# Adinath
Create, Enhance & Sustain

C-54400 : PHOSPHOR BRONZE
Specification Sheet

DESCRIPTION

C-54400 is a high graded leaded tin phosphor bronze with a unique composition and often called as the "finest bearing alloy on the market". It is a multi alloy bronze, popular with machinists due to its outstanding properties like extreme ease of machining, high strength, toughness, fine grain structure and low coefficient friction. The alloy is also resistant to fatigue, wear and chemical corrosion.
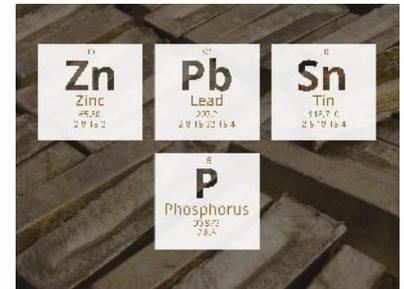
CHEMICAL COMPOSITION

Element	Cu	Fe	Zn	Pb	Sn	P
Min (%)	Balance	-	1.50	3.00	3.50	0.01
Max (%)		0.10	4.50	4.00	4.50	0.50

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

COMPARATIVE SPECIFICATIONS

CDA: C54400	ASTM: B139, B139M	SAE: J461, J463

FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Excellent	Good	80

TYPICAL USES

Product Category	Product	Reason
Electrical:	Electrical Connectors.	Stress Corrosion Cracking Resistance, Machinability, High Endurance Limit, High Strength.

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Product Category	Product	Reason
Industrial:	Bearings, Gears, Pinions, Screw Machine Products, Shafts, Sleeve Bearings, Thrust Bearings, Thrust Washers, Valve Parts.	Corrosion Resistance, Wear Resistance, Good Machinability, Moderate Strength, Fatigue Resistance.

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.

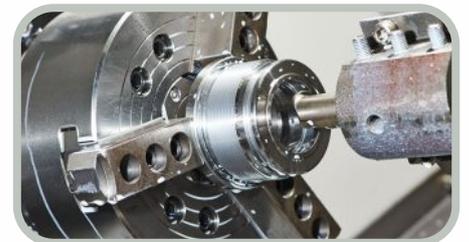## VALUE ADDED SERVICES

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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