

Lucas-Milhaupt BRAZE 721 (VTG) Grade 1 Silver Based Cadmium Free Filler Metal

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

Material Notes:

Applications: Braze 721, a VTG version of Braze 720, is designed for all types of moderate temperature vacuum systems and particularly where maximum precautions must be taken to insure the presence of only a minimum amount of detrimental volatile impurities.

Specifications: This filler metal conforms to the following specifications: AWS A5.8 BVAg-8 Grade 1, ASME Boiler & Pressure Vessel Code, Sec. II-C, SFA 5.8 BAg-8 Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-721-VTG-Grade-1-Silver-Based-Cadmium-Free-Filler-Metal.php

Physical Properties	Metric	English	Comments
Density	9.96 g/cc	0.360 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

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

Component Elements Properties	Metric	English	Comments
Cadmium, Cd	<= 0.0010 %	<= 0.0010 %	
Carbon, C	<= 0.0050 %	<= 0.0050 %	
Copper, Cu	>= 26.838 %	>= 26.838 %	
Lead, Pb	<= 0.0020 %	<= 0.0020 %	
Other, each	<= 0.011 %	<= 0.011 %	
Other, total	0.050 %	0.050 %	
Phosphorous, P	<= 0.0020 %	<= 0.0020 %	
Silver, Ag	71 - 73 %	71 - 73 %	

Component Elements Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000220 ohm-cm	0.00000220 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	788 - 927 Â°C	1450 - 1700 Â°F	Brazing Range

Descriptive Properties	Value	Comments
Color	White	
Corrosion Resistance	0.28 Mgs/dcm ² /Day	Wet/Ammonia Gas, room temperature, closed container
	nil	Dry Ammonia Gas, room temperature, closed container

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