



Adinath

Create, Enhance & Sustain

HBSC-4:MANGANESE BRONZE/HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

HBSC4 is the Japanese standard of Manganese Bronze which is a tough and corrosion resistance alloy that can operate under very high loads and speeds. This alloy is non-heat treatable and intended to use for applications requiring a good combination of outstanding wear characteristics and high strength. It is ideally used for heavy duty construction.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si
Min (%)	60.00	5.00	2.00	-	2.50	22.00	-	-	-
Max (%)	65.00	7.50	4.00	0.50	5.00	28.00	0.20	0.20	0.10

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

COMPARATIVE SPECIFICATIONS

CDA: C86300	JIS : H5102
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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, 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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