

# C95300HT

Cast

<b>Product Description:</b>	Aluminum Bronze
<b>Solids:</b>	½" to 9" O.D.
<b>Tubes:</b>	1⅝" to 9" O.D.
<b>Rectangles:</b>	Up to 15"
<b>Standard Lengths:</b>	24"
<b>Shape/Form:</b>	semi-finished, mill stock or near-net shapes, anode, bar stock, billet/bloom, squares, hex, plate, profile or structural shape, flats/rectangular bar

## Typical Uses

<b>Electrical</b>	connectors
<b>Fasteners</b>	stripped nuts
<b>Industrial</b>	welding jaws, pickling hooks, high-strength clamps, valve bodies, pickling baskets, bearing segment for the steel industry, large hold down screws, pressure blocks for the steel industry, gears, cams, high-temperature applications, mining machine parts
<b>Marine</b>	covers for marine hardware, marine equipment

## Similar or Equivalent Specification

CDA	ASTM	Asarcon	SAE	AMS	Federal	Military	Other
C95300	B505 B505M		68B J461 J462		QQ-C-390, G7 QQ-B-671, Class 2	MIL-B-16033, Class 2	Aluminum Bronze 9B

## Chemical Composition

Cu%	Fe%	Al%
86.00 min	0.80- 1.50	9.00- 11.00

Chemical Composition according to ASTM B505/B505M-18

Note: Cu + Sum of Named Elements, 99.0% min. Single values, unless otherwise noted, represent maximums.



## Machinability

Copper Alloy UNS No.	Machinability Rating	Density (lb/in <sup>3</sup> at 68 °F)
C95300	55	0.272

## Mechanical Properties

Tensile Strength, min		Yield Strength, at 0.5% Extension Under Load, min		Elongation, in 2 in. or 50 mm min	Brinell Hardness (3000 kg load)	Remarks
ksi	MPa	ksi	MPa	%	typical BHN	
80	552	40	276	12	132	Heat Treated

Mechanical Properties according to ASTM B505/B505M-18