

# C94000

Cast

<b>Product Description:</b>	High-Leaded Tin Bronze
<b>Solids:</b>	½" to 10" OD
<b>Tubes:</b>	1" to 16" OD
<b>Rectangles:</b>	Up to 10"
<b>Standard Lengths:</b>	144"
<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

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

Chemical Composition according to ASTM B505/B505M-14

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

<sup>2</sup>For continuous castings, P shall be 1.5%, max.

<sup>3</sup>For continuous castings, S shall be .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

