



C95510

NICKEL ALUMINUM BRONZE (AMS 4880)

WWW.NBMMETALS.COM

LEADING MANUFACTURER & MASTER DISTRIBUTOR OF BRASS, BRONZE, & COPPER ALLOYS



Offered in solid & hollow bars.

This is one of the most popular landing gear bushing materials specified today along with C63000 material. This continuous / centrifugal cast alloy is heat treated and exhibits high mechanical strength which meets the properties of C63000 (AMS 4640). In many cases C95510 (AMS 4880) can be substituted for C63000 with the advantage of this material being available in tube form, which provides economic cost savings for you, the customer.

Sizes Available From NBM

SOLID BAR 1/2" - 12" diameter
 HOLLOW BAR thru 10" O.D.

Spec Equivalents

Continuous
 ASTM B-505
 AMS 4880
 SAE J461, J462

Centrifugal
 ASTM B-271
 AMS 4880
 SAE J461, J462



Typical Uses

Aerospace
 Landing Gear Bushings & Bearings, Valve Guides, Stems, and Seats

Other Industrial
 Corrosion Resistant Parts, Wear Rings, Machine Tool Parts, Piston Guides, Worm Wheels, Hot Mill Guides

Marine
 Propeller Hubs, Wear Rings, Hardware, Worm Gears, Shafts, Sleeves

General Notes

Our material is DFARS compliant. Many popular sizes are now available from stock.

Chemical Composition

	Cu ⁽¹⁾	Al	Fe	Mn	Ni ⁽¹⁾	Sn	Zn
min/max	78.0 min	9.7-10.9	2.0-3.5	1.5	4.5-5.5	.20	.30
nominal	-	10.3	2.7	-	5.0	-	-

(1) Ni value includes Co.
 Note: Cu + Sum of Named Elements, 99.8% min.

NBM
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Room Temp Tensile & Hardness Data

SECTION SIZE (INCHES)	TENSILE STRENGTH (KSI) MIN	YIELD STRENGTH (KSI) MIN	ELONGATION IN HD MIN	BRINELL (3000 KG)
1" AND UNDER	105	62.5	9%	-
1" AND OVER	95	50	8%	195

Physical Properties (Based on C95500)

Melting Point - Liquidus	1930 F
Melting Point - Solidus	1900 F
Density	0.272 lb/in ³ at 68 F
Specific Gravity	7.53
Electrical Resistivity	122.8 ohms-cmil/ft @ 68 F
Electrical Conductivity	8.5 %IACS @ 68 F
Thermal Conductivity	24.2 Btu · ft/(hr · ft ² ·°F) at 68F
Coefficient of Thermal Expansion	9.0 · 10 ⁻⁶ per °F (68-572 F)
Specific Heat Capacity	0.1 Btu/lb·°F at 68 F
Modulus of Elasticity in Tension	16000 ksi
Magnetic Permeability	1.2
Machinability Rating	50



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