

Lucas-Milhaupt Silvaloy® B72 Brazing Alloy

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

Material Notes:

Silvaloy B72 is the eutectic composition of the silver-copper system. It is suitable for use in controlled atmosphere brazing without the use of a paste flux. When molten, it is very fluid and may flow out over the work surfaces during some furnace brazing applications. The wetting action on ferrous metals is limited, minimizing its use on carbon steel. Improved wetting is observed when furnace brazing of stainless steel with silver-copper filler metals. Most applications for this alloys are on copper and nickel base alloys. Typical applications are the joining of ferrous, nonferrous, and dissimilar metals and alloys with close joint clearances. Information provided by Lucas-Milhaupt Warwick, LLC (formerly Wolverine Joining Technologies).

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucas-Milhaupt-Silvaloy-B72-Brazing-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	9.06 g/cc	9.06 g/cc	
Density	9.96 g/cc	0.360 lb/in ³	

Thermal Properties	Metric	English	Comments
Melting Point	779.4 °C	1435 °F	
Solidus	779.4 °C	1435 °F	
Liquidus	779.4 °C	1435 °F	
Maximum Service Temperature, Air	204 °C	400 °F	continuous
	316 °C	600 °F	intermittent

Component Elements Properties	Metric	English	Comments
Copper, Cu	26.85 - 29 %	26.85 - 29 %	As balance
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	71 - 73 %	71 - 73 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000200 ohm-cm	0.00000200 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	779.4 - 899 °C	1435 - 1650 °F	Brazing Temperature

Descriptive Properties	Value	Comments
Color	White	
Electrical Conductivity (% IACS)	87	

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