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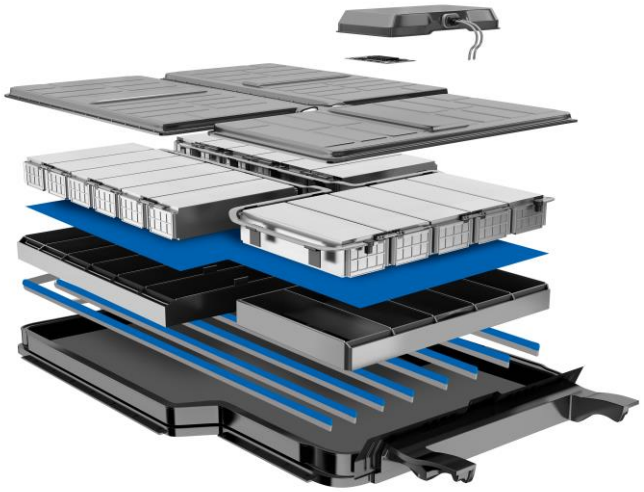
Thermal Interface Materials for EV Battery

Utilizing cutting-edge tools and technologies to solve today's most challenging problems, Gelest delivers custom-and customer-specific synthesis, specification, and surface treatment process capabilities ranging from the altering of surface chemistry for surface reactions to improving particle incorporation in formulations and inducing new surface properties.



Accelerating research and development to commercialization

With deep technical expertise and extensive analytical capabilities across organic, polymer, inorganic, and materials chemistries, the Gelest team possesses unique dexterity and the ability to develop and scale a wider range of products. Our technical teams work closely with the customer to understand and develop a solution that meets their specific chemistry and application needs. From inception to commercialization, Gelest is a partner you can trust.

Product Spotlight:

Advances in electric and hybrid vehicle designs have led to the densification of electrical components and increased power output. To maintain electronic device performance and longevity, the protective materials used in these devices must also push the limits of performance and be adaptable to new and smaller designs.

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Thermal Interface Materials

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Gelest specializes in custom-developing thermally conductive silicones for potting and encapsulating, gap filler, and adhesive applications. Some examples of specialty conductive silicones include:

- Gelest® PP2-TC01: 0.8 W/mK Thermally Conductive Adhesive
- Gelest® PP2-TC02: 1.15 W/mK Thermally Conductive Gap Filler
- Experimental Thermally Conductive Adhesive: 1.6 W/mK
- Gelest® PP2-TC03: 3 W/mK Thermally Conductive Gap Filler

Protection of electronic components from environmental exposure is critical to maintaining vehicle performance. The standard silicone gels currently used for environmental protection can crack, delaminate from surfaces, and decompose at high temperatures. Gelest has developed a range of gels for these types of dielectric applications that show improved performance in high heat conditions.

- Gelest® PP2-DG01, DG02, and DG03 Dielectric Gels

About Gelest

Gelest is a US-based innovator, manufacturer, and global supplier of specialty silicones, organosilanes, metal-organics, and acrylate monomers. We serve advanced technology markets, including medical devices, life sciences, coatings & adhesives, microelectronics, and personal care. Our mission is to contribute to customer success by developing cutting-edge chemical technology, products, and services to address society's most complex material science challenges. We drive value through innovation.

Contact a Gelest Technical Expert at info@gelest.com to learn more about our thermally conductive silicones and dielectric gels.