

START SMALL. MELT QUICKLY. MAXIMIZE PRODUCTIVITY

Introducing

EZ-MELT ECO BRONZE SHOT



The smallest, yet most versatile, member of our product line.

EZ-Melt Shot provides more surface area in a furnace that results in more efficient melting and reduced BTU consumption than traditional Ingot.

Advantages:

ENERGY:

- Reduces melt time 10% or more
- Reduces BTU consumption
- Liquidus is only 1616 °F

LABOR & PRODUCTIVITY:

- Labor saving
- Reduces pinch points vs traditional ingot
- Ideal form for charge automation
- Low dross
- No supplemental Phosphorus required

Material Performance

- High strength
- High fluidity
- Low gassing

MADE WITH



C87850 - ECO BRONZE has been recognized in a university study as the leading lead-free alloy for environmental friendliness, efficient manufacturing of component parts and end-of-life recyclability.

ECO BRONZE® Characteristics:

- High strength
- Corrosion resistant
- Good machinability
- Low pouring temperature
- Short solidification range
- Less prone to dispersed microporosity
- High detail replication
- Lead free*



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*This product complies with 0.25% weighted average lead content on wetted surfaces in accordance with Safe Water Drinking Act (SDWA) / Federal Public Law No. 111-380.

C87850

Silicon Bronze Alloy Properties

C87850 Copper Silicon Bronze Alloy Properties

Melting Point - Liquidus (°F)	1616
Melting Point - Solidus (°F)	1571
Density (lb/cu in.)	0.3
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
Annealing Temperature Range (°F)	930-1110
Hot Working Temperature Range (°F)	1200-1400



Minimum Mechanical Properties (ASTM B505, B584, B806)

Casting Method	Tensile Strength (ksi)	Yield Strength (ksi)	Elong. %	Brinell Hardness 500 lb Load
Sand	59	22	16	
Permanent Mold	64	32	16	
Continuous Cast	65	25	8	103



Chemistry Specification (ASTM B30)

Cu (%)	Si (%)	P (%)	Pb (%)	Fe (%)	Sn (%)	Ni (%)	Mn (%)	Sb (%)
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

For further information please contact:

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To learn more or obtain a list of ECO BRONZE® plumbing manufacturers visit

www.ECOBRONZE-USA.COM

