

Product Data Sheet

RoHS/WEEE,



Product MCT 8462-64C

SYRINGE DISPENSABLE FLEXIBLE THERMALLY CONDUCTIVE EPOXY FOR MEM'S ATTACH

DESCRIPTION: MCT 8462-64C is a unique extremely flexible one-component, syringe dispensable, 100% solids, thermally conductive, electrically insulating epoxy adhesive used extensively for MEM's attach, and an encapsulant as well. This system features excellent thermal stability, chemical resistance and excellent high temperature properties. Unlike conventional thermally conductive epoxy adhesives, MCT 8462-64C is highly flexible and is able to absorb stress when bonding mismatched CTE substrates and pass stringent high temperature thermal cycles for automotive and aircraft products. MCT 8462-64C even displays some elastomeric properties. This material was originally manufactured specifically for Globtops, and Dams.

HANDLING AND CURING INSTRUCTIONS: If frozen remove product from freezer and allow material to warm to room temperature before opening container. Best results are obtained when curing at one of the following schedules:

100°C	1 hour
125°C	30 min

TYPICAL CURED PROPERTIES:

Filler	Aluminum Nitride
Consistency	Thick Liquid
Percent Filler	> 60 ¹⁶
Volume Resistivity, max. (Ω-cm)	1 X 10
Dielectric Constant (1KHz)	4.1
Dielectric Constant (1MHz)	3.9
Dissipation Factor (1KHz)	0.027
Dissipation Factor (1MHz)	0.038
Useful Temperature Range (°C)	-55 to +230
Thermal Stability (°C)	Good to +325
Thermal Conductivity (W/mK)	3.0
Hardness (Shore A, 100°C cure)	< 35
Hardness (Shore A, 175°C post cure)	< 60

STORAGE: Shelf life: < 4 days at 25°C; 6 months at -10°C

SAFETY & HANDLING: Use with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

The information contained herein, is, to the best of our knowledge accurate. However, MicroCoat Technologies, LLC does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. The information contained herein is considered typical properties and is not intended to be used as specifications for our products. This information is offered solely to assist purchasers in selecting the appropriate products for purchaser's own testing. All products may present unknown hazards and should be used with the proper precautions. Although certain hazards are described herein and in the Material Safety Data Sheets, we cannot guarantee that these are the only hazards that exist. Repeated and prolonged exposure to epoxy resins can cause sensitization or other allergic responses.