

Lucas-Milhaupt Silvaloy® 2M Brazing Alloy

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

Material Notes:

Silvaloy 2M 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 primarily used for the joining of copper-to-copper on vibration free joints. It is very effective for joining tight fittings and tubing.

Silvaloy 2M is extremely fluid at brazing temperatures and will penetrate joints with very little clearance. Applications: The phosphorus content of Silvaloy 2M 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 brazeable metals, a flux must be used to promote wetting, bonding, and flow throughout the joint. The flow point of Silvaloy 2M is 1325°F. 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-2M-Brazing-Alloy.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|--------------------------|----------|
| Specific Gravity | 8.03 g/cc | 8.03 g/cc | |
| Density | 8.03 g/cc | 0.290 lb/in ³ | |

| Thermal Properties | Metric | English | Comments |
|----------------------------------|----------------|----------------|--------------|
| Melting Point | 643 - 796.1 °C | 1190 - 1465 °F | |
| Solidus | 643 °C | 1190 °F | |
| Liquidus | 796.1 °C | 1465 °F | |
| Maximum Service Temperature, Air | 149 °C | 300 °F | continuous |
| | 204 °C | 400 °F | intermittent |

| Component Elements Properties | Metric | English | Comments |
|-------------------------------|---------------|---------------|----------|
| Copper, Cu | 91.3 - 91.7 % | 91.3 - 91.7 % | |
| Other, total | <= 0.15 % | <= 0.15 % | |
| Phosphorous, P | 6.3 - 6.7 % | 6.3 - 6.7 % | |
| Silver, Ag | 1.8 - 2.2 % | 1.8 - 2.2 % | |

| Electrical Properties | Metric | English | Comments |
|------------------------|------------------|------------------|----------|
| Electrical Resistivity | 0.0000229 ohm-cm | 0.0000229 ohm-cm | |

| Descriptive Properties | Value | Comments |
|------------------------|--------------|----------|
| Color | Light Copper | |

| Descriptive Properties | Value | Comments |
|----------------------------------|-------|----------|
| Electrical Conductivity (% IACS) | 1.3 | |

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