



Adinath

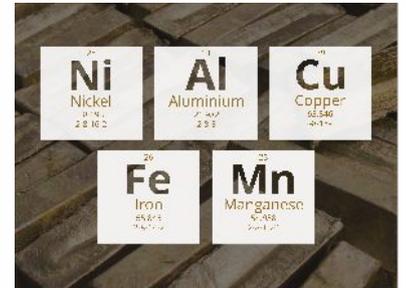
Create, Enhance & Sustain

C63000 : NICKEL ALUMINIUM BRONZE

Specification Sheet

DESCRIPTION

C63000 is the most popular American grade of Nickel Aluminium Bronze. C63000 alloy has a very good galling resistance and also offers a high retention of mechanical properties at elevated temperatures. The addition of Nickel increases the alloy strength without diminishing its excellent ductility, toughness and corrosion resistance.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Sn	Si
Min (%)	Balance	9.00	2.00	4.00	-	-	-	-
Max (%)		11.00	4.00	5.50	1.50	0.30	0.20	0.25

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

COMPARATIVE SPECIFICATIONS

CDA : C63000	ASTM : B150, B150M	SAE: 4640	OTHERS : ALUMINIUM BRONZE
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FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Not Recommended	Fair	30

C63000 : NICKEL ALUMINIUM BRONZE

TYPICAL USES

Product Category	Product	Reason
 <p>Industrial</p>	<p>Aircraft Parts, Balls, Bearings, Bushings, Cams, Condenser Tube for Power Stations and Desalting Units, Corrosion Resistant Articles, Gears, Heat Exchanger Flanges, Hydraulic Bushings for Earth Moving Equipment, Plunger Tips, Pump Parts, Pump Shafts, Shafting, Structural Members, Tanks, Valve Balls, Valve Guides, Valve Seats, Welded Piping Systems.</p>	<p>Corrosion Resistance, Wear Resistance, Impact Resistant, High Strength, Corrosion Resistance to Chemicals, Corrosion Resistance to Non Oxidizing Acids, Corrosion Resistance to Numerous Environments, Corrosion Resistance to Salt Water, Galling Resistance, Resistant to Abrasive Wear, Resistant to Adhesive Wear Toughness, Heavy Load Strength, Thermal Conductivity, Weldability, Impact Resistant, Cavitation Corrosion Resistance, Erosion Corrosion Resistance, Pitting Corrosion Resistance, Resistance to Corrosion by a broad variety of Corrosive Media.</p>
 <p>Marine</p>	<p>Bolts, Nuts, Propellers, Pump Parts, Ship Propellers.</p>	<p>Corrosion Resistance, Corrosion Resistance to Fresh Water, Corrosion Resistance to Numerous Environments, Corrosion Resistance to Salt Water, Impact Resistant, High Strength, Weldability.</p>
 <p>Plumbing</p>	<p>Faucets.</p>	<p>Corrosion Resistance, High Strength.</p>

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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