



# Adinath

Create, Enhance & Sustain

## C95800 : NICKEL ALUMINIUM BRONZE

### Specification Sheet

#### DESCRIPTION

C95800 is a highly flexible alloy which yields outstanding wear and galling resistance. Aluminium in conjunction with Iron and Nickel in C95800 acts as a strengthener in these alloys which makes it a preferred choice for Marine Applications. All these Aluminium Bronzes can be heat treated, which further increases their Tensile strength.



#### CHEMICAL COMPOSITION

Element	Cu	Al	Fe	Ni	Mn	Pb	Si
Min (%)	79.00	8.50	3.50	4.00	0.80	-	-
Max (%)	-	9.50	4.50	5.00	1.50	0.03	0.10

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

#### COMPARATIVE SPECIFICATIONS

SAE J461	ASTM : B505, B505M	BS1400:AB2	CC333G	CuAl10Fe5Ni5
----------	--------------------	------------	--------	--------------

#### FABRICATION PROPERTIES

Soldering	Brazing	Machinability Rating
Good	Fair	20

#### CASTING CHARACTERISTICS

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

# C95800 : NICKEL ALUMINIUM BRONZE

## TYPICAL USES

Product Category	Product	Reason
 <p>Fasteners</p>	Stuffing Box Nuts.	Corrosion Resistance (Excellent), Wear Resistance, High Strength.
 <p>Industrial</p>	Bushings, Gears, Machinery, Pickling Equipment, Propeller Blades, Propeller Hub, Shafts, Valve Bodies, Wear Plates, Worm Wheels, Worms.	Corrosion Resistance (Excellent), Wear Resistance, High Strength, Toughness, Fatigue Strength, Thermal Conductivity, Machinability Good.
 <p>Marine</p>	Covers for marine hardware, Valves in contact with sea water, Marine Hardware, Ship Building.	Appearance, Corrosion Resistance (Excellent, Corrosion Resistance to Salt Water, Corrosion Resistance to Fresh Water, High Strength, Wear Resistance, Machinability Good.
 <p>Plumbing</p>	Elbows.	Corrosion Resistance (Excellent), Machinability, Good, High Strength, Retains Strength at Elevated Temperatures.

## 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.



# C95800 : NICKEL ALUMINIUM BRONZE

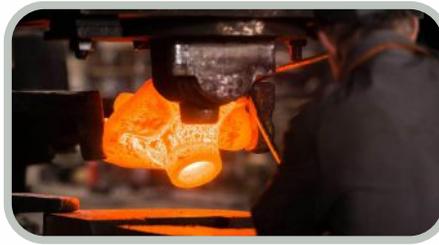
## VALUE ADDED SERVICES

### Casting Range



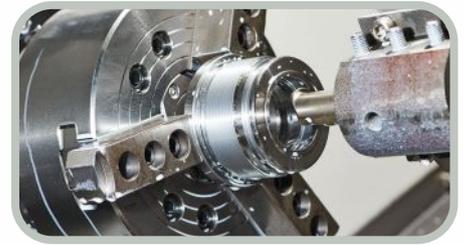
25 Grams to 10 Kgs

### 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

