

Lucas-Milhaupt BRAZE 541 Silver Based Cadmium Free Filler Metal

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

Material Notes:

Characteristics: Braze 541 is an intermediate temperature silver brazing alloy with a rather long, 235EF (130EC) melting range. It has a tendency to liquefy (i.e. separate into low and high melting constituents) if heated slowly through its melting range. Therefore, it is preferable to use this alloy where the assembly can be heated rapidly to brazing temperature. The long melting range of this alloy is useful when wide gap joints are hand fed since semi-fluid alloys can be worked across the gaps. **Applications:** Braze 541 is employed in numerous furnace brazing situations because of its low zinc content. The U.S. Air Force specifies it for many jet engine sub-assemblies. It is used for making joints that are subjected to elevated temperatures, ranging up to 700EF (370EC), particularly on stainless steel. **Specifications:** This alloy conforms to the following specifications-AWS A5.8 BAg-13, ASME Boiler & Pressure Vessel Code Sec. II C SFA-5.8 BAg-13, SAE AMS 4772 Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-541-Silver-Based-Cadmium-Free-Filler-Metal.php

Physical Properties	Metric	English	Comments
Density	9.63 g/cc	0.348 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
Elongation at Break	2.0 - 3.0 %	2.0 - 3.0 %	% in 2", Nickel-Silver butt joint
	10 - 19 %	10 - 19 %	% in 2", Copper butt joint
	13 - 25 %	13 - 25 %	% in 2", Brass butt joint
Shear Strength	48.3 MPa @Temperature 538 Â°C	7000 psi @Temperature 1000 Â°F	18-8 Stainless Steel butt joint
	103 MPa @Temperature 399 Â°C	15000 psi @Temperature 750 Â°F	18-8 Stainless Steel butt joint
	148 MPa @Temperature 260 Â°C	21500 psi @Temperature 500 Â°F	18-8 Stainless Steel butt joint

Thermal Properties	Metric	English	Comments
Melting Point	727 - 857.2 Â°C	1340 - 1575 Â°F	

Solidus Thermal Properties	727 Â°C Metric	1340 Â°F English	Melting Point Comments
Liquidus	857.2 Â°C	1575 Â°F	Flow Point

Component Elements Properties	Metric	English	Comments
Copper, Cu	39 - 41 %	39 - 41 %	
Nickel, Ni	0.50 - 1.5 %	0.50 - 1.5 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	54 - 55 %	54 - 55 %	
Zinc, Zn	4.0 - 6.0 %	4.0 - 6.0 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000346 ohm-cm	0.00000346 ohm-cm	

Descriptive Properties	Value	Comments
Color	White	

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