

START SMALL, MELT QUICKLY, MAXIMIZE PRODUCTIVITY.

Introducing

EZ-MELT GRANULAR INGOT



MADE WITH



C87850 - ECO BRONZE is AWWA C800 approved for use in cast underground service lines. Additionally, ECO BRONZE is suitable for use in AWWA C700 and C500 Standard applications. 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. To support sustainability efforts, ECO BRONZE EZ-Melt uses less energy to melt versus other lead free alloys and is fully recyclable, as all elements of the alloy can be separated and recaptured to support end of life.

AWWA STANDARDS

AWWA C800 Standard – Underground Service Valves and Fittings

AWWA C700 Standard - Cold-Water Displacement Meters

AWWA C500 Standard – Metal-Seated Gate Valves for Water Supply Service

ECO BRONZE® Characteristics:

- Lead free*
- Dezincification resistant
- Stress corrosion cracking resistant
- High fluidity
- Melts at lower temps
- Low pouring temperature
- Short solidification range
- Less prone to dispersed microporosity
- Low dross
- High strength
- Lighter weight
- Energy efficient production
- Good machinability
- Fully recyclable
- Reduces CO₂
- Supports sustainability efforts

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

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

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*This product complies with 0.25% weighted average lead content on wetted surface

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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 (10 ⁻⁶ /°F, 68-212°F)	10.3
Coefficient of Thermal Expansion (10 ⁻⁶ /°F, 68-392°F)	10.3
Coefficient of Thermal Expansion (10 ⁻⁶ /°F, 68-572°F)	10.4
Specific Heat Capacity (Btu/lb/°F at 68°F)	0.09
Annealing Temperature Range (°F)	1000-1200
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 Sp	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 about ECO BRONZE® visit

www.ECOBRONZE-USA.COM

