



Adinath

Create, Enhance & Sustain

HBSC-2:MANGANESE BRONZE/HIGH TENSILE BRASS

Specification Sheet

DESCRIPTION

Manganese Bronze comes from a family of High Strength Copper Based alloys which include Manganese as the principal alloying element. These alloys generally have higher amount of zinc because of which they are also referred as High Tensile Brass and relatively smaller additions of Iron, Aluminium and Lead. Manganese Bronzes are most commonly used in applications which requires corrosion resistance, anti-seizing properties, coupled with higher strength.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si
Min (%)	55.00	0.50	0.50	-	0.10	30.00	-	-	-
Max (%)	60.00	2.00	2.00	1.00	3.50	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: C86400	JIS : H5102
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FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Fair	Fair	65

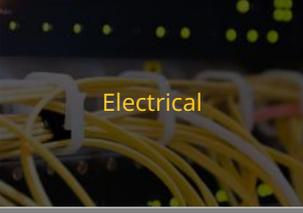
CASTING CHARACTERISTICS

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>	Door hardware for Prison, Window Hardware.	Appearance, Corrosion Resistance, Excellent Machinability (Free Machining), High Strength.
 <p>Consumer</p>	Musical Instruments, Piano Keys.	Appearance, Corrosion Resistance, Resonant Frequency, Damping Capacity, Wear Resistance, Excellent Machinability (Free Machining), High Strength.
 <p>Electrical</p>	Electrical Components, Electrical Equipment, Switches.	Electrical Conductivity, Thermal Conductivity, Corrosion Resistance, High Strength.
 <p>Fasteners</p>	Screw Down Nuts.	Corrosion Resistance, Wear Resistance, High Strength, Moderate Strength.
 <p>Industrial</p>	Bearing Cage Blanks, Bearings, Brackets, Bushings, Cams, Fittings, Lever Arms, Light Duty Gears, Machinery Parts, Propellers, Pump Fixtures, Roller Bearings, Valve Stems.	Corrosion Resistance, Wear Resistance, High Strength, Machinability Good, Excellent Machinability, Corrosion Resistance to Numerous Environments, Ductility.
 <p>Marine</p>	Boat Parts, Covers for Marine Hardware, Marine Fittings, Marine Hardware.	Corrosion Resistance, Corrosion Resistance to Salt Water, Wear Resistance, High Strength, Appearance, Excellent Machinability (Free Machining).
 <p>Plumbing</p>	Fixtures.	Appearance, Corrosion Resistance, Wear Resistance, Excellent Machinability (Free Machining), High 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



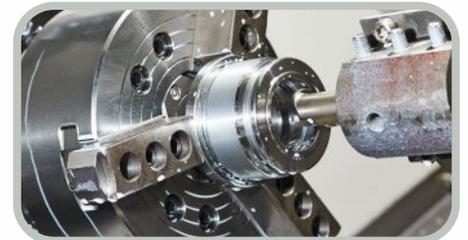
 25 Grams to 10 Kgs

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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