

## Lucas-Milhaupt Silvaloy® A40T Brazing Alloy

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

### Material Notes:

Silvaloy A40T is a good general purpose, low melting, cadmium-free alloy, often selected for its low temperature, wetting and good flow. Silvaloy A40T has a lower brazing temperature with a relatively narrower melting range than other cadmium-free classifications with similar silver content. This alloy is particularly useful for joining steel, copper, and copper alloys. It has been proven most suitable for torch brazing with manual feeding into a joint where heating may not be consistent. It is also suitable for replacing as a ring or punching. It does not liquidate excessively if heated through its melting range. 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-A40T-Brazing-Alloy.php](http://www.lookpolymers.com/polymer_Lucas-Milhaupt-Silvaloy-A40T-Brazing-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	9.03 g/cc	9.03 g/cc	
Density	9.03 g/cc	0.326 lb/in <sup>3</sup>	

Thermal Properties	Metric	English	Comments
Melting Point	649 - 710 °C	1200 - 1310 °F	
Solidus	649 °C	1200 °F	
Liquidus	710 °C	1310 °F	
Maximum Service Temperature, Air	204 °C	400 °F	continuous
	316 °C	600 °F	intermittent

Component Elements Properties	Metric	English	Comments
Copper, Cu	29 - 31 %	29 - 31 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	39 - 41 %	39 - 41 %	
Tin, Sn	1.5 - 2.5 %	1.5 - 2.5 %	
Zinc, Zn	26 - 30 %	26 - 30 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000960 ohm-cm	0.00000960 ohm-cm	

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

Descriptive Properties	Value	Comments
Color	Pale Yellow	
Electrical Conductivity (% IACS)	18	

## Contact Songhan Plastic Technology Co.,Ltd.

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