

# C89320 ASTM B505-08

Cast • Green Alloy • Antimicrobial

C89320

<b>Bronze Family:</b>	Bismuth Tin Bronze
<b>Type:</b>	Bronze or copper alloy
<b>Solids:</b>	½" to 10" OD
<b>Tubes:</b>	1⅛" to 9" OD
<b>Rectangles:</b>	Up to 15" wide
<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

## BENEFITS:

Good machinability, excellent high speed low load bearings. Has good castability properties

## APPLICATIONS:

Wrist Pin Bushings, Backs for Lined Bearings, Cam Bushings for Diesel Engines, Crankshaft Main Bearings, Deep Well Pump Line Shaft Bearings, Deep Well Pump Bowl Bushings, Electric Motor Bearings, Guide Bushings for Piston Rods, Guide Bushings for Valves, Hydraulic Gland Seals, Main Bearings for Presses, Piston Pin Bearings, Pump Sleeves, Rod Bushings, Rolling Mill Bearings, Seals, Sleeve Bushings (for cranes, etc.), Spacer Bushings (for Pumps, etc.), General Utility Bearings, General Utility Bushings

## Chemical Composition

Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Mn%	Si%	Bi%
87.00-91.00	5.0-7.0	0.09	1.00	0.20	1.00	0.35	0.30	0.08	0.005	N/A	0.005	4.0-6.0

Note: Single values represent maximums.

## Mechanical Properties

Tensile	Yield	% Elongation in 2"	Hardness
35 ksi min	18 ksi min	15% min	70 typical Bhn (500 kg )

## Machinability

Alloy	Machinability Rating	Density (lb/cu in.)
C89320	80	0.318