



Chemistry	Specification	n							
Cu (%)	Si (%)	P (%)	Pb (%)	Fe (%)	Sn (%)	Ni (%)	Mn (%)	Sb (%)	Zn
75-78	2.7-3.4	0.05-0.20	0.09 max	0.10 max	0.30 max	0.20 max	0.10 max	0.10 max	Remainder

Mechanical Properties	ECO BRONZ	E C87850
Tensile Strength (min) KSI		65
Yield Strength (min) KSI		25
Elongation (min) %		8
Brinell Hardness (500 lb load)		103
Physical Properties		
Melting Point - Liquidus (°F)		1616

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Melting Point - Solidus (°F)	1571
Density (lb/cu in.)	0.300
Electrical Conductivity (%IACS at 68°F)	8
Thermal Conductivity (Btu/sq ft/ft hr/°F at 68°F)	21.8
Coefficient of Thermal Expansion (x10-6/°F, 68-212°F)	10.3
Coefficient of Thermal Expansion (x10-6/°F, 68-392°F)	10.3
Coefficient of Thermal Expansion (x10-6/°F, 68-572°F)	10.4
Specific Heat Capacity (Btu/lb/°F at 68°F)	0.09

## **Fabrication Properties**

Joining Technique	Rating
Brazing	Excellent
Butt Welding	Good
Seam Welding	Good
Soldering	Excellent
Spot Welding	Good



## **AVAILABLE IN:**

- Wrought	- Centrifugal Cast		
- Continuous Cast	- Permanent Mold		

For further information please contact:

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To learn more about ECO BRONZE® visit

www.ECOBRONZE-USA.COM

