**Electric Alignment: Collaboration Leads to New Battery Solutions**

**Freudenberg Sealing Technologies announces three new battery innovations at the 2024 Battery Show in Detroit**

**Detroit, MI., (USA), September 25, 2024 – Global sealing supplier Freudenberg Sealing Technologies is showcasing its automotive battery life cycle solutions – including three new innovations – at the 2024 Battery Show. The show will be held at Huntington Place in Detroit from Oct. 7 to 10.**

At its booth (5208), the company will demonstrate its innovative solutions aimed ataddressingseveral crucial areas in the lifecycle of a battery, including cell manufacturing, module and battery systems development, and battery system vehicle integration. During the show, Freudenberg Sealing Technologies will introduce three unique new products in its battery product family – advanced thermal barriers, prismatic battery cell caps, and prismatic envelopes.

“Mobility is changing, and Freudenberg is moving in stride with it,” said Ulrich Huth, President, Automotive Sales, Freudenberg Sealing Technologies. “As an established industry leader with deep knowledge in vehicle battery technology, quality, and safety requirements, we are producing cutting-edge products that solve customers’ mobility challenges.”

**Company partnerships help drive innovations**

Freudenberg Sealing Technologies’ Battery Protective Covers and Mats serve as Thermal Barriers, designed to contain thermal runaway and prevent thermal propagation throughout the battery. These thermal barriers are crafted from unique materials that withstand high-temperature venting gases, endure abrasive conditions, and offer electrical insulation. Leveraging their materials expertise, and extensive experience in high-volume automotive manufacturing, the company develops solutions tailored to meet customers’ precise specifications.

 In 2023, Freudenberg Sealing Technologies also introduced 3D Thermal Barriers made of high-temperature resistance plastics and elastomers that are used to shield and protect critical components during thermal runaway events. Like the new Battery Protective Covers and Mats, the 3D Thermal Barriers feature customizable geometries suitable for various positions within the battery.

Freudenberg Sealing Technologies’ new battery cell cap design, with an elastomeric sealing solution for prismatic and cylindrical battery cell manufacturers, improves performance and safety; resists short-term, high-temperate load; and adheres to environmental regulations. These custom-designed cell caps have been developed in collaboration with cell manufacturers and are manufactured on site for the local market with the lowest possible carbon footprint, and in accordance with automotive standards.

The company has also designed a drop-in cell envelope solution that optimizes battery performance. Freudenberg’s new design – which consists of innovative nonwoven materials that wrap the cell stack films – underscores the company’s commitment to innovation, as well as enables efficiency, durability, and performance in cell manufacturing.

“These products will help shape the future adoption of developing propulsion systems, ranging from passenger vehicles to trucks and buses,” said Marco Sutter, Global Market Segment Manager, Automotive, Freudenberg Sealing Technologies. “We look forward to engaging with existing and potential new customers at the Battery Show to demonstrate how our innovations offer reliable and superior performance.”

**Many Freudenberg products will share the show limelight**

Other product innovations will also be on display at Freudenberg Sealing Technology’s booth, as well as several sealing innovations, such as busbar flame protection and sealing solutions, gaskets, heatshield products, and the DIAvent® intelligent pressure compensation family of elements.

Three other Freudenberg Group companies will join Freudenberg Sealing Technologies at its booth, including Freudenberg Performance Materials, Freudenberg Filtration Technologies, and the SurTec Group. Freudenberg Performance Materials will showcase its Battery Pack Liquid Absorbers. Freudenberg Filtration Technologies, which is attending the show for the first time, will display its latest application-optimized air filtration solutions. The SurTec Group will have global solutions for industrial parts cleaning, metal pretreatment and electroplating on display at the booth.

“Freudenberg Sealing Technologies is a vertically integrated manufacturer,” Huth commented. “This means we have control over every aspect of the product production cycle, from the materials used to the final assembled components that are shipped to customers.

“This provides a significant value for customers concerned about quality and reliability,” Huth concluded. “Our customers become our partners, and we collaborate closely with them to meet and exceed their needs.”

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**About Freudenberg Sealing Technologies**

Freudenberg Sealing Technologies is a longstanding technology expert and market leader for sophisticated and novel applications in sealing technology and electric mobility solutions worldwide. With its unique materials and technology expertise, the company is a proven supplier for demanding products and applications, as well as a development and service partner to customers in the automotive industries and in general industries. In 2023, Freudenberg Sealing Technologies generated sales of about 2.55 billion euros and employed more than 13,000 people. More information at [www.fst.com](http://www.fst.com).

The company is part of the global Freudenberg Group which has four business areas: Seals and Vibration Control Technology, Nonwovens and Filtration, Household Products as well as Specialties and Others. In 2023 the Group generated sales of more than 11.9 billion euros and employed more than 52,000 associates in around 60 countries. More information is available at [www.freudenberg.com](http://www.freudenberg.com).

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