

C95400HT

	Continuous cast	GreenAlloys™
Product description	Aluminum bronze	
Solids	1/2" to 10" O.D.	
Tubes	1 1/8" to 12" 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	C95400 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

Automotive

Weld guns

Fasteners

Large hold-down screws, nuts

Industrial

Bearing segments for the steel industry, bearings, bushings, gears, heavily loaded worm gears, high-strength clamps, landing gear parts, machine parts, pawl, pickling hooks, pressure blocks for the steel industry, pump parts, spur gears, valve bodies, valve guides, valve seats, valves, worm gears

Marine

Covers for marine hardware, ship building

Ordnance

Government fittings

Note: also available in heat-treated condition

Similar or equivalent specification

CDA	ASTM	SAE	AMS	Federal	Military	Other
C95400	B505 B505M	J461 J462		QQ-C-390, G5 QQ-B-671, Class 3	MIL-B-16033, Class 3	Aluminum Bronze 9C

Chemical composition

Cu (%)	Fe (%)	Ni (%) ¹	Al (%)	Mn (%)
83.00 min	3.00-5.00	1.50	10.00-11.50	0.50

Chemical composition according to ASTM B505/B505M-23

¹Ni value includes Co.

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

C95400HT continued

Machinability

Copper alloy UNS no.	Machinability rating	Density (lb/in ³ at 68 ° F)
C95400HT	60	0.269

Mechanical properties

Tensile strength, min		Yield strength, at 0.5% extension under load, min		Elongation, in 2 in. or 50 mm, min	Brinell hardness (500 kg load)	Remarks
ksi	MPa	ksi	MPa	%	typical BHN	
95	655	45	310	10	177	Heat treated

Mechanical properties according to ASTM B505/B505M-23