

# MicroCoat Technologies

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Unparalleled in Polymer Coatings and Adhesives Technology™



## Product Data Sheet

### MCT A795-VHT

**APPROVED FOR A LANDING ON VENUS  
AT 450°C**

**An Electrically and Thermally Conductive,  
Silver Filled, Inorganic One-Part Adhesive for Use to  
>650°C**

**\*\*MAY NOT BE DIRECT BONDED TO GOLD**

- **Low Cure Temperature**
- **\*\*Semiconductor Die Attach with Moly Tab for “Down the Hole Hybrids” or attach to Headers, Ag, Ni, Pd/Ag, Al, etc.**
- **Silicon die (no gold on back) to power headers**
- **Ceramic-to-Ceramic Heat Sink Bonding**
- **Substrate Attach to Nickel Plated Packages**

Silver: 80% - 85% ~28 Micron  
Viscosity: Thixotropic Paste  
Pot Life: NA  
Shelf Life: 6 Months in original sealed container but it really depends on whether the paste is exposed to air. The more “air time” the shorter the shelf life  
Storage: Room Temperature (25C) **DO NOT FREEZE**

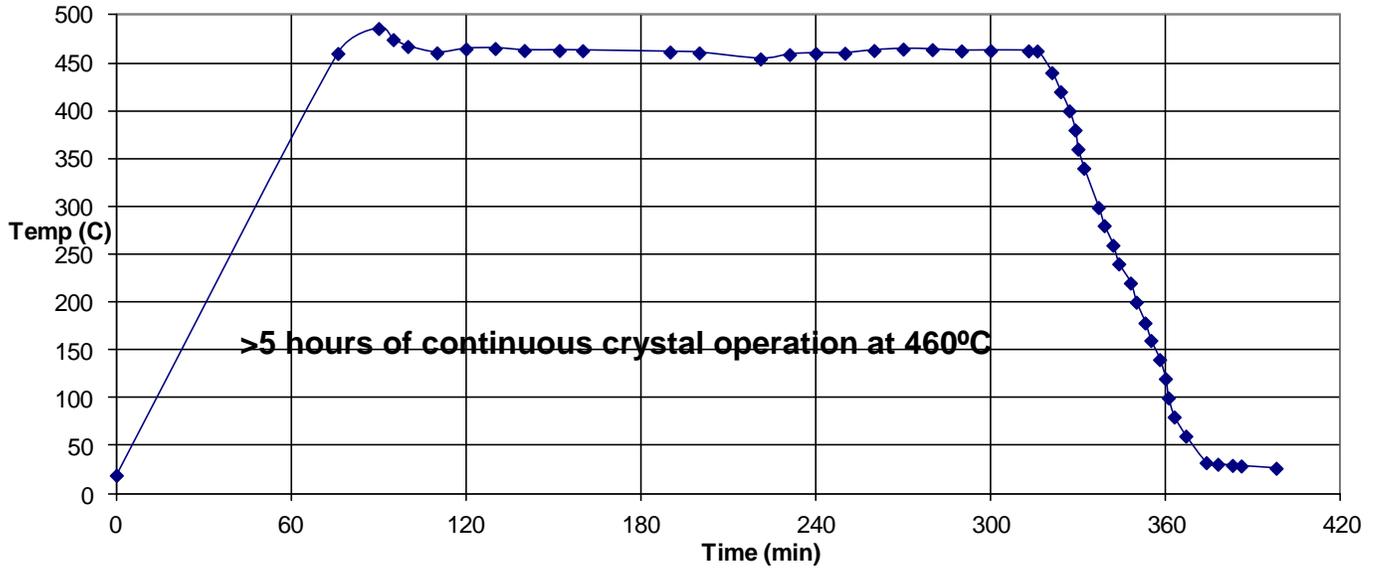
**Recommended Cure: 2 Hours Room Temperature Followed by 2 hours at 120C.**

**For Vacuum Sealing Applications:** ALL moisture is released between 300C-400C. After that there is absolutely no outgassing. Prior to final bake at temperature there are <.01ppm H<sub>2</sub>O moisture given off. It appears from lab testing that if you cure the product for an additional 2 hours at 150C (after 1-2 hours at 120C) this will eliminate any further moisture release

Temperature Resistance:	1200°F (649°C)
CTE, in/in/°F X 10 <sup>-6</sup> (°C)	9.6 (17.3)
Thermal Conductivity,	9.14 W/m-K)
Volume Resistivity (ohms-cm)	.00016

# MCT A795-VHT Extended Temp

## Temperature Profile



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