



# Adinath

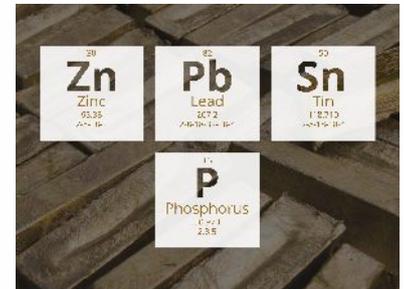
Create, Enhance & Sustain

## BS 1400 PB-1 : PHOSPHOR BRONZE

### Specification Sheet

#### DESCRIPTION

Pb1 is a copper based alloy with 10-12% Tin content. The high content of tin imparts a very good corrosion resistance in marine environments specially to seawater and brine, making it suitable for pump and valve components. PB1 is generally suitable for machining but is slightly tougher than leaded bronze.



#### CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Zn	Pb	Sn	P
Min (%)	Balance	-	-	-	-	-	10.00	0.50
Max (%)		0.01	0.10	0.10	0.05	0.25	12.00	1.20

Note: Ni includes Co; Cu+ named elements >= 99.5%; Unless otherwise noted, single values represent maximums.

#### COMPARATIVE SPECIFICATIONS

UNS: C90700	CuSn10P	CB481K	C91700
-------------	---------	--------	--------

#### FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Excellent	Good	20

#### CASTING CHARACTERISTICS

Casting Attribute	Level
Casting Yield	Medium
Drossing	Low
Fluidity	High
Gassing	Med-High

# BS 1400 PB-1 : PHOSPHOR BRONZE

## TYPICAL USES

Product Category	Product	Reason
 <p>Industrial:</p>	<p>Bearings, Bearings for Heavy Loads and Relatively Low Speeds, Gear Boxes, Gears, Restaurant Equipment, Speed Reducers, Valve Bodies, Worm Gears, Worm Wheels.</p>	<p>Corrosion Resistance, Low Co-efficient of Friction, Wear Resistance, Moderate Strength, Good Resistance to Corrosion, Good Machinability, Pressure Tight up to 260 C, Appearance, Corrosion Resistance to Fresh Water, Corrosion Resistance to Numerous Environments, Corrosion Resistance to Saline Solutions.</p>

## PACKING

 **ADINATH** manufactures wide range of copper Alloys in the form of **Certified Ingots** weighing from 8-10 kgs each.

 Standard Packaging of **1 Metric Ton** in Wooden Pallet.



# BS 1400 PB-1 : PHOSPHOR BRONZE

## VALUE ADDED SERVICES

### Casting Range



25 Grams to 10 Kgs

### Forging Sizes



50 Grams to 6 Kgs

### Machining Sizes



1 mm to 200 mm

### CONNECT WITH US Adinath Extrusion Pvt. Ltd.

Plot No. 4051-4055,  
Bhagwan Mahavir Swami Marg,  
G.I.D.C., Phase-III, Dared,  
Jamnagar - 361004, Gujarat, India.

+91 7600 55 9243 +91 288 2730868  
sales@adinathextrusion.com,  
marketing@adinathextrusion.com  
www.adinathextrusion.com

