

Lucas-Milhaupt Silvaloy® A34T Brazing Alloy

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

Material Notes:

Silvaloy A34T is used for joining ferrous metals, copper, copper alloys, nickel, nickel alloys and combinations of these metals. The tin content provides good wetting on many difficult wet metals such as stainless steel and tungsten carbide. This alloy, being free of Pb or Cd is preferred for long heating cycles and is suitable for use in controlled atmosphere brazing without flux. The largest use of this alloy is for furnace brazing although it is also suitable for other brazing procedures. 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-A34T-Brazing-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	9.10 g/cc	9.10 g/cc	
Density	8.98 g/cc	0.324 lb/in ³	

Thermal Properties	Metric	English	Comments
Melting Point	629.4 - 729.4 °C	1165 - 1345 °F	
Solidus	629.4 °C	1165 °F	
Liquidus	729.4 °C	1345 °F	
Maximum Service Temperature, Air	204 °C	400 °F	continuous
	316 °C	600 °F	intermittent

Component Elements Properties	Metric	English	Comments
Copper, Cu	35 - 37 %	35 - 37 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	33 - 35 %	33 - 35 %	
Tin, Sn	2.0 - 3.0 %	2.0 - 3.0 %	
Zinc, Zn	25.5 - 29.5 %	25.5 - 29.5 %	

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

Processing Properties	Metric	English	Comments
Processing Temperature	729.4 - 851.7 Â°C	1345 - 1565 Â°F	Brazing Temperature

Descriptive Properties	Value	Comments
Color	Pale Yellow	
Electrical Conductivity (% IACS)	17.5	

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