

# C95500HT

Continuous cast		GreenAlloys™
Product description	Nickel-aluminum bronze	
Solids	1/2" to 9" O.D.	
Tubes	1 1/8" to 9" O.D.	
Rectangles	Up to 15"	
Standard lengths	24"*	
Shape/form	Semi-finished, mill stock or near-net shapes, anode, bar stock, billet/bloom, squares, hex, plate, profile or structural shape, flats/rectangular bar	
Compliance	C95500HT 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

### Builders hardware

Window hardware

### Consumer

Musical instruments, piano keys

### Electrical

Electrical hardware

### Fasteners

Stuffing box nuts

### Industrial

Aircraft components, bearings, bushings, gears, glands, glass molds, handgun recoil mechanisms, hot mill guides, landing gear parts, machine parts, pickling equipment, piston guides, pump fluid ends, sewage treatment applications, valve bodies, valve components, valve guides, valve seats, wear plates, welding jaws, worm wheels, worms

### Marine

Covers for marine hardware, marine applications, marine hardware, ship building

### Ordnance

Government fittings

## Similar or equivalent specification

CDA	ASTM	SAE	AMS	Federal	Military	Other
C95500	B505 B505M	J461 J462		QQ-C-390, G3	MIL-B-16033, Class 4	Aluminum bronze 9D

## Chemical composition

Cu (%)	Fe (%)	Ni (%) <sup>1</sup>	Al (%)	Mn (%)
78.00 min	3.00-5.00	3.00-5.50	10.00-11.50	3.50

Chemical composition according to ASTM B505/B505M-23

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

Note: Cu + sum of named elements, 99.5% min. Unless otherwise noted, single values represent maximums.

## C95500HT continued

### Machinability

Copper alloy UNS no.	Machinability rating	Density (lb/in <sup>3</sup> at 68 ° F)
C95500HT	50	0.272

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	
110	758	62	427	8	228	Heat treated

Mechanical properties according to ASTM B505/B505M-23