



AOS Thermal Compounds

U.S. Patent No. 6,475,962B1 & 6,900,163B2

MICRO-FAZE® K

Dry-to-touch Thermal Pad

Product Code: **52047**

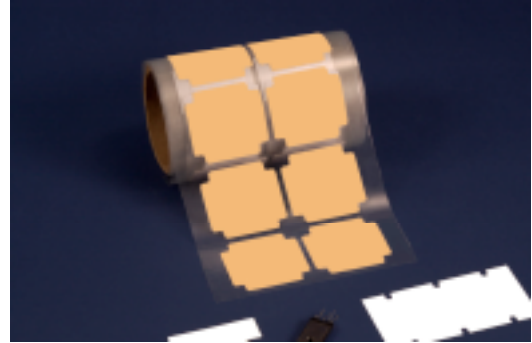


TECHNICAL DATA SHEET

THERMALLY CONDUCTIVE, ELECTRICAL INSULATOR

Product Description

MICRO-FAZE® K is a revolutionary dry-to-touch thermal interface pad 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.
- 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 MT®	----
Substrate Thickness, in.	0.002	----
Compound Thickness/side, in.	0.002	----
Total Thickness, in.	0.006	----
Thermal & Electrical Properties		
Thermal Resistance, °C-in ² /W	0.335	ASTM D5470
Thermal Conductivity, W/mK @ 6 mil	0.9	ASTM D5470
Dielectric Strength, Total Volts	10,220	ASTM D-149
Dielectric Constant, @ 1 KHz	3.7	ASTM D-150
Volume Resistivity, ohm-cm	1.01 x 10 ¹⁵	ASTM D-257

*Kapton® is a registered Trademark of Dupont

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