



# Adinath

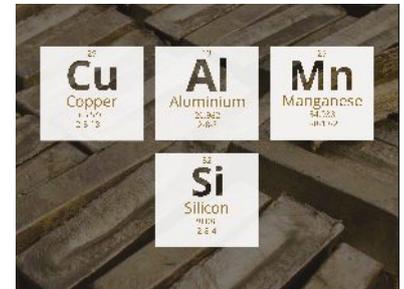
Create, Enhance & Sustain

## CuSi3Mn1 : SILICON BRONZE

### Specification Sheet

#### DESCRIPTION

Silicon Bronzes are copper based alloys with a mixture of other metals like Aluminium, Nickel, Zinc, Lead, Iron and Manganese. It is one of the easiest metals to form/pour. Silicon helps deoxygenate the material which helps to reduce brittleness and increases the strength.



#### CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Mn	Zn	Pb	Si	P	Oi
Min (%)	Balance	-	-	0.70	-	-	2.70	-	-
Max (%)		0.05	0.20	1.30	0.40	0.05	3.20	0.05	0.50

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

#### COMPARATIVE SPECIFICATIONS

UNS: 65500	ASTM B98, B124, B105, B99	CDA: C655
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#### FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Good	Excellent	30

#### TYPICAL USES

Product Category	Product	Reason
Consumer	Sculpture.	Appearance, Corrosion Resistance, Weldability.

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Product Category	Product	Reason
 <p>Electrical</p>	Motors, Rotor Bar, Pole Line Hardware.	Brazability, Electrical Resistivity, Electrical Conductivity, Thermal Conductivity, Corrosion Resistance, High Strength.
 <p>Fasteners</p>	Bolts, Burrs, Clamp, Cotter Pins, Hinges, Nails, Nuts, Rivets, Screws.	Corrosion Resistance, High Strength, Corrosion Resistance to Petrochemicals, Appearance, Formability.
 <p>Industrial</p>	Bearing Plates, Bushings, Butts, Cable, Channels, Chemical Equipment, Doctor Blades, Paper Industry, Heat Exchanger Tubes, Hydraulic Pressure Lines, Kettles, Oil Refinery Plumbing Tube, Piston Rings, Pressure Vessels, Screen Cloth, Screen Plates, Shafting, Tanks, Wear Plates, Welded Pressure Vessels, Welded Tanks.	Corrosion Resistance, Galling Resistance, Wear Resistance, High Strength, Formability, Corrosion Resistance to Fresh Water, Corrosion Resistance to Paper Industry Chemicals, Corrosion Resistance to Salt Water, Non-Sparking, Weldability, Corrosion Resistance to Petrochemicals, Wear Resistance, Moderate to High Strength, Solderability.
 <p>Marine</p>	Hardware, Propeller Shafts.	Appearance, Corrosion Resistance, Corrosion Resistance to Fresh Water, Corrosion Resistance to Salt Water, High Strength, Wear Resistance.

## 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.



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## 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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