

## Lucas-Milhaupt BRAZE 53 (TEC) Silver Based Cadmium-Bearing Filler Metal

Category : Metal , Nonferrous Metal , Solder/Braze Alloy

### Material Notes:

**Applications:** This solder has been used where alloys melting higher than soft solders are required but the strength of standard solder brazing filler metals is not necessary. An example of this is the use in thermostatic bellows where the operating temperature is too high for soft solders and the bellows must be joined below their annealing temperature. A large use has been on small electric motors for soldering copper leads which would fail on overheating if soft soldered. Another use has been in soldering gun parts, replacing soft solders, In this case the advantages are strength at higher temperatures than soft solders can withstand and an increase in the corrosion resistance to alkaline solutions used in blackening gun barrels. Because of the high cadmium content of the filler metal, it should not be used for joining food containers. **Characteristics:** The flow point of Braze 503 is intermediate between soft solders and standard silver brazing filler metals. As a result, a special flux-Handy Flux Type TEC (a liquid flux) - has been developed for use with this filler metal, because the active temperature range of soft solder fluxes is too low while that of the silver brazing fluxes is too high. Braze 053, when used with Handy Flux Type TEC, will join such metals as copper, brass and steels. Information provided by Lucas-Milhaupt, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Lucas-Milhaupt-BRAZE-53-TEC-Silver-Based-Cadmium-Bearing-Filler-Metal.php](http://www.lookpolymers.com/polymer_Lucas-Milhaupt-BRAZE-53-TEC-Silver-Based-Cadmium-Bearing-Filler-Metal.php)

Physical Properties	Metric	English	Comments
Density	8.82 g/cc	0.319 lb/in <sup>3</sup>	

Thermal Properties	Metric	English	Comments
Melting Point	338 - 393 Â°C	640 - 740 Â°F	
Solidus	338 Â°C	640 Â°F	Melting Point
Liquidus	393 Â°C	740 Â°F	Flow Point

Component Elements Properties	Metric	English	Comments
Cadmium, Cd	>= 94.35 %	>= 94.35 %	
Other, total	<= 0.15 %	<= 0.15 %	
Silver, Ag	4.5 - 5.5 %	4.5 - 5.5 %	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	0.00000790 ohm-cm	0.00000790 ohm-cm	

Processing Properties	Metric	English	Comments
Processing Temperature	393 - 449 Â°C	740 - 840 Â°F	Brazing Range

Descriptive Properties	Value	Comments
Color	Gray	

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