AMS 4880-C95510

✓ STANDARD-STOCKED PRODUCT

Cast

Product Description:	Nickel Aluminum Bronze
Solids:	½" to 9" O.D.
Tubes:	1⅛" to 13" 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

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

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

[1]Ni 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

CONCAST METAL PRODUCTS CO.

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Mechanical Properties

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