

## Lucas-Milhaupt BRAZE 300 Silver Based Cadmium Free Filler Metal

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

### Material Notes:

**Characteristics:** Braze 300 is an intermediate temperature silver brazing alloy with a fairly long (160EF/70EC) melting range. This long melting range is helpful when wide gap joints are brazed and is useful in producing large joint fillets to reduce the notch effect in stressed assemblies. Where the higher brazing temperature and characteristics of this alloy are permissible, the lower silver content affords a saving. Handy Flux should be used with this alloy. **Applications:** Braze 300 is a good general purpose, intermediate temperature brazing alloy for use on copper, brass, nickel-silver, bronze, steel and other nonferrous alloys melting above 1450EF (765EC). Uses include the brazing of nickel-silver hollow knife handles and electrical equipment. It is particularly adaptable to metal bath dip brazing of fine wires for radio, small transformer and electronics assemblies because its flow point matches the fluid temperature of borax. Borax is used as a metal bath flux cover because it is less corrosive to ceramic pot linings than Handy Flux. Braze 300 exhibits better stability than lower melting alloys when used for metal bath dip brazing. **Specifications:** This alloy conforms to the following specifications-AWS A5.8 BAg-20, ASME Boiler & Pressure Vessel Code Sec II-C, SFA-5.8 BAg-20 Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lucas-Milhaupt-BRAZE-300-Silver-Based-Cadmium-Free-Filler-Metal.php](http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-300-Silver-Based-Cadmium-Free-Filler-Metal.php)

Physical Properties	Metric	English	Comments
Density	8.84 g/cc	0.319 lb/in <sup>3</sup>	

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 - 310 MPa	35000 - 45000 psi	Brass butt joint
Elongation at Break	7.0 - 17 %	7.0 - 17 %	% in 2", Nickel-Silver butt joint
	15 - 25 %	15 - 25 %	% in 2", Copper butt joint
	16 - 31 %	16 - 31 %	% in 2", Brass butt joint

Thermal Properties	Metric	English	Comments
Melting Point	677 - 766 Â°C	1250 - 1410 Â°F	
Solidus	677 Â°C	1250 Â°F	Melting Point
Liquidus	766 Â°C	1410 Â°F	Flow Point

Component Elements Properties	Metric	English	Comments
Copper, Cu	37 - 39 %	37 - 39 %	

Other total Component Elements Properties	$\leq 0.15\%$ Metric	$\leq 0.15\%$ English	Comments
Silver, Ag	29 - 31 %	29 - 31 %	
Zinc, Zn	31 - 33 %	31 - 33 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000685 ohm-cm	0.00000685 ohm-cm	

Descriptive Properties	Value	Comments
Color	Light Yellow	
Corrosion Resistance	1115.5 Mgs/dcm <sup>2</sup> /Day	5% Sulphuric Acid Solution, 160°F, Constant Immersion
	13.9 Mgs/dcm <sup>2</sup> /Day	20% Sulphuric Acid Solution, Room Temperature, Constant Immersion
	15.57 Mgs/dcm <sup>2</sup> /Day	5% Sulphuric Acid Solution, Room Temperature, Constant Immersion
	15.7 Mgs/dcm <sup>2</sup> /Day	10% Sulphuric Acid Solution, Room Temperature, Constant Immersion
	181.1 Mgs/dcm <sup>2</sup> /Day	20% Sulphuric Acid Solution, 160°F, Constant Immersion
	207.6 Mgs/dcm <sup>2</sup> /Day	10% Sulphuric Acid Solution, 160°F, Constant Immersion

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