



# Adinath

Create, Enhance & Sustain

## BS 1400 : AB-1 Aluminium Bronze Specification Sheet

### DESCRIPTION

AB -1 Alloy comes with an additional amount of Iron which acts as a grain refiner and small traces of Nickel which helps in Machining. AB -1 alloys are of medium strengths, with good ductility and resistance to shock. AB -1 resists tarnishing and high temperature oxidation. These physical properties remain good at elevated temperatures.



### CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	Oi
Min (%)	Balance	8.50	1.50	-	-	-	-	-	-	-
Max (%)		10.50	3.50	1.00	1.00	0.50	0.05	0.10	0.25	0.30

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

### COMPARATIVE SPECIFICATIONS

AS 1565: C95210	CC331G	CuAl10Fe2	UNS: C95200
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### FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Good	Good	20

### CASTING CHARACTERISTICS

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

# BS 1400 : AB-1 Aluminium Bronze

## TYPICAL USES

Product Category	Product	Reason
 <p>Industrial</p>	Marine, Oil and chemical industry as valve fittings, Pump rods, Bolts, Propellers, Propeller Shafts, Spark plug bodies, Heavy duty bearings, Gear wheels, Worm wheels, Valve seats, Pinions and non-sparking tools.	High strength, Good wear resistance Good corrosion resistance, High resistance to oxidation and Good strength at elevated temperatures.

## 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



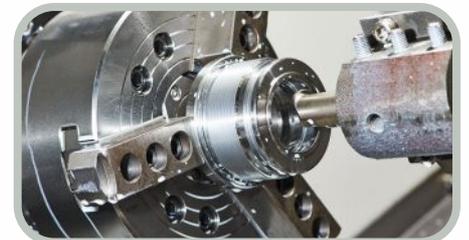
 25 Grams to 10 Kgs

### 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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