

Lucas-Milhaupt BRAZE 716 (VTG) Grade 2 Silver Based Cadmium Free Filler Metal

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

Material Notes:

Characteristics: Braze 716 is a nickel modified silver copper eutectic filler metal. The addition of nickel renders this alloy somewhat more sluggish in flow characteristics than the eutectic composition but improve the wettability on ferrous alloys. On either silver, nickel, or copper base alloys Braze 716 exhibits a decrease in fluidity and an increase in remelt temperature, after brazing, due to the solution of some base metal in the filler metal. Specifications: This filler metal conforms to the following specifications: AMS 4766, AWS A5.8 BVAg-8b, Grade 2. Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-716-VTG-Grade-2-Silver-Based-Cadmium-Free-Filler-Metal.php

Physical Properties	Metric	English	Comments
Density	10.0 g/cc	0.361 lb/in ³	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	207 - 241 MPa	30000 - 35000 psi	Copper butt joint
	241 - 276 MPa	35000 - 40000 psi	Nickel-Silver butt joint
	241 - 345 MPa	35000 - 50000 psi	Brass butt joint
	310 - 379 MPa	45000 - 55000 psi	1020 Steel butt joint
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	% in 2", Nickel-Silver butt joint
	8.0 - 12 %	8.0 - 12 %	% in 2", 1020 Steel butt joint
	10 - 19 %	10 - 19 %	% in 2", Copper butt joint
	13 - 25 %	13 - 25 %	% in 2", Brass butt joint

Thermal Properties	Metric	English	Comments
Melting Point	779.4 - 796.1 Â°C	1435 - 1465 Â°F	
Solidus	779.4 Â°C	1435 Â°F	Melting Point
Liquidus	796.1 Â°C	1465 Â°F	Flow Point

Component Elements Properties	Metric	English	Comments
Cadmium, Cd	<= 0.0020 %	<= 0.0020 %	
Carbon, C	<= 0.0050 %	<= 0.0050 %	

Component Elements Properties	Metric	English	Comments
Lead, Pb	<= 0.0020 %	<= 0.0020 %	
Nickel, Ni	0.30 - 0.70 %	0.30 - 0.70 %	
Other, each	<= 0.012 %	<= 0.012 %	
Other, total	0.050 %	0.050 %	
Phosphorous, P	<= 0.020 %	<= 0.020 %	
Silver, Ag	70.5 - 72.5 %	70.5 - 72.5 %	
Zinc, Zn	<= 0.0020 %	<= 0.0020 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000219 ohm-cm	0.00000219 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	796.1 - 899 Â°C	1465 - 1650 Â°F	Brazing Range

Descriptive Properties	Value	Comments
Color	Silver-White	

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