

Lucas-Milhaupt BRAZE 750 (Hard) Silver Based Cadmium Free Filler Metal

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

Material Notes:

Characteristics: This alloy is an intermediate silver brazing filler metal 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. The low-zinc content of Braze 750 minimizes zinc fuming when furnace brazing, particularly in a controlled atmosphere without flux. The low-zinc content also causes very little change in the brilliance of the enamel, when enameling after brazing. Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-750-Hard-Silver-Based-Cadmium-Free-Filler-Metal.php

Physical Properties	Metric	English	Comments
Density	9.95 g/cc	0.359 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	172 - 207 MPa	25000 - 30000 psi	Copper butt joint
	172 - 241 MPa	25000 - 35000 psi	Brass 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", Brass butt joint
	8.0 - 13 %	8.0 - 13 %	% in 2", Nickel-Silver butt joint
	13 - 19 %	13 - 19 %	% in 2", Copper butt joint

Thermal Properties	Metric	English	Comments
Melting Point	740.6 - 788 °C	1365 - 1450 °F	
Solidus	740.6 °C	1365 °F	Melting Point
Liquidus	788 °C	1450 °F	Flow Point

Component Elements Properties	Metric	English	Comments
Copper, Cu	21 - 23 %	21 - 23 %	

Other total Component Elements Properties	$\leq 0.15\%$ Metric	$\leq 0.15\%$ English	Comments
Silver, Ag	74 - 76 %	74 - 76 %	
Zinc, Zn	2.5 - 3.5 %	2.5 - 3.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000323 ohm-cm	0.00000323 ohm-cm	

Descriptive Properties	Value	Comments
Color	White	
Corrosion Resistance	10.9 Mgs/dcm ² /Day	1% Acetic Acid, 95Å°C, in vapors
	37.2 Mgs/dcm ² /Day	10% Acetic Acid, 95Å°C, in vapors

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China