

C90800

Cast • GreenAlloys™

Product Description:	Tin Bronze
Solids:	1" to 6" O.D.
Tubes:	1" to 6" 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
Compliance:	C90800 is compliant with key legislation including (1) Federal Safe Drinking Water Act 1974 – SDWA, (2) Federal Reduction of Lead in Drinking Water Act of 2011 and (3) California AB1953

Typical Uses

Industrial speed reducers, worm gears

Similar or Equivalent Specification

CDA	ASTM	SAE	AMS	Federal	Military	Other
C90800	B427					

Chemical Composition

Cu% ¹	Pb%	Sn%	Zn%	Fe%	P%	Ni% ²	Al%	S%	Sb%	Si%
85.00- 89.00	0.25	11.00- 13.00	0.25	0.15	0.30	0.50	0.005	0.05	0.20	0.005

Chemical Composition according to ASTM B427-09(2015)

¹In determining Cu min., Cu may be calculated as Cu + Ni. ²Ni value includes Co.
Note: Cu + Sum of Named Elements, 99.4% min. Single values represent maximums.

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	
45	310	22	152	14	95	

Mechanical Properties according to ASTM B427-09(2015)