



Adinath

Create, Enhance & Sustain

CuAl10Fe5Ni5 : NICKEL ALUMINIUM BRONZE

Specification Sheet

DESCRIPTION

CuAl10Fe5Ni5 Alloy can tolerate high loads but as this is a cast alloy and of low integrity, is generally restricted to slow moving parts with good lubrication. This alloy has good wearing qualities and is suitable for elevated temperature use.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Zn	Pb	Sn	Si	Mg
Min (%)	76.00	8.50	4.00	4.00	-	-	-	-	-	-
Max (%)	83.00	10.50	5.50	6.00	3.00	0.50	0.03	0.10	0.10	0.05

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

COMPARATIVE SPECIFICATIONS

BS 1400 : AB2	C95500	CB333G
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FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Good	Fair	50

CASTING CHARACTERISTICS

Casting Attribute	Level
Casting Yield	Low
Drossing	High
Fluidity	Medium
Gassing	Medium

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TYPICAL USES

Product Category	Product	Reason
 <p>Builders Hardware</p>	Window Hardware.	Appearance, Excellent Machinability, High Strength, Corrosion Resistance (Excellent).
 <p>Consumer</p>	Musical Instruments, Piano Keys.	Appearance, Corrosion Resistance (Excellent), Wear Resistance, Excellent Machinability, Resonant Frequency, Damping Capacity, High Strength.
 <p>Electrical</p>	Electrical Hardware.	Electrical Conductivity, Thermal Conductivity, Corrosion Resistance (Excellent), High Strength.
 <p>Fasteners</p>	Stuffing Box Nuts.	Corrosion Resistance (Excellent), Wear Resistance, High Strength.
 <p>Industrial</p>	Air Craft Components, Bearings, Gears, Glands, Hand Gun Recoil Mechanisms, Hot Mill Guides, Landing Gear Parts, Machine Parts, Pickling Equipment, Piston Guides, Pump Fluid Ends, Sewage Treatment Applications, Valve Bodies, Valve Components, Valve Guides, Wear Plates, Welding Jaws, Worms, Worms Wheels.	Corrosion Resistance (Excellent), Wear Resistance, High Strength, Retains Strength at Elevated Temperatures, Toughness, Fatigue Properties, Thermal Conductivity, Machinability Good.
 <p>Marine</p>	Covers for marine hardware, marine applications, marine hardware, ship building.	Appearance, Corrosion Resistance (Excellent, Corrosion Resistance to Salt Water, High Strength, Wear Resistance, Machinability Good.
 <p>Ordnance</p>	Government Fittings.	Corrosion Resistance (Excellent), High Strength, Toughness.

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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



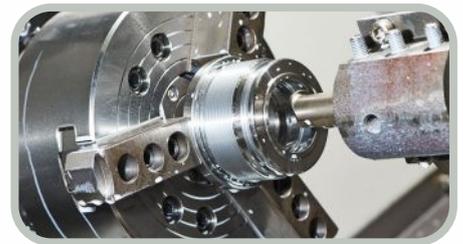
25 Grams to 10 Kgs

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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