

# C87850 EcoBrass<sup>®</sup>

## ASTM B505-08

Cast • Green Alloy

C87850

<b>Bronze Family:</b>	Silicon Brass
<b>Type:</b>	Brass, bronze or copper alloy
<b>Solids:</b>	½" to 9" OD
<b>Tubes:</b>	1" to 16" 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 de-zincification corrosion resistance, excellent stress corrosion cracking resistance, good castability, high strength equivalent to stainless steel, excellent warm brittleness cracking resistance and plentiful supply of raw materials

### APPLICATIONS:

Water supply devices, faucets, valves, fittings, precision parts, substitute for stainless steel, shafts, screw, bearings, electronic parts and automobile parts

## Chemical Composition

Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Mn%	Si%
74.00-78.00	0.30	0.09	REM.	0.10	0.20	.10	0.05-0.20	N/A	N/A	0.10	2.70-3.40

Note: Single values represent maximums.

## Mechanical Properties

Tensile	Yield	% Elongation in 2"	Hardness
65 ksi min	25 ksi min	8% min	103 MIN Bhn (500 kg)

## Machinability

Alloy	Machinability Rating	Density (lb/cu in.)
C87850	70	0.300