

Lucas-Milhaupt Silvaloy[®] A54N Brazing Alloy

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

Material Notes:

Silvaloy A54N is a silver brazing alloy suitable for furnace brazing due to its low zinc content. Its broader melting range is helpful where clearances are not uniform. During melting, Silvaloy A54N passes from the solid state to a mushy or plastic state and progressively to a liquid. Typical applications are the joining of ferrous, non-ferrous, and dissimilar metals and alloys. 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-A54N-Brazing-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	9.63 g/cc	9.63 g/cc	
Density	9.62 g/cc	0.348 lb/in ³	

Thermal Properties	Metric	English	Comments
Melting Point	718.3 - 857.2 Å°C	1325 - 1575 Å°F	
Solidus	718.3 Å°C	1325 Å°F	
Liquidus	857.2 Å°C	1575 Å°F	
Maximum Service Temperature, Air	371 Å°C	700 Å°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	39 - 41 %	39 - 41 %	
Nickel, Ni	0.50 - 1.5 %	0.50 - 1.5 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	53 - 55 %	53 - 55 %	
Zinc, Zn	4.0 - 6.0 %	4.0 - 6.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000346 ohm-cm	0.00000346 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	857.2 - 968.3 Å°C	1575 - 1775 Å°F	Brazing Temperature

Descriptive Properties	Value	Comments
Color	White	
Electrical Conductivity (% IACS)	49.8	

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