Lucas-Milhaupt BRAZE 720 Silver Based Cadmium Free Filler Metal

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

Material Notes:

Characteristics:Brazing 720 is the silver-copper eutectic composition and in melting it acts like a metallic element, i.e. it melts completely at a single temperature, thus it will quickly flow into long narrow joints. On either silver base of copper base alloys, Braze 720 exhibits a decreased fluidity and an increased remelt temperature due to the solution of either silver or copper in the eutetic. Brazing time and temperature should be minimized to prevent excessive diffusion and erosion of the base metal. This filler metal has limited wetting ability on iron and/on nickel base alloys. The wetting ability it does have is derived from its copper content. Both iron and nickel have practically no solubility in silver, while nickel is readily soluble in copper and the solubility of iron in copper is sufficient to provide wetting. It is an observed fact that the wetting obtained in good hydrogen atmospheres is superior to that derived from flux protection. Applications: Braze 720 is generally used to join silver, copper and nickel base alloys in reducing or inert atmospheres or vacuum. It is also widely used to join metallized ceramics to metals in vacuum. Specifications: This filler metal conforms to the following specifications: AWS A5.8 BAg-8, 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-720-Silver-Based-Cadmium-Free-Filler-Metal.php

Physical Properties	Metric	English	Comments
Density	9.96 g/cc	0.360 lb/in³	
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 °C	1435 °F	
Solidus	779.4 °C	1435 °F	Melting Point
Liquidus	779.4 °C	1435 °F	Flow Point

Component Elements Properties	Metric	English	Comments
Copper, Cu	26.85 - 28.85 %	26.85 - 28.85 %	
Other, each	0.15 %	0.15 %	
Silver, Ag	71 - 73 %	71 - 73 %	

Electrical Properties	Metric	English	Comments

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Electrical Properties	Metric 0220 ohm-cm	English7220 ohm-cm	Comments
Processing Properties	Metric	English	Comments
Processing Temperature	788 - 927 °C	1450 - 1700 °F	Brazing Range
Descriptive Properties	Value	Comments	
Color	White		
Corrosion Resistance	0.28 Mgs/dcm ² /Day	8 Mgs/dcm ² /Day Wet/Ammonia Gas, room temperature, closed container	
	nil	Dry Ammonia Gas, room temp	erature, closed container

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