



# Adinath

Create, Enhance & Sustain

## HBSC-1:MANGANESE BRONZE/HIGH TENSILE BRASS

### Specification Sheet

#### DESCRIPTION

HBSC1 is a general purpose manganese bronze which possess excellent strength and good machining properties. Additions of Tin, Aluminium, Iron and Manganese makes it suitable for making machinery parts which requires strength and toughness.



#### CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si
Min (%)	55.00	0.50	0.50	-	0.10	33.00	-	-	-
Max (%)	60.00	1.50	1.50	1.00	1.50	42.00	0.40	1.00	0.10

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

#### COMPARATIVE SPECIFICATIONS

CDA: C86500	JIS : H5102
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#### FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Fair	Fair	26

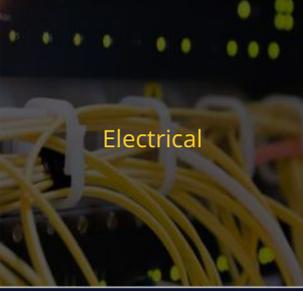
#### CASTING CHARACTERISTICS

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

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## TYPICAL USES

Product Category	Product	Reason
 <p>Automotive</p>	Weld Guns.	Thermal Conductivity, Corrosion Resistance, High Strength.
 <p>Builders Hardware</p>	Brackets.	Corrosion Resistance, High Strength, Toughness.
 <p>Electrical</p>	Electrical Hardware.	Electrical Conductivity, Thermal Conductivity, Corrosion Resistance, High Strength.
 <p>Industrial</p>	Compressors, Forming Dies for Wood Pulp Industry, Frames, Gears, Hooks, Lever Arms, Machinery, Machinery Parts (Substituted for Steel and Malleable Iron), Machinery Parts requiring High Strength, Pressing Dies for Wood Pulp, Struts, Wear Rings for Pressing Dies for Wood Pulp Industry.	Corrosion Resistance, High Strength, Toughness, Wear Resistance, Excellent Machinability (Free Machining), Corrosion Resistance to Fresh Water, Corrosion Resistance to Salt Water, Thermal Conductivity.
 <p>Marine</p>	Boat Parts, Clamps, Covers for Marine Hardware, Propellers for salt and fresh water, Rudders.	Corrosion Resistance, Corrosion Resistance to Salt Water, High Strength, Toughness, Appearance, Corrosion Resistance to Saline Solutions, Ductility.

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## 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



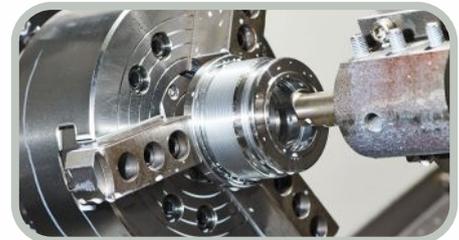
 25 Grams to 10 Kgs

### 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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