

Lucas-Milhaupt BRAZE 051 Silver Based Cadmium Free Filler Metal

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

Material Notes:

Characteristics: Braze 051 is a low cost, intermediate temperature silver brazing filler metal suitable for joining various ferrous and non-ferrous alloys that can be heated to 1650EF/900EC without damage. The relatively high flow point of this filler metal, combined with its high zinc content, tends to cause a rapid alloying of Braze 051 with non-ferrous alloys. For this reason, the time the brazing alloy is kept molten, in contact with the base metal, should be kept to a minimum. In furnace brazing, the heating cycle should be kept short to avoid excessive volatilization of the zinc with resultant formation of pinholes in the brazing alloy layer. **Applications:** The high flow point and narrow melting range of Braze 051 are useful for applications where the brazing and heat treating of ferrous alloys are combined in one operation. The alloy is useful for brazing Nichrome resistance wires because the brazing temperature is high enough to cause stress relief annealing of the Nichrome thus avoiding intergranular cracking. Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-051-Silver-Based-Cadmium-Free-Filler-Metal.php

Physical Properties	Metric	English	Comments
Density	8.48 g/cc	0.306 lb/in ³	

Thermal Properties	Metric	English	Comments
Melting Point	840.6 - 879.4 Â°C	1545 - 1615 Â°F	
Solidus	840.6 Â°C	1545 Â°F	Melting Point
Liquidus	879.4 Â°C	1615 Â°F	Flow Point

Component Elements Properties	Metric	English	Comments
Copper, Cu	57 - 59 %	57 - 59 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	4.5 - 5.5 %	4.5 - 5.5 %	
Zinc, Zn	36 - 38 %	36 - 38 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000706 ohm-cm	0.00000706 ohm-cm	

Descriptive Properties	Value	Comments
Color	Brass Yellow	

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