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dow.com

Dow to Showcase New and Proven Silicone Solutions for Advancing Automotive Electrification at The Battery Show Europe

Highlights of Dow's booth include a new gap filler for thermal management, and a live demonstration of a fast-curing adhesive dispensed with a Nordson bulk melter.

MIDLAND, Mich. – May 15, 2018 – Dow Performance Silicones, a global leader in silicones, silicon-based technology and innovation, returns this year to The Battery Show Europe (Stand 309) to showcase a broad and growing portfolio of cutting-edge solutions for the assembly, protection and thermal management of batteries powering today's electric and hybrid electric vehicles. In addition to launching DOWSIL™ TC-4535 CV Gap Filler at the show, Dow will share other highlights including a live, joint demonstration of dispensing equipment from Nordson, a leader in precision dispensing equipment.

Expanding its leadership in thermal interface materials, Dow launched DOWSIL™ TC-4535 CV Thermal Silicone Gap Filler, which offers 3.5W/mK thermal conductivity designed to meet the increasingly stringent thermal stability requirements for leading automotive applications. Commercially available worldwide, Dow's advanced new silicone technology delivers cost-effective heat management for next-generation designs in electronic powertrain systems. DOWSIL™ TC-4535 CV Gap Filler expands Dow's portfolio of soft, compressible, two-part silicone gap fillers, which can be dispensed directly from the original packaging or in larger format automated dispensing applications using standard meter mix equipment. In addition to its excellent flowability, the material holds its position in vertical applications. Able to be cured at room temperature cure, DOWSIL™ TC-4535 CV Gap Filler also offers accelerated cure rates with the application of heat, enabling reduced manufacturing cycle times and improved productivity.

The live demonstration at Dow's booth features Nordson's VersaPail® bulk melter, which will dispense Dow's recently introduced DOWSIL™ EA-5151 Quick in Connect (QiC) Assembly Adhesive. This advanced silicone combines fast green strength at room temperature, offering a more efficient alternative to heat-cured adhesives, double-sided tapes and mechanical fasteners. Nordson Corporation engineers, manufactures and markets differentiated products and systems used to dispense, apply and control adhesives, coatings, polymers, sealants, biomaterials, and other fluids, to test and inspect for quality, and to treat and cure surfaces.

Stand 309 will also highlight advanced silicone foams from Dow that help improve manufacturing productivity. Select grades, for example, can be dispensed and cured directly on parts to form an integrated compression gasket. Dow's product family offers silicone foams with a variety of densities and rheologies to offer customers greater control over foaming height relative to flat or inclined surfaces. All silicone foams from Dow deliver a low compression set and maintain their resiliency over a broad temperature range.

Dow recently renamed under the new DOWSIL™ brand its portfolio of solutions based on the heritage Dow Corning silicone technology platform. The Dow team will be on hand during The Battery Show Europe to discuss the activities and feature products highlighted above, as well as other robust battery solutions, including thermally conductive gap fillers for battery packs, and encapsulants, gels and sealants for battery control units and on-board chargers.

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Scheduled to run from May 15-17 to 6 at Deutsche Messe in Hannover, Germany, The Battery Show Europe is the leading advanced trade fair and conference for manufacturing solutions along the battery industry's entire supply chain, including relevant materials, manufacturing, equipment, components, testing and recycling.

About Dow Performance Silicones

Performance Silicones, a unit within Dow's Consumer Solutions business, delivers a portfolio of performance-enhancing solutions to serve the diverse needs of customers and industries around the world. From transportation and lighting to building and construction and chemical manufacturing, Dow's Performance Silicones business helps our customers solve their most challenging problems. As a global leader in innovation and silicon-based technology, we are committed to bringing new solutions to the market that do more for our customers and continue to improve the lives of consumers worldwide. Visit <https://consumer.dow.com/en-us.html> to learn more.

About Dow

The Dow Chemical Company (Dow) combines science and technology knowledge to develop premier materials science solutions that are essential to human progress. Dow has one of the strongest and broadest toolkits in the industry, with robust technology, asset integration, scale and competitive capabilities that enable it to address complex global issues. Dow's market-driven, industry-leading portfolio of advanced materials, industrial intermediates, and plastics businesses deliver a broad range of differentiated technology-based products and solutions for customers in high-growth markets such as packaging, infrastructure, and consumer care. Dow is a subsidiary of DowDuPont (NYSE: DWDP), a holding company comprised of Dow and DuPont with the intent to form three strong, independent, publicly traded companies in agriculture, materials science and specialty sectors. More information can be found at www.dow.com.

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