

# C95400HT

Continuous Cast • GreenAlloys™

<b>Product Description:</b>	Aluminum Bronze
<b>Solids:</b>	½" to 9" O.D.
<b>Tubes:</b>	1⅝" to 12" 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
<b>Compliance:</b>	C95400HT is compliant with key legislation including (1) Federal Safe Drinking Water Act - SDWA, (2) S. 3874 Federal Reduction of Lead in Drinking Water Act, (3) California AB1953, and (4) Vermont Act 193  *Consult mill for other lengths

## Typical Uses

<b>Automotive</b>	weld guns
<b>Fasteners</b>	large hold-down screws, nuts
<b>Industrial</b>	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
<b>Marine</b>	covers for marine hardware, ship building
<b>Ordinance</b>	government fittings

## Similar or Equivalent Specification

CDA	ASTM	SAE	AMS	Federal	Military	Other
C95400	B505 B505M	J461 J462		QQ-C-390, G5 QQ-B-671, Class 3	MIL-B-16033, Class 3	Aluminum Bronze 9C

## Chemical Composition

Cu%	Fe%	Ni% <sup>1</sup>	Al%	Mn%
83.00	3.00-		10.00-	
min	5.00	1.50	11.50	0.50

Chemical Composition according to ASTM B505/B505M-18

<sup>1</sup>Ni value includes Co.

Note: Cu + Sum of Named Elements, 99.5% min. Unless otherwise noted, single values represent maximums.

## Machinability

Copper Alloy UNS No.	Machinability Rating	Density (lb/in <sup>3</sup> at 68 ° F)
C95400HT	60	0.269

Note: HT = heat treated.

## 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	
95	655	45	310	10	177	Heat Treated

Mechanical Properties according to ASTM B505/B505M-18