

# AMS 4880-C95510

Cast

<b>Product Description:</b>	Nickel-Aluminum Bronze
<b>Solids:</b>	½" to 9" O.D.
<b>Tubes:</b>	1⅛" to 13" O.D.
<b>Rectangles:</b>	Up to 15"
<b>Standard Lengths:</b>	24**
<b>Shape/Form:</b>	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

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

## Similar or Equivalent Specification

CDA	ASTM	SAE	AMS	Federal	Military	Other
C95510		J461 J462	4880			

## Chemical Composition

Cu%	Sn%	Zn%	Fe%	Ni% <sup>1</sup>	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

<sup>1</sup>Ni value includes Co.

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

## Machinability

Copper Alloy UNS No.	Machinability Rating	Density (lb/in <sup>3</sup> at 68 °F)
C95510	50	0.272

## Mechanical Properties

Tensile Strength, min		Yield Strength at 0.2% 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