

Lucas-Milhaupt Silvaloy® A45 Brazing Alloy

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

Material Notes:

Silvaloy A45 is a good general purpose alloy often used when cadmium must be avoided such as in the dairy and food industries. It is also used for brazing in the electrical industry and for brazing brass parts such as ships, piping, band instruments and lamps. Typical applications are the joining of ferrous, non-ferrous, 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-A45-Brazing-Alloy.php

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

Thermal Properties	Metric	English	Comments
Melting Point	662.8 - 743 Â°C	1225 - 1370 Â°F	
Solidus	662.8 Â°C	1225 Â°F	
Liquidus	743 Â°C	1370 Â°F	
Maximum Service Temperature, Air	204 Â°C	400 Â°F	continuous
	316 Â°C	600 Â°F	intermittent

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	23 - 27 %	23 - 27 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000908 ohm-cm	0.00000908 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	743 - 843 Â°C	1370 - 1550 Â°F	Brazing Temperature

Descriptive Properties	Value	Comments
Color	Yellow White	
Electrical Conductivity (% IACS)	19	

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