

Lucas-Milhaupt Silvaloy® A24 Brazing Alloy

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

Material Notes:

Silvaloy A24 does not contain cadmium and is a lower silver modification to the standard Bag-20 at 30 percent. Its slightly higher melt temperature provides improved mechanical strength when exposed to elevated temperatures or cyclic loads at elevated temperatures. It can be used in joining of copper, brass, nickel, silver, and ferrous 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-A24-Brazing-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	8.91 g/cc	8.91 g/cc	
Density	8.90 g/cc	0.322 lb/in ³	

Thermal Properties	Metric	English	Comments
Melting Point	688 - 810 °C	1270 - 1490 °F	
Solidus	688 °C	1270 °F	
Liquidus	810 °C	1490 °F	
Maximum Service Temperature, Air	260 °C	500 °F	continuous
	371 °C	700 °F	intermittent

Component Elements Properties	Metric	English	Comments
Copper, Cu	42 - 44 %	42 - 44 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	23 - 25 %	23 - 25 %	
Zinc, Zn	31 - 35 %	31 - 35 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000712 ohm-cm	0.00000712 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	816 - 926.1 °C	1500 - 1699 °F	Brazing Temperature

Descriptive Properties	Value	Comments
Color	Light Yellow	
Electrical Conductivity (% IACS)	24.2	

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