

Lucas-Milhaupt BRAZE 450 Silver Based Cadmium Free Filler Metal

Category : Metal , Nonferrous Metal , Precious Metal , Silver Alloy , Solder/Braze Alloy

Material Notes:

Characteristics: Braze 450 is an intermediate temperature cadmium free silver brazing filler metal with sufficient melting range (145EF) to properly braze joints with the range of fits encountered in commercial tubing and fittings. It has a slight tendency to liquate (i.e. separate into high and low melting constituents) if heated slowly through its melting range. **Applications:** Braze 450 has found considerable application in pipe brazing in the ship construction industry and for such items as band instruments, brass lamps, aircraft engine oil coolers, plus other situations where a high strength, ductile joint is required. It is a good, general purpose, brazing filler metal for use where a cadmium free filler metal is specified. **Specifications:** Braze 450 conforms to the following specifications- AWS A5.8 BA_g-5, ASME Boiler & Pressure Vessel Code Sec. II C, SFA-5.8 BA_g-5 Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-450-Silver-Based-Cadmium-Free-Filler-Metal.php

Physical Properties	Metric	English	Comments
Density	9.11 g/cc	0.329 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	172 - 207 MPa	25000 - 30000 psi	Copper butt joint
	276 - 345 MPa	40000 - 50000 psi	Brass butt joint
	310 - 379 MPa	45000 - 55000 psi	Nickel-Silver butt joint
Elongation at Break	13 - 22 %	13 - 22 %	% in 2", Copper butt joint
	14 - 28 %	14 - 28 %	% in 2", Nickel-Silver butt joint
	20 - 36 %	20 - 36 %	% in 2", Brass butt joint

Thermal Properties	Metric	English	Comments
Melting Point	662.8 - 743 °C	1225 - 1370 °F	
Solidus	662.8 °C	1225 °F	Melting Point
Liquidus	743 °C	1370 °F	Flow Point

Component Elements Properties	Metric	English	Comments
Copper, Cu	29 - 31 %	29 - 31 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	44 - 46 %	44 - 46 %	

Zinc, Zn Component Elements Properties	23 - 27 % Metric	23 - 27 % English	Comments
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Electrical Properties	Metric	English	Comments
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Electrical Resistivity	0.00000908 ohm-cm	0.00000908 ohm-cm	
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Processing Properties	Metric	English	Comments
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Processing Temperature	743 - 843 Å°C	1370 - 1550 Å°F	Brazing Range
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Descriptive Properties	Value	Comments
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Color	Yellow White	
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