

Lucas-Milhaupt Silvaloy® 50N Brazing Alloy

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

Material Notes:

Silvaloy 50N is a modification of Silvaloy 50. It was originally introduced because of somewhat better corrosion resistance than Silvaloy 50 for certain conditions, and is still used for such purposes. It has proven successful on many marine applications and for dairy equipment which must withstand strong cleaning solutions. When melting, Silvaloy 50N passes from the solid to a mushy or plastic range and progressively to a liquid. The largest portion of Silvaloy 50N melts in the upper section of its temperature range. Therefore, the alloy has a good body while in the plastic range and is suitable for building fillets or bridging large gaps. Late melting of the major portion of the alloy also helps minimize any separation of the solid and liquid portions by liquation during melting. 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-50N-Brazing-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	9.49 g/cc	9.49 g/cc	
Density	9.49 g/cc	0.343 lb/in ³	

Thermal Properties	Metric	English	Comments
Melting Point	632 - 688 °C	1170 - 1270 °F	
Solidus	632 °C	1170 °F	
Liquidus	688 °C	1270 °F	
Maximum Service Temperature, Air	204 °C	400 °F	continuous
	316 °C	600 °F	intermittent

Component Elements Properties	Metric	English	Comments
Cadmium, Cd	15 - 17 %	15 - 17 %	
Copper, Cu	14.5 - 16.5 %	14.5 - 16.5 %	
Nickel, Ni	2.5 - 3.5 %	2.5 - 3.5 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	49 - 51 %	49 - 51 %	
Zinc, Zn	13.5 - 17.5 %	13.5 - 17.5 %	

Electrical Properties	Metric	English	Comments
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Electrical Resistivity Electrical Properties	0.00000958 ohm-cm Metric	0.00000958 ohm-cm English	Comments
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Processing Properties	Metric	English	Comments
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Processing Temperature	688 - 816 Â°C	1270 - 1500 Â°F	Brazing Temperature
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Descriptive Properties	Value	Comments
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Color	Light Yellow	
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Electrical Conductivity (% IACS)	18	
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China