



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

TYPICAL USES

Faucets, pump components, pipe fittings, plumbing goods, water pump impellers, housings and small gears

Bronze Family: Silicon Brass
Type: Brass, bronze, or copper alloy
Solids: ½" to 9" OD
Tubes: 1" to 16" OD
Rectangles: Up to 15" wide
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

CHEMICAL COMPOSITION

Alloy	Cu%	Sn%	Pb%	Zn%	Fe%	Ni%	Sb%	P%	S%	Al%	Mn%	Si%	Bi%
C87850	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	N/A

Note: Single values represent maximums.

MACHINABILITY

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

MECHANICAL PROPERTIES

Tensile Strength, min	Yield Strength, at .5% extension under load min	Elongation in 2 in. or 50 mm min, %	Brinell Hardness, min	Remarks
ksi	ksi			
65	25	8	103 MIN Bhn (500 kg)	