

C95520HT

Continuous Cast

Product Description:	Nickel-Aluminum Bronze
Solids:	½" to 9" O.D.
Tubes:	1⅝" 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
	*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% ¹	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

¹Ni 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 ³ 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