

Lucas-Milhaupt Silvaloy® 45 Brazing Alloy

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

Material Notes:

Silvaloy 45 is the lowest melting brazing alloy available composed of silver, copper, zinc, and cadmium. It is suitable for use on most metals except aluminum and magnesium. It is used for joining steel, stainless steel, copper, copper alloys, nickel, nickel alloys or combinations of these metals. It has a wide acceptance by industrial users, as well as being included in Federal military specifications on brazing filler metals or alloys. It has a narrow melting range which is not apparent in most brazing operations, making it flow freely through a capillary. 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-45-Brazing-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	9.34 g/cc	9.34 g/cc	
Density	9.41 g/cc	0.340 lb/in ³	

Thermal Properties	Metric	English	Comments
Melting Point	607.2 - 618.3 °C	1125 - 1145 °F	
Solidus	607.2 °C	1125 °F	
Liquidus	618.3 °C	1145 °F	
Maximum Service Temperature, Air	204 °C	400 °F	continuous
	316 °C	600 °F	intermittent

Component Elements Properties	Metric	English	Comments
Cadmium, Cd	23 - 25 %	23 - 25 %	
Copper, Cu	14 - 16 %	14 - 16 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	44 - 46 %	44 - 46 %	
Zinc, Zn	14 - 18 %	14 - 18 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000606 ohm-cm	0.00000606 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	618.3 - 760 Â°C	1145 - 1400 Â°F	Brazing Temperature

Descriptive Properties	Value	Comments
Color	Light Yellow	
Electrical Conductivity (% IACS)	27.6	

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