

## Copper Alloys

## C95800 Bar & Forgings

**Datasheet Updated**  
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### SPECIFICATIONS

US C95800

A nickel aluminum bronze copper casting alloy.

### CHEMICAL COMPOSITION

Element	% Present
Iron (Fe)	3.50 - 4.50
Manganese (Mn)	0.80 - 1.50
Aluminium (Al)	8.50 - 9.50
Nickel (Ni)	4.00 - 5.00
Lead (Pb)	0.00 - 0.03
Silicon (Si)	0.00 - 0.10
Copper (Cu)	Balance

### ALLOY DESIGNATIONS

- CDA 955
- ASTM B-148
- Alloy 9D
- ASTM B-271
- ASTM B-584

### SUPPLIED FORMS

- Bar
- Forgings
- Rod

### APPLICATIONS

- Fasteners
- Industrial applications: Bushings, gears, machinery, pickling equipment, propeller blades, propeller hub, shafts, valve bodies, wear plates, worm wheels, worms
- Marine applications: Covers for marine hardware, marine hardware, ship building, valves in contact with sea water
- Elbows for plumbing applications

### CHARACTERISTICS

- Excellent strength and ductility even at low temperatures
- Good casting qualities
- Excellent shock & wear resistance
- Good machinability
- Good thermal and electrical conductivity
- Suitable for welding
- Exceptional corrosion resistance

### MECHANICAL PROPERTIES

Property	Value
Elongation A50 mm	15 %
Hardness Rockwell B	88 HRB
Tensile Strength	586 MPa

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(1 of 2)

