

## Lucas-Milhaupt Silvacote® A50N Brazing Alloy

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

### Material Notes:

Silvacote A50N is a cadmium free silver brazing alloy that has found numerous applications for joining 300 series stainless steel in food, medical, and dental fields. Addition of nickel to the silver-copper zinc alloy imparts corrosion properties which retards joint or interface corrosion of the brazed assembly. The nickel element in Silvacote A50N also improves the bond strength when joining the tungsten carbide cutting tips. Typical applications are the joining of 300 series stainless steels in the food, medical, and dental fields. 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-Silvacote-A50N-Brazing-Alloy.php](http://www.lookpolymers.com/polymer_Lucas-Milhaupt-Silvacote-A50N-Brazing-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	8.98 g/cc	8.98 g/cc	
Density	8.98 g/cc	0.324 lb/in <sup>3</sup>	

Thermal Properties	Metric	English	Comments
Melting Point	660 - 707.2 Å°C	1220 - 1305 Å°F	
Solidus	660 Å°C	1220 Å°F	
Liquidus	707.2 Å°C	1305 Å°F	
Maximum Service Temperature, Air	371 Å°C	700 Å°F	

Component Elements Properties	Metric	English	Comments
Copper, Cu	17.3 - 19.3 %	17.3 - 19.3 %	
Nickel, Ni	1.53 - 2.33 %	1.53 - 2.33 %	
Other, total	<= 0.137 %	<= 0.137 %	
Silver, Ag	44.75 - 46.75 %	44.75 - 46.75 %	
Zinc, Zn	24.62 - 26.62 %	24.62 - 26.62 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00001175 ohm-cm	0.00001175 ohm-cm	

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

Descriptive Properties	Value	Comments
Color	Brown	
Electrical Conductivity (% IACS)	15	
Flux	7.5-10%	

## Contact Songhan Plastic Technology Co.,Ltd.

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