

## Lucas-Milhaupt Silvaloy® 15 Brazing Alloy

Category : Metal , Nonferrous Metal , Copper Alloy , Solder/Braze Alloy

### Material Notes:

Silvaloy 15 is used for the brazing of copper and copper alloys, brass, and bronze. It can also be used on silver, tungsten and molybdenum. It is very effective for joining pipe and tubing and is widely used for electrical work. Applications The phosphorus content of Silvaloy 15 acts as a fluxing agent and no flux is necessary when brazing copper to copper joints. However, when used with a copper alloy or one of the other brazable metals, a brazing flux must be used to promote wetting, bonding, and flow throughout the joint. The flux used must be active within the required temperature range of Silvaloy and active throughout the heating cycle. 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-15-Brazing-Alloy.php](http://www.lookpolymers.com/polymer_Lucas-Milhaupt-Silvaloy-15-Brazing-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	8.44 g/cc	8.44 g/cc	
Density	8.44 g/cc	0.305 lb/in <sup>3</sup>	

Thermal Properties	Metric	English	Comments
Melting Point	643 - 801.7 °C	1190 - 1475 °F	
Solidus	643 °C	1190 °F	
Liquidus	801.7 °C	1475 °F	
Maximum Service Temperature, Air	149 °C	300 °F	continuous
	204 °C	400 °F	intermittent

Component Elements Properties	Metric	English	Comments
Copper, Cu	79.15 - 80.7 %	79.15 - 80.7 %	As balance
Other, total	<= 0.15 %	<= 0.15 %	
Phosphorous, P	4.8 - 5.2 %	4.8 - 5.2 %	
Silver, Ag	14.5 - 15.5 %	14.5 - 15.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000174 ohm-cm	0.0000174 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	704 - 816 °C	1300 - 1500 °F	Brazing Temperature

Processing Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Color		Light Copper	
Electrical Conductivity (% IACS)		9.9	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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