

C95500HT

Continuous Cast • GreenAlloys™

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
Compliance:	C95500 is compliant with key legislation including (1) Federal Safe Drinking Water Act 1974 – SDWA, (2) Federal Reduction of Lead in Drinking Water Act of 2011 and (3) California AB1953 *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% ¹	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-18

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)
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-18