C95520HT

Cast

Product Description:	Nickel-Aluminum Bronze
Solids:	½" to 9" O.D.
Tubes:	1⅛" 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

Typical Uses

Consumer	musical instruments, piano keys
Electrical	electrical hardware, window hardware
Fasteners	stuffing box nuts
Industrial	machine parts, glass molds, welding jaws, wear plates, aircraft components, pickling equipment, valve guides, piston guides, valve seats, pump fluid ends, glands, worms, worm gears, hot mill guides, landing gear parts, sewage treatment applications, valve components, bearings, gears, bushings, valve bodies, landing gear parts, handgun recoil mechanisms
Marine	ship building, covers for marine hardware, marine applications, marine hardware
Ordnance	government fittings

Similar or Equivalent Specification

CDA	ASTM	Asarcon	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

[1]Ni value includes Co.
Note: Cu + Sum of Named Elements, 99.5% min. Single values, unless otherwise noted, represent maximums.

CONCAST METAL PRODUCTS CO.

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Machinability

Copper Alloy UNS No.	Machinability Rating	Density (lb/in³ at 68 °F)
C95520	45	0.272

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