



# Adinath

Create, Enhance & Sustain

## HBSC-3:MANGANESE BRONZE/HIGH TENSILE BRASS

### Specification Sheet

#### DESCRIPTION

HBSC3 is a high tensile brass or high strength manganese bronze with good ductility and wearing properties. It has a poor machinability and reasonable corrosion resistance that may be susceptible to dezincification under certain conditions.



#### CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si
Min (%)	60.00	3.00	2.00	-	2.50	22.00	-	-	-
Max (%)	65.00	5.00	4.00	0.50	5.00	28.00	0.20	0.50	0.10

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

#### COMPARATIVE SPECIFICATIONS

CDA: C86200	JIS : H5102
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#### FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Poor	Poor	30

#### 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>Builders Hardware</p>	Brackets, Structural Parts.	Corrosion Resistance, Moderate Strength.
 <p>Fasteners</p>	Screw Down Nuts.	Corrosion Resistance, Wear Resistance, Moderate Strength.
 <p>Industrial</p>	Bushings, Cams, Frames, Gears, High Strength Machine Parts, Hooks, Marine Racing Propellers, Pressing Dies for Wood Pulp, Shafts, Struts, Valve Stems, Wear Rings for Pressing Dies for Wood Pulp Industry, Worm Gears.	Corrosion Resistance, Wear Resistance, Moderate Strength, Thermal Conductivity, Corrosion Resistance to the Atmosphere, Corrosion Resistance to Salt Water.
 <p>Marine</p>	Boat Parts, Clamps, Marine Castings, Rudders.	Corrosion Resistance, Corrosion Resistance to Salt Water, Corrosion Resistance to the Atmosphere, Wear Resistance, Moderate Strength, Corrosion Resistance to the Atmosphere.
 <p>Ordnance</p>	Gun Mounts.	Appearance, Corrosion Resistance, Wear Resistance, Moderate Strength.

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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



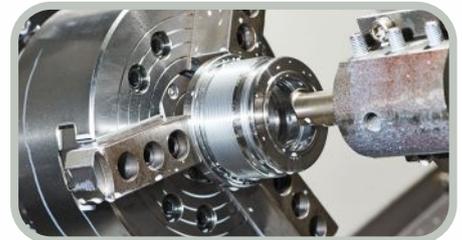
 25 Grams to 10 Kgs

### 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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