

C94000

Continuous Cast

Product Description:	High-Leaded Tin Bronze
Solids:	½" to 10" O.D.
Tubes:	1" to 16" O.D.
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, high-speed/light-to-medium-pressure bushings, soft bushings, railroad applications, soft metal applications

Similar or Equivalent Specification

CDA	ASTM	SAE	AMS	Federal	Military	Other
C94000	B505 B505M	J461 J462		QQ-C-390, E2 QQ-B-1005, Comp 13	MIL-B-11553, Comp 13	

Chemical Composition

Cu%	Pb%	Sn%	Zn%	Fe%	P%	Ni% ¹	Al%	S% ²	Sb%	Si%
69.00- 72.00	14.00- 16.00	12.00- 14.00	0.50	0.25	1.50	0.50- 1.00	0.005	0.25	0.50	0.005

Chemical Composition according to ASTM B505/B505M-18

¹Ni value includes Co.

²For 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/in ³ at 68 °F)
C94000	80	0.334

Mechanical Properties

Tensile Strength, min		Yield Strength, at 0.5% Extension Under Load, min		Elongation, in 2 in. or 50 mm min	Brinell Hardness (500 kg load)	Remarks
ksi	MPa	ksi	MPa	%	typical BHN	
					80	

Mechanical Properties according to ASTM B505/B505M-18