



Adinath

Create, Enhance & Sustain

HTB-3:MANGANESE BRONZE / HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

HTB3 is among the hardest of the copper alloys which is used for wear resistance at slow rubbing speeds. It has higher mechanical properties as compared to HTB1 but is not recommended for marine use. HTB3 produces fine swarm while machining but with increased tool wear.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	Oi
Min (%)	55.00	3.00	1.50	-	1.50	Balance	-	-	-	-
Max (%)	-	6.00	3.25	1.00	4.00		0.20	0.20	0.10	0.20

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

COMPARATIVE SPECIFICATIONS

CuZn25Al5Mn4Fe3-C	DIN: CUZN35AL5	ASTM: B505 C86300
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FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Poor	Poor	8

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.	Corrosion Resistance, Wear Resistance, High Strength.
 <p>Electrical</p>	Electrical Components, Switches.	Electrical Conductivity, Thermal Conductivity, Corrosion Resistance, High Strength.
 <p>Fasteners</p>	Screw Down Nuts.	Corrosion Resistance, High Strength.
 <p>Industrial</p>	Bridge Pins, Bushings, Cams, Forming Dies for Wood Pulp Industry, Frames, Gears, Gib, High Strength Machine Parts, Hooks, Hydraulic Cylinder Parts, Large Valve Stems, Propellers, Slow Speed, Heavy Load Bearings, Struts, Wear Rings for Forming Dies for Wood Pulp Industry.	Corrosion Resistance, Wear Resistance, High Strength, Thermal Conductivity.
 <p>Marine</p>	Boat Parts, Clamps, Covers for Marine Hardware, Marine Hardware, Rudders.	Corrosion Resistance, Corrosion Resistance to Salt Water, Wear Resistance, High Strength, Appearance.

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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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