

## From battery cells to battery packs: Evonik presents comprehensive portfolio for electric vehicle batteries at China International Battery Fair 2023

- Showcase of a comprehensive portfolio for safer and long-living electric vehicle (EV) batteries
- Constant endeavour to develop next-generation EV battery materials and technologies
- Evonik at China International Battery Fair (CIBF): Booth 6GT059, Shenzhen World Exhibition & Convention Center

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At CIBF 2023, Evonik, one of the world's leading specialty chemical companies, will present a broad range of chemicals and high-performance materials for electric vehicle batteries. With additives, process enablers and ready-to-use products, Evonik improves the performance of a wide spectrum of components in batteries cells and packs, supporting its customers to boost functions and performances of their offerings across the entire EV battery value chain.

"China's targets to reach carbon neutrality accelerate the innovation of the EV battery industry. We focus on developing Next Generation Solutions that drive the advancement of EV battery performances," commented Fuliang Xia, President of Evonik Greater China. "We initiate partnership programs with local partners and customers to capitalize on market potentials and address the regional megatrends."

The company's EV battery solutions presented during the CIBF include:

### Optimize material properties for light weight battery packs

**VESTALITE® S curing agent**, a high-performance solution for sheet molding compound (SMC) material with low VOC. Its unique properties make it suitable for automotive applications in large scale automated manufacturing such as battery enclosure.

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**ANCAMIDE® & ANCAMINE®**, a high-performance two-component amine curing agent products for various types of battery adhesives, providing a variety of solutions addressing different performance needs.

**NOURYBOND® 392**, an excellent adhesion promoter, designed specifically for Aluminium alloy surface used in EV car battery packs with low temperature baking circles.

### **Improve performance, lifetime and production efficiency of battery cells**

**AEROXIDE® Alu 130, AEROXIDE® TiO2 P 25**, are used for cathode material surface coating to stabilize cathode active material particles, and to avoid cracks during charge/discharge, resulting in an increased capacity retention and enhanced battery life.

**AEROXIDE® Alu 45**, enables the use of ultra-thin ( $\leq 1 \mu\text{m}$ ) and homogeneous ceramic coatings or is applied as ceramic filler inside the membrane, resulting in an improvement of thermal stability of the separator.

**TEGO® SURTEN E**, the process enablers contribute to improve the production of Lithium batteries which yield better electrical performance and lower overall costs. Evonik's broad surfactant technology platform offers products from wetting and dispersing agents to defoamers as well as flexing agents.

### **Achieve ideal thermal management for EV batteries**

**AEROSIL® & AEROXIDE®**, used in silicones, adhesives, sealants and thermal insulation materials in battery packs, can significantly improve thermal stability, thermal conductivity, and thermal insulation.

**Silicone raw materials for filler treatment**, offer high flexibility to build optimal formulation with desired viscosity, curing speed,

hardness and high performance. It can achieve better thermal conductivity and flame retardancy.

Evonik is not only a materials supplier but a partner in innovation for the electric vehicle battery industry. Our global lithium-ion battery center was set up in Shanghai in 2022. It merges the expertise across various businesses to develop innovative materials for batteries with a higher energy density, safer performance and longer life.

Recently, Evonik announced the investment in a production plant expansion for fumed aluminum oxide at its site in Yokkaichi, Japan. The construction will start in summer 2023 and the plant will be operational in 2025. The facility will be the company's first alumina plant in Asia, focusing on the production of specialty solutions for lithium-ion battery technologies, used for electric vehicles.

Visit Evonik's stand 6GT059 at CIBF Hall 6 of Shenzhen World Exhibition & Convention Center to learn more about the company's portfolio for EV battery.

#### **Company information**

Evonik is one of the world leaders in specialty chemicals. The company is active in more than 100 countries around the world and generated sales of €18.5 billion and an operating profit (adjusted EBITDA) of €2.49 billion in 2022. Evonik goes far beyond chemistry to create innovative, profitable, and sustainable solutions for customers. About 34,000 employees work together for a common purpose: We want to improve life today and tomorrow.

Asia Pacific is a strong driving force of the global economy and an important source of innovation. Consequently, Evonik endeavors to further grow its business in the region. Sales reached €3.78 billion in 2022 and the company employs around 5,200 people at more than 50 sites in Asia Pacific.

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