

AMS 4880-C95510

Cast

Product Description:	Nickel Aluminum Bronze
Solids:	½" to 9" OD
Tubes:	1½" to 13" OD
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

Industrial	landing gear bushings and bearings, bushings, hydraulic seal components, bearings requiring abrasion resistance, good ductility, retention of hardness at moderate temperatures
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Similar or Equivalent Specification

CDA	ASTM	ASARCON	SAE	AMS	FEDERAL	MILITARY	OTHER
C95510	B505 B505M			4880			

Chemical Composition

Cu%	Sn%	Zn%	Fe%	Ni% ¹	Al%	Mn%
78.00 min	0.20	0.30	2.00- 3.50	4.50- 5.50	9.70- 10.90	1.50

Chemical Composition according to AMS 4880

¹Ni value includes Co.

Note: Cu + Sum of Named Elements, 99.8% min. Single values, unless otherwise noted, represent maximums.

Machinability

Copper Alloy UNS No.	Machinability Rating	Density (lb/cu in at 68° F)
C95510	50	0.272

Mechanical Properties

AMS 4880-C95510 continued

Tensile Strength, min		Yield Strength, at .2% Offset, min		Elongation, in 4D, min	Brinell Hardness	Remarks
ksi	MPa	ksi	MPa	%	min to max BHN	
105.0	724	62.5	431	9	192 to 248	castings <4.0, Heat Treated
95.0	655	56.0	386	9	192 to 248	castings 4.0+, Heat Treated

Mechanical Properties according to AMS 4880

