

Lucas-Milhaupt Silvabraz 33830 Brazing Alloy

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

Material Notes:

Silvabraz is used for 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 fitting copper pipe and tubing. Silvabraz should not be used on ferrous metals or copper alloys containing more than 10% nickel because of phosphorus embitterment due to reactions with iron or nickel. Silvabraz is extremely fluid at brazing temperatures and will penetrate joint with little clearance. Applications: The phosphorous content of Silvabraz 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 brazing flux must be used to promote wetting, bonding, and flow throughout the joint. 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-Silvabraz-33830-Brazing-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	8.805 g/cc	8.805 g/cc	
Density	8.08 g/cc	0.292 lb/in ³	

Thermal Properties	Metric	English	Comments
Melting Point	643 - 821 Â°C	1190 - 1510 Â°F	
Solidus	643 Â°C	1190 Â°F	
Liquidus	821 Â°C	1510 Â°F	
Maximum Service Temperature, Air	149 Â°C	300 Â°F	continuous
	204 Â°C	400 Â°F	intermittent

Component Elements Properties	Metric	English	Comments
Copper, Cu	92.3 - 93.25 %	92.3 - 93.25 %	As balance
Other, total	<= 0.15 %	<= 0.15 %	
Phosphorous, P	5.8 - 6.2 %	5.8 - 6.2 %	
Silver, Ag	0.80 - 1.2 %	0.80 - 1.2 %	
Tin, Sn	0.15 %	0.15 %	

Processing Properties	Metric	English	Comments
Processing Temperature	732 - 843 Â°C	1350 - 1550 Â°F	Brazing Temperature

Descriptive Properties	Value	Comments
Color	Light Copper	

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