

Lucas-Milhaupt Silvaloy[®] 25 Brazing Alloy

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

Material Notes:

Silvaloy 25 is historically a modification of Silvaloy 30 with a further reduction in silver content resulting in a higher melting point and a longer melting range. Silvaloy 25 is used for brazing steel, stainless steel, copper, copper alloys, nickel, nickel alloys or combinations of these metals. It is similar to Silvaloy 30 in performance although it contains less silver. Its broader melting range is helpful where clearances are not uniform. During melting, Silvaloy 25 passes from the solid state to a mushy or plastic state and progressively to a liquid. 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-25-Brazing-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	8.95 g/cc	8.95 g/cc	
Density	8.94 g/cc	0.323 lb/in ³	

Thermal Properties	Metric	English	Comments
Melting Point	607.2 - 746.1 Å°C	1125 - 1375 Å°F	
Solidus	607.2 Å°C	1125 Å°F	
Liquidus	746.1 Å°C	1375 Å°F	
Maximum Service Temperature, Air	204 Å°C	400 Å°F	continuous
	316 Å°C	600 Å°F	intermittent

Component Elements Properties	Metric	English	Comments
Cadmium, Cd	12.5 - 14.5 %	12.5 - 14.5 %	
Copper, Cu	35 %	35 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	24 - 26 %	24 - 26 %	
Zinc, Zn	24.5 - 28.5 %	24.5 - 28.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000570 ohm-cm	0.00000570 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	710 - 843 Â°C	1310 - 1550 Â°F	Brazing Temperature

Descriptive Properties	Value	Comments
Color	Light Yellow	
Electrical Conductivity (% IACS)	29.7	

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