



Adinath

Create, Enhance & Sustain

C-95400 Aluminium Bronze

Specification Sheet

DESCRIPTION

C95400 is the most common alloy in the Aluminium Bronze family. With a small addition of Nickel, it provides flexible mechanical properties with heat treatment. C95400 exhibits low rate of scaling in atmospheric conditions, low oxidation rates at higher temperatures and low reactivity with combustion exhaust by products.



CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn
Min (%)	83.00	10.00	3.00	-	-
Max (%)	-	11.50	5.00	1.50	0.50

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

COMPARATIVE SPECIFICATIONS

CDA: 95400	ASTM: B505, B505M	SAE: J461, J462	BS1400: AB1
------------	-------------------	-----------------	-------------

FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Good	Good	60

CASTING CHARACTERISTICS

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

C-95400 Aluminium Bronze

TYPICAL USES

Product Category	Product	Reason
 Automotive	Weld Guns.	Thermal Conductivity, Corrosion Resistance (Excellent), Corrosion Resistance to Numerous Environments, Wear Resistance, Machinability Good, High Strength, Moderate Strength, Retains Strength at Elevated Temperatures.
 Fasteners	Large Hold Down Screws, Nuts.	Corrosion Resistance (Excellent), Machinability Good, High Strength.
 Industrial	Bearing Segments for the Steel Industry, Bearings, Bushings, Gears, Heavily Loaded Worm Gears, High Strength Clamps, Landing Gear Parts, Machine Parts, Pawl, Pickling Hooks, Pressure Blocks for the Steel Industry, Pump Parts, Spur Gears, Valve Bodies, Valve Guides, Valve Seats, Valves, Worm Gears.	Corrosion Resistance (Excellent), Wear Resistance, High Strength, Retains Strength at Elevated Temperatures, Toughness, Machinability Good, Fatigue Properties, Thermal Conductivity, Excellent Machinability, Corrosion Resistance to Acids.
 Marine	Covers for Marine Hardware, Ship Building.	Appearance, Corrosion Resistance (Excellent), Corrosion Resistance to Salt Water, High Strength, Wear Resistance, Machinability Good.
 Ordnance	Government Fittings.	Corrosion Resistance (Excellent), High Strength, Wear Resistance, Excellent Machinability.

C-95400 Aluminium Bronze

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



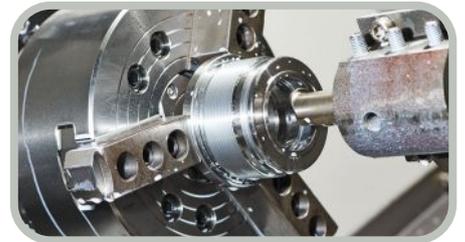
25 Grams to 10 Kgs

Forging Sizes



50 Grams to 6 Kgs

Machining Sizes



1 mm to 200 mm

CONNECT WITH US Adinath Extrusion Pvt. Ltd.

Plot No. 4051-4055,
Bhagwan Mahavir Swami Marg,
G.I.D.C., Phase-III, Dared,
Jamnagar - 361004, Gujarat, India.

+91 7600 55 9243 +91 288 2730868
sales@adinathextrusion.com,
marketing@adinathextrusion.com
www.adinathextrusion.com

