FUCHS Lubricants Co. Launches Thermal Interface Materials to Improve Electronics Heat Transfer

New portfolio combines material flexibility with application support to help manufacturers protect components and streamline production

FUCHS Lubricants Co., the world's largest independent lubricant manufacturer, announces the launch of FUCHS TIMs, marking its first entry into thermal interface materials and expanding beyond traditional lubrication into thermal management. Engineered to fill air gaps between heat-generating components and heat-dissipating surfaces, the materials improve heat transfer to reduce localized hot spots and support reliable electronic performance.

"As electronics become more compact and power-dense, manufacturers need thermal management materials that fit both the device design and the production process," said Soeren Bergner, Business Development Manager for Thermal Interface Materials at FUCHS. "Entering this market extends our specialty-materials expertise to a new engineering challenge."

The FUCHS TIM portfolio features several product lines with a focus on advanced dispensable solutions for our customers. FUCHS TIM greases combine high thermal conductivity with excellent surface wetting at low bond line thicknesses, reducing resistance to heat transfer while allowing component rework. Electrically conductive greases support microelectronic applications, while thermally conductive epoxies and potting compounds provide permanent bonding or encapsulation. Their low-shrinkage formulations help minimize mechanical stress on sensitive components.

For applications with wider gaps and more uneven surfaces, FUCHS TIM PUTTY fills gaps with minimal compression force to help protect pressure-sensitive components. Two-part FUCHS TIM LGF liquid gap fillers accommodate provide even more structural support and maintain mechanical stability under increased thermal and mechanical stress. As an alternative, pre-cured FUCHS TIM pads as customized die cuts provide a very clean installation for repeatable assembly processes.

Silicone and non-silicone formulations give manufacturers flexibility to match materials to their operating environments. Non-silicone options offer low outgassing where contamination could affect sensitive electronics, adhesion or coating quality. Depending on the product, compatibility with automated dispensing and screen printing supports integration into existing production processes.

The portfolio serves applications ranging from automotive control systems and power electronics to data center processors and semiconductor devices. FUCHS supports implementation with application engineering, testing assistance, staff training, standard and custom packaging, and guidance on dispensing methods and equipment. Its presence in more than 50 countries helps customers simplify global sourcing, with engineering support from design through production and beyond.

For additional information, please visit:
https://www.fuchs.com/us/en/products/product-program/special-application-lubricants/thermal-interface-materials/

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About FUCHS Lubricants Co.

Founded in 1931 as a family business in Mannheim, FUCHS is now the world's largest independent supplier of innovative lubrication solutions, covering almost every industry and application. Today, the company's 6,000 employees in over 50 countries still share the same goal: to keep the world moving both sustainably and efficiently. To live up to this claim, we think in terms of perfection, not merely standards. When developing individual solutions, we enter into an intensive customer dialogue – acting as an experienced consultant, innovative problem solver and reliable team partner.