

C94100

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 thrust block

Similar or Equivalent Specification

CDA	ASTM	SAE	AMS	Federal	Military	Other
C94100	B505 B505M			QQ-C-390, E5	MIL-B-16261, Grade X	

Chemical Composition

Cu%	Pb%	Sn%	Zn%	Fe%	P%	Ni% ¹	Al%	S% ²	Sb%	Si%
72.00- 79.00	18.00- 22.00	4.50- 6.50	1.00	0.25	1.50	1.00	0.005	0.25	0.80	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)
C94100	80	0.336

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	
25	172	17	117	7	50	

Mechanical Properties according to ASTM B505/B505M-18