



AOS Thermal Compounds, LLC

Patent Pending

# MICRO-FAZE® K

## Dry Film Interface Material

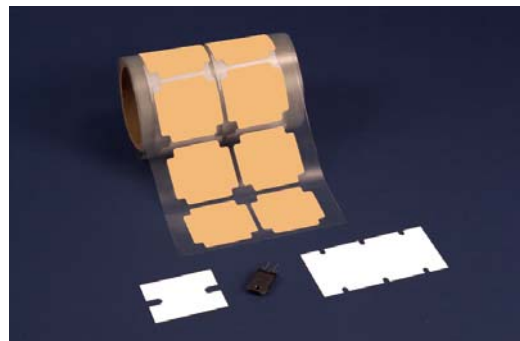
Product Code: 52047

### TECHNICAL DATA SHEET\*

#### THERMALLY CONDUCTIVE, ELECTRICAL INSULATOR

##### Product Description

MICRO-FAZE® K is a revolutionary thermal interface film formulated with **non-silicone thermal grease**. It was developed by AOS to offer the **lowest thermal resistance** in a thermal interface without the mess of grease. MICRO-FAZE K is a die-cut **polyimide insulating substrate** coated on both sides with specially formulated thermal grease (non-silicone, non-wax-based) that is naturally tacky but dry to the touch. It offers unique heat transfer and high insulating capabilities, and has a high cut-through resistance.



##### Product Features & Benefits

- MICRO-FAZE K retains all the unique advantages of thermal grease but in the form of a thermal interface film.
- Unlike phase change materials, MICRO-FAZE K requires **minimum force** to achieve total interface contact and **heat transfer starts at 25°C**.
- MICRO-FAZE K allows for **total “wetting action”** to fill all microscopic surface voids without changing phase.
- A positive coefficient of thermal expansion increases the wetting action for total interface contact.
- Offers maximum heat transfer capability and electrical isolation for power components.
- Excellent replacement for phase change materials and silicone pads.
- MICRO-FAZE K is a **“drop-in-place”** product for easy handling in a manufacturing environment.
- **Naturally tacky** film improves thermal performance and does not compromise thermal resistance.
- Microscopically changes to fill all microscopic voids on part surfaces.
- **Thixotropic** nature prevents run out.

##### Available Configurations

MICRO-FAZE K is available in rolls and can be die-cut to your exact specifications.

##### Typical Properties

Physical Properties	Value	Test Method
Substrate	Kapton®	----
Substrate Thickness, in.	0.002	----
Compound Thickness/side, in.	0.002	----
Total Thickness, in.	0.006	----
Thermal & Electrical Properties		
Thermal Resistance, °C in <sup>2</sup> /W	0.03	ASTM D-5470 (modified)
Dielectric Strength, V/mil (VAC)	2000 (12000)	ASTM D-149
Dielectric Constant, @ 1 KHz	3.7	ASTM D-150
Volume Resistivity, ohm-cm	1.01 x 10 <sup>15</sup>	ASTM D-257

*\*Preliminary Technical Data Sheet  
Micro-faze® is a registered Trademark of AOS  
Kapton® is a registered Trademark of Dupont*

Please know that customers are responsible for testing AOS Thermal Compounds materials for their proposed use. Any information furnished by AOS Thermal Compounds and its agents is believed to be reliable, but AOS Thermal Compounds does not guarantee the results to be accurate and makes no warranties as to the fitness, merchantability, or suitability of any AOS material or product for any specific or general use and shall not be held liable for incidental or consequential damages of any kind. (040201)