

C90810

Cast • GreenAlloy™

Product Description:	High Tin Bronze
Solids:	1" to 6" OD
Tubes:	1" to 6" 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
Compliance:	C90810 is compliant with key legislation including (1) Federal Safe Drinking Water Act 1974 – SDWA, (2) Federal Reduction of Lead in Drinking Water Act 2011 and (3) California AF1953

Typical Uses

Industrial bearings, shafts, gears, worm gears

Chemical Composition

Alloy	Cu% ¹	Sn%	Pb%	Zn%	Fe%	Ni% ²	Sb%	P% ³	S%	Al%	Si%
C90810	Remainder	11.00-13.00	0.25	0.30	0.15	0.50	0.20	0.15-0.80	0.05	0.005	0.005

¹In determining Cu min., Cu may be calculated as Cu + Ni.

²Ni value includes Co.

³For continuous castings, P shall be 1.5%, max.

Note: Cu + Sum of Named Elements, 99.4% min. Single values represent maximums.

Machinability

Alloy	Machinability Rating	Density (lb/cu in at 68° F)
C90810	20	0.323

Mechanical Properties

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	
					95 (500 kg)	