

## Lucas-Milhaupt Silvaloy<sup>®</sup> A56T Flux Coated Rod Brazing Alloy

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

### Material Notes:

Silvaloy A56T Flux Coated Rod has the lowest brazing temperature, best wetting, and best flow of all the cadmium free alloys. It has a slight plastic range which may be noticed during melting on some applications. Its low zinc content minimizes problems due to longer heating cycles or due to excessive heating. It is often selected for use on silver or stainless steel due to its excellent color match. 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-A56T-Flux-Coated-Rod-Brazing-Alloy.php](http://www.lookpolymers.com/polymer_Lucas-Milhaupt-Silvaloy-A56T-Flux-Coated-Rod-Brazing-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	9.49 g/cc	9.49 g/cc	
Density	9.492 g/cc	0.3429 lb/in <sup>3</sup>	
Water Absorption	15 - 35 %	15 - 35 %	

Thermal Properties	Metric	English	Comments
Melting Point	618.3 - 651.7 °C	1145 - 1205 °F	
Solidus	618.3 °C	1145 °F	
Liquidus	651.7 °C	1205 °F	
Maximum Service Temperature, Air	204 °C	400 °F	continuous
	316 °C	600 °F	intermittent

Component Elements Properties	Metric	English	Comments
Copper, Cu	21 - 23 %	21 - 23 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	55 - 57 %	55 - 57 %	
Tin, Sn	4.5 - 5.5 %	4.5 - 5.5 %	
Zinc, Zn	15 - 19 %	15 - 19 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000145 ohm-cm	0.0000145 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	651.7 - 760 Å°C	1205 - 1400 Å°F	Brazing Temperature

Descriptive Properties	Value	Comments
Boric Acid %	25-40	percentage of flux
Color	White	
Electrical Conductivity (% IACS)	11.9	
Potassium Bifluoride %	10-30.0	percentage of flux
Potassium Fluoride %	5-15.0	percentage of flux
Potassium Fluoroborate %	5-20.0	percentage of flux
Potassium Tetraborate %	15-25	percentage of flux

## Contact Songhan Plastic Technology Co.,Ltd.

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