good cold formability. Other attractive features include good spring capabilities and good resistance to shock loading. The alloy's bearing properties are exceptional and represent an excellent choice for demanding marine applications.

## Availability:

- Round bar

## Applications

- Shafts, spindles and bearing components
- High-performance gears & engine valve guides
- Aerospace & marine fasteners
- Pump components

## Key Features

- Superior corrosion resistance
- Excellent wear resistance
- Exceptional bearing properties
- High mechanical properties

## \* Chemical Composition (weight, %)

	Cu	Sn	P	Zn	Ni	Fe	Pb	Total Impurities
Min.	Rem	7.50	0.02					
Max.	Rem	9.00	0.40	0.30	0.30	0.10	0.05	0.30

\* Properties as per BS 2874

## \* Mechanical Properties

Proof Stress	360 MPa min.
Ultimate Tensile Strength	500 MPa min.
Elongation (%)	18% min

\* Properties as per BS 2874 (18-40mm)

## Physical Properties

Density	8.8 g/cm <sup>3</sup>
Melting Point	1040° C
Modulus of Elasticity	105,000 N/mm <sup>2</sup>
Thermal Conductivity	46 W/m° C
Electrical Resistivity	12% IACS



## Thames Stockholders

Unit 5W, Woodall Road, Redburn Industrial Estate  
Ponders End, Enfield, Middlesex EN3 4LQ

Tel: +44 (0)20 8805 3282



SCAN ME



sales@thamesstock.com



www.thamesstock.com

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