



Press Release

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Henkel's EV battery thermal management portfolio grows with new thermal interface materials

Henkel launches thermal gap filler and thermally conductive adhesive to improve EV battery thermal management

Düsseldorf – As electric vehicle battery systems continue to evolve toward higher energy densities, fast-charging capability and new architectures, effective thermal management is becoming increasingly critical. To support OEMs and battery manufacturers in meeting these challenges, Henkel has launched two new thermal interface materials for electric vehicle batteries: Bergquist TGF 2030APS, a silicone-free two-component thermal gap filler, and Loctite TLB 9270APS, a polyurethane-based two-component thermally conductive adhesive.

The materials are designed to help manufacturers manage the increasing performance requirements associated with modern EV battery systems while supporting high-volume, cost-efficient production.

Bergquist TGF 2030APS: high-speed application with lower energy demand

With 1.7 W/m·K thermal conductivity, Bergquist TGF 2030APS enables efficient heat dissipation from the battery cell stack into the cooling plate in EV battery modules. Dispensable at a high rate (over 40cc/sec), it can be used in sensitive battery applications thanks to its silicone-free formulation and low compression force, minimizing damage risk during assembly.

In addition, Bergquist TGF 2030APS is designed for a reduced carbon footprint, reflecting Henkel's strategic focus on developing low-emission, more sustainable product solutions. Its room-temperature curing capability further supports energy-efficient processing during assembly, helping manufacturers advance sustainability objectives without compromising performance or productivity.

Loctite TLB 9270APS: high-performance, thermally conductive bonding

Loctite TLB 9270APS is a two-component polyurethane-based adhesive for electric vehicles with cell-to-pack battery designs. It delivers 2 W/m·K thermal conductivity, along with high bond strength and electrical insulation properties, and is particularly well suited to aluminum and PET film substrates.

With rapid dispensing to support production throughput and energy efficiency, it offers a long working time (40-45 minutes in typical conditions). It is also solvent-free and formulated to comply with high regulatory and safety standards.

Innovation driven by the needs of the EV industry

“Henkel is a long-standing design and innovation partner to the e-mobility industry, with a track record of delivering cutting-edge thermal management solutions that perform in demanding environments,” says Dr. Tobias Knecht, Global Market Strategy Head for E-Mobility at Henkel. “As battery designs evolve fast – with increasing capacity and new architectures such as cell-to-pack and cell-to-chassis – we are committed to bringing manufacturers multi-functional and innovative thermal interface materials to meet these changing requirements. The launches of Bergquist TGF 2030APS and Loctite TLB 9270APS mark the latest step in fulfilling this commitment.”

Henkel will showcase its latest innovations and newly launched solutions for electric vehicle battery systems at The Battery Show Europe, taking place June 9–11 at Messe Stuttgart, Germany. At the event, visitors will have the opportunity to discover Henkel’s advanced thermal management technologies first-hand and explore a broad portfolio of materials designed to enable safer, higher-performing and more sustainable next-generation EV batteries.

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About Henkel

With its brands, innovations and technologies, Henkel holds leading market positions worldwide in the industrial and consumer businesses. The business unit Adhesive Technologies is the global leader in the market for adhesives, sealants and coatings. With Consumer Brands, the company holds leading positions especially in laundry & home care and hair in many markets and categories around the world. The company’s three strongest brands are Loctite, Persil and Schwarzkopf. In fiscal 2025, Henkel reported sales of about 20.5 billion euros and adjusted operating profit of around 3.0 billion euros. Henkel’s preferred shares are listed in the German stock index DAX. Sustainability has a long tradition at Henkel, and the company has a clear sustainability strategy with specific targets. Henkel was founded in 1876 and today employs a diverse team of about 47,000 people worldwide – united by a strong corporate culture, shared values and a common purpose: “Pioneers at heart for the good of generations.” More information at www.henkel.com

Photo material is available at www.henkel.com/press

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Graphic illustration of Bergquist TGF 2030APS thermal gap filler applied in an EV battery pack.



Graphic illustration of Loctite TLB 9270APS thermally conductive adhesive applied in an EV battery pack.