

# C95520HT

Continuous cast

Product description	Nickel-aluminum bronze
Solids	1/2" to 9" O.D.
Tubes	1 1/8" to 13" 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  *Consult mill for other lengths

## Typical uses

### Industrial

Aircraft components, bearings, bushings, machine tool parts, piston guides, wear rings, worm wheels

### Marine

Hardware, propeller hubs, shafts, sleeves, wear rings, worm gears

## Similar or equivalent specification

CDA	ASTM	SAE	AMS	Federal	Military	Other
C95520	B505 B505M		4881	QQ-C-390B, Type III		

## Chemical composition

Cu (%)	Pb (%)	Sn (%)	Zn (%)	Fe (%)	Ni (%) <sup>1</sup>	Al (%)	Co (%)	Cr (%)	Mn (%)	Si (%)
74.50 min	0.03	0.25	0.30	4.00-5.50	4.20-6.00	10.50-11.50	0.20	0.05	1.50	0.15

Chemical composition according to AMS 4881

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

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

## C95520HT continued

### Machinability

Copper alloy UNS no.	Machinability rating	Density (lb/in <sup>3</sup> at 68 ° F)
C95520HT	45	0.272

Note: HT = heat treated.

### Mechanical properties

Tensile strength, min		Yield strength at 0.2% offset, min		Elongation, in 4D, min	Brinell hardness (3000 kg load)	Remarks
ksi	MPa	ksi	MPa	%	minimum BHN	
125	860	90	621	2	262	Castings <2.00, heat treated

Mechanical properties according to AMS 4881