



# Adinath

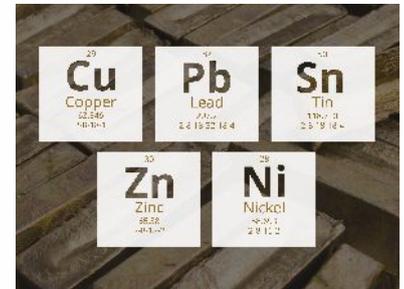
Create, Enhance & Sustain

## C-93800 : LEADED TIN BRONZE

### Specification Sheet

#### DESCRIPTION

C93800 an alloy of Copper-Lead-Tin comes with minor addition of Nickel which enhances the strength and ductility. The composition is notable for its higher content of Lead which is used to improve machinability and bearing strength. C93800 is a preferred choice for pump impellers and bodies used in acid mine water.



#### CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Zn	Pb	Sn	Si	S	Sb	P
Min (%)	75.00	-	-	-	-	13.00	6.30	-	-	-	-
Max (%)	79.00	0.005	0.15	1.00	0.80	16.00	7.50	0.005	0.08	0.80	0.05

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

#### COMPARATIVE SPECIFICATIONS

CDA: C93800	ASTM: B505, B505M	SAE: J461, J462	OTHER: ANTI-ACID METAL SAE 67
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#### FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Good	Poor	80

#### CASTING CHARACTERISTICS

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

# C-93800 LEADED TIN BRONZE

## TYPICAL USES

Product Category	Product	Reason
 <p>Industrial</p>	<p>Acid Resisting Applications, Backs for Lined Journal Bearings for Locomotives, Backs for Lined Journal Bearings for Passenger Cars, Bearings, Freight Car Bearings, General Service Bearings for Moderate Pressure, Industrial Centrifuges, Low Friction, Moderate Pressure Bushings, Machine Parts, Pump Bodies for Acid Mine Water, Pump Impellers for Acid Mine Water, Pumps, Railroad Applications, Railroad Engine Casings, Wearing Material for Rod Bushings, Wearing Material for Shoes, Wearing Material for Wedges.</p>	<p>Corrosion Resistance, Corrosion Resistance to Brackish Water, Corrosion Resistance to Many Industrial Chemicals, Corrosion Resistance to Numerous Environments, Low Coefficient of Friction, Wear Resistance, Anti-Seizing Properties, Thermal Conductivity, Excellent Machinability, Pressure Tightness.</p>
 <p>Marine</p>	<p>Large Bearings for Ships.</p>	<p>Corrosion Resistance, Corrosion Resistance to Brackish Water, Corrosion Resistance to Numerous Environments, Anti-Seizing Properties, Low Coefficient of Friction, Wear Resistance, Good Machinability.</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.



# C-93800 LEADED TIN 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.

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