

Lucas-Milhaupt BRAZE 401

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

Material Notes:

Characteristics: Braze 401 is an intermediate temperature filler metal that may be used as a cadmium free substitute for Easy-Flo 30 or used in applications where an intermediate silver-copper-zinc alloy is needed. It liquates moderately, but this property is useful in bridging gaps where poor joint fitup cannot be avoided. It flows well on steels, copper and copper alloys. The use of Handy Flux or Handy Flux Type B-1 is recommended. **Applications:** Braze 401 is a good general purpose, intermediate temperature brazing alloy for use on copper, brass, nickel-silver, bronze and other nonferrous alloys as well as mild steel, stainless steel, nickel and Monel metal. **Specifications:** This filler metal conforms to the following specifications-SAE AMS-4762. Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-401.php

Physical Properties	Metric	English	Comments
Density	8.99 g/cc	0.325 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	232 MPa	33700 psi	Copper butt joint
	556 MPa	80700 psi	1020 Carbon Steel butt joint
	587 MPa	85100 psi	304 Stainless Steel butt joint
Elongation at Break	2.4 %	2.4 %	% in 2", 304 Stainless Steel butt joint
	22 %	22 %	% in 2", 1020 Carbon Steel butt joint
	40 %	40 %	% in 2", Copper butt joint

Thermal Properties	Metric	English	Comments
Melting Point	673.9 - 727 Â°C	1245 - 1340 Â°F	
Solidus	673.9 Â°C	1245 Â°F	Melting Point
Liquidus	727 Â°C	1340 Â°F	Flow Point

Component Elements Properties	Metric	English	Comments
Copper, Cu	29 - 31 %	29 - 31 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	39 - 41 %	39 - 41 %	
Zinc, Zn	28 - 32 %	28 - 32 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000840 ohm-cm	0.00000840 ohm-cm	

Descriptive Properties	Value	Comments
Color	Pale Yellow	

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