

C95300HT

Continuous cast

Product description	Aluminum bronze
Solids	1/2" to 9" O.D.
Tubes	1 1/8" 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

Electrical

Connectors

Fasteners

Stripped nuts

Industrial

Bearing segment for the steel industry, cams, gears, high-strength clamps, high-temperature applications, large hold-down screws, mining machine parts, pickling baskets, pickling hooks, pressure blocks for the steel industry, valve bodies, welding jaws

Marine

Covers for marine hardware, marine equipment

Similar or equivalent specification

CDA	ASTM	SAE	AMS	Federal	Military	Other
C95300	B505 B505M	68B J461 J462		QQ-C-390, G7 QQ-B-671, Class 2	MIL-B-16033, Class 2	Aluminum bronze 9B

Chemical composition

Cu (%)	Fe (%)	Al (%)
86.00 min	0.80-1.50	9.00-11.00

Chemical composition according to ASTM B505/B505M-23

Note: Cu + sum of named elements, 99.0% min. Unless otherwise noted, single values represent maximums.

C95300HT continued

Machinability

Copper alloy UNS no.	Machinability rating	Density (lb/in ³ at 68 ° F)
C95300HT	55	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	
80	552	40	276	12	132	Heat treated

Mechanical properties according to ASTM B505/B505M-23