

# MicroCoat Technologies

1316 Somerset Drive McKinney, TX 75070 [www.m-coat.com](http://www.m-coat.com) Tel: 972-678-4950 Fax 214-257-8890

*Unparalleled in Polymer Coatings and Adhesives Technology™*

## Product Data Sheet

### MCT 3795-VHT

**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 Ag, Ni, Pd/Ag, etc.**
- **Catalytic Converters**
- **Ceramic-to-Ceramic Heat Sink Bonding**

**Silver:** 80% - 85% ~28 Micron

**Mix Ratio:** Single Component

**Viscosity:** Thixotropic Paste

**Pot Life:** NA

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

ALL moisture is released between 300C-400C. After that there is absolutely no outgassing. Prior to final bake at that temperature there are <.01ppm H2O 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,**  
**Btu-in/hr-ft<sup>2</sup>-°F** 63.1 (9.14 W/m-K)

**Volume Resistivity (ohms-cm)** .0002

**Shelf Life:** 6 months in sealed containers

**Supplied in syringes only**

**This material dries rapidly upon exposure to air**

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