

# C90810

	Continuous cast	GreenAlloys™
Product description	High 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	C90810 is compliant with key legislation including (1) Federal Safe Drinking Water Act - SDWA, (2) S. 3874 Federal Reduction of Lead in Drinking Water Act, (3) California AB1953, and (4) Vermont Act 193	

## Typical uses

### Industrial

Bearings, gears, shafts, worm gears

## Chemical composition

Cu (%) <sup>1</sup>	Pb (%)	Sn (%)	Zn (%)	Fe (%)	P (%) <sup>2</sup>	Ni (%) <sup>3</sup>	Al (%)	S (%)	Sb (%)	Si (%)
remain.	0.25	11.00-13.00	0.30	0.15	0.15-0.80	0.50	0.005	0.05	0.20	0.005

Chemical composition provided by CDA

<sup>1</sup>In determining Cu min., Cu may be calculated as Cu + Ni.

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

<sup>3</sup>Ni value includes Co.

Note: Cu + sum of named elements, 99.4% min. Single values represent maximums.

## Machinability

Copper alloy UNS no.	Machinability rating	Density (lb/in <sup>3</sup> at 68° F)
C90810	20	0.323

## 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	
					95	