



TYPICAL USES

- Aerospace** Landing Gear Bushings & Bearings, Valve Guides, Stems and Seats
- Industrial** Corrosion Resistant Parts, Wear Rings, Machine Tool Parts, Piston Guides, Worm Wheels
- Marine** Propeller Hubs, Wear Rings, Hardware, Worm Gears, Shafts, Sleeves

Bronze Family: Nickel Aluminum Bronze
Solids: 1/2" to 9" OD
Tubes: 1-1/8" to 9" OD
Rectangles: Up to 15"
Standard Lengths: 24" Maximum Length

CONDITION

Quench hardened and temper annealed (TQ50)

SIMILAR OR EQUIVALENT SPECIFICATION

CDA	ASTM	ASARCON	SAE	AMS	FEDERAL	INGOT	MILITARY	OTHER
				AMS 4880 4880				

CHEMICAL COMPOSITION

Alloy	Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Mn%	Si%
C95510HT	78.00	0.2	N/A	0.3	2.0-3.5	4.5-5.5	N/A	N/A	N/A	9.7-10.9	1.5	N/A

Note: Single values represent maximums.

MECHANICAL PROPERTIES

	Tensile Strength, min	Yield Strength, at 0.2% offset	Elongation in 4D	Hardness
Castings 4.0 and under	105.0 ksi	62.5 ksi	9%	HB 3000 KG 192 to 248
Castings 4.0 and over	95.0 ksi	56.0 ksi	9%	HB 3000 KG 192 to 248

Mechanical Properties according to SAE

PHYSICAL PROPERTIES (BASED ON C95500)

ALLOY: C95510HT CONTINUED

Melting Point - Liquidus	1930 F
Melting Point - Solidus	1900 F
Density	0.272 lb/in ³ at 68 F
Specific Gravity	7.530
Electrical Resistivity	122.80 ohms-cmil/ft @ 68 F
Electrical Conductivity	8 %IACS @ 68 F
Thermal Conductivity	24.20 Btu · ft/(hr · ft ² ·oF)at 68F
Coefficient of Thermal Expansion	9 ·10 ⁻⁶ per oF (68-572 F)
Specific Heat Capacity	0.10 Btu/lb/oF at 68 F
Modulus of Elasticity in Tension	16000 ksi
Magnetic Permeability	1.20
Machinability Rating	50
