

C94000

Cast

Product Description:	High-Leaded Tin Bronze
Solids:	½" to 10" OD
Tubes:	1" to 16" OD
Rectangles:	Up to 10"
Standard Lengths:	144"
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 high-speed bearings for light loads, soft bushings, soft metal applications, railroad applications, high-speed/light-to-medium-pressure bushings

Similar or Equivalent Specification

CDA	ASTM	ASARCON	SAE	AMS	FEDERAL	MILITARY	OTHER
C94000	B505 B505M				QQ-C-390, E2 QQ-B-1005, COMP 13	MIL-B-11553, COMP 13	

Chemical Composition

Cu%	Pb%	Sn%	Zn%	Fe%	P% ¹	Ni% ²	Al%	S% ³	Sb%	Si%
69.00- 72.00	14.00- 16.00	12.00- 14.00	0.50	0.25	0.05	0.50- 1.00	0.005	0.08	0.50	0.005

Chemical Composition according to ASTM B505/B505M-14

¹For continuous castings, P shall be 1.5% max.

²Ni value includes Co.

³For continuous castings, S shall be 0.25% max.

Note: Cu + Sum of Named Elements, 98.7% min. Single values represent maximums.

Machinability

Copper Alloy UNS No.	Machinability Rating	Density (lb/cu in at 68° F)
C94000	80	0.334



Mechanical Properties

C94000 continued

Tensile Strength, min		Yield Strength, at .5% extension under load min		Elongation, in 2 in. or 50 mm min	Brinell Hardness	Remarks
ksi	MPa	ksi	MPa	%	typical BHN	
					80 (500 KG)	

Mechanical Properties according to ASTM B505/B505M-14

