

## Lucas-Milhaupt BRAZE 603 Silver Based Cadmium Free Filler Metal

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

### Material Notes:

**Characteristics:** Braze 604 is a low temperature, low vapor pressure brazing filler metal formulated to meet the need for a composition free from volatile constituents, particularly essential in the brazing of vacuum tubes. The tin content of this filler metal improves its wetting characteristics on ferrous alloys over that obtainable with binary silver-copper filler metals. The tin addition also lowers the melting range versus binary silver-copper compositions. There is some tendency for the filler metal to liquate, but this is minimized by rapid heating to brazing temperature. **Applications:** Braze 603 is a silver-base brazing metal useful for making low temperature seals on vacuum tube components and for controlled atmosphere brazing of ferrous and non-ferrous alloys without flux. These filler metals are also recommended for brazing marine heat exchangers that are in contact with salt water, where there is a danger of dezincification to alloys containing zinc, particularly with joints on copper-nickel tubing. **Specifications:** This filler metals conform to the following specifications: AWS A5.8 BAg-18, ASME Boiler and Pressure Vessel Code Section II-C SFA 5.8 Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lucas-Milhaupt-BRAZE-603-Silver-Based-Cadmium-Free-Filler-Metal.php](http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-603-Silver-Based-Cadmium-Free-Filler-Metal.php)

Physical Properties	Metric	English	Comments
Density	9.82 g/cc	0.355 lb/inÂ³	

Thermal Properties	Metric	English	Comments
Melting Point	601.7 - 718.3 Â°C	1115 - 1325 Â°F	
Solidus	601.7 Â°C	1115 Â°F	Melting Point
Liquidus	718.3 Â°C	1325 Â°F	Flow Point

Component Elements Properties	Metric	English	Comments
Copper, Cu	>= 28.35 %	>= 28.35 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	59 - 61 %	59 - 61 %	
Tin, Sn	9.5 - 10.5 %	9.5 - 10.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.0000241 ohm-cm	0.0000241 ohm-cm	

Descriptive Properties	Value	Comments
Color	White	

## Contact Songhan Plastic Technology Co.,Ltd.

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