

Lucas-Milhaupt BRAZE 700 (Medium) Silver Based Cadmium Free Filler Metal

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

Material Notes:

Characteristics: This alloy is a intermediate silver brazing filler metals with a slight tendency to liquate (i.e. separate into low and high melting constituents) if heated slowly through their melting ranges. When this filler metal is used for brazing silver base alloys, the remelt temperature is raised by solution of silver in the brazing alloy. Conversely, the remelt temperature of this brazing alloy is lowered by solution of copper when brazing copper base alloys. **Applications:** This brazing filler metal is commonly used in the silversmithing trade and other applications where their silver-white color is advantageous in color-matching, and the corrosion resistance of high-silver, low-zinc alloy is desired. This filler metal is often used in combination to perform sequential or step brazing of adjacent joints, to avoid remelting the previously made joints. Because of its zinc content, this filler metal can be used to join iron and nickel-base alloys.

TSpecifications:This alloy conform to the following specifications: AWS - A 5.8 BAg-10, ASME Boiler & Pressure Vessel Code Sec. 11-C, SFA 5.8 BAg-10 Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-700-Medium-Silver-Based-Cadmium-Free-Filler-Metal.php

Physical Properties	Metric	English	Comments
Density	9.77 g/cc	0.353 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	172 - 207 MPa	25000 - 30000 psi	Brass butt joint
	207 - 228 MPa	30000 - 33000 psi	Copper butt joint
	276 - 345 MPa	40000 - 50000 psi	Nickel-Silver butt joint
Elongation at Break	5.0 - 7.0 %	5.0 - 7.0 %	% in 2", Copper butt joint
	9.0 - 12 %	9.0 - 12 %	% in 2", Nickel-Silver butt joint
	16 - 27 %	16 - 27 %	% in 2", Brass butt joint

Thermal Properties	Metric	English	Comments
Melting Point	690.6 - 738 Â°C	1275 - 1360 Â°F	
Solidus	690.6 Â°C	1275 Â°F	Melting Point
Liquidus	738 Â°C	1360 Â°F	Flow Point

Component Elements Properties	Metric	English	Comments
Copper, Cu	19 - 21 %	19 - 21 %	
Other, total	<= 0.15 %	<= 0.15 %	

Component Elements Properties	Metric	English	Comments
Zinc, Zn	9.0 - 11 %	9.0 - 11 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000645 ohm-cm	0.00000645 ohm-cm	

Descriptive Properties	Value	Comments
Color	White	
Corrosion Resistance	10.9 Mgs/dcm ² /Day	1% Acetic Acid, 95Â°C, in vapors
	34 Mgs/dcm ² /Day	10% Acetic Acid, 95Â°C, in vapors
	621 Mgs/dcm ² /Day	Chlorine Water, room temperature, partially immersed

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