



PRESS RELEASE

H.C. Starck Tungsten and ZSW collaborate on tungsten in lithium-ion batteries **Influence of tungsten-based cathode coatings on electrochemical performance**

Goslar, GERMANY, June 14, 2022 – [H.C. Starck Tungsten Powders](#), a subsidiary of the [Masan High-Tech Materials Group](#), and the Center for Solar Energy and Hydrogen Research Baden-Württemberg ([ZSW](#)) are jointly investigating the use of tungsten-based cathode coatings in lithium-ion batteries. After various tungsten precursors were first systematically examined for their suitability, the first coating tests have now started. This will be followed by electrochemical investigations.

"We know from the current scientific literature that tungsten-based coatings significantly increase the cycle stability of a lithium-ion battery even with very small weight fractions," says Julia Meese-Marktscheffel, Head of Technology & Innovation Global at the company. "There is also strong evidence that tungsten-coated cathode materials can reduce gas development within the battery and thus increase its safety. In a first step, in cooperation with the ZSW, we want to understand these modes of action comprehensively. If the results are positive, in a second phase we plan to develop tailor-made tungsten chemicals for improved performance and safety in batteries."

CEO Hady Seyeda adds: "We see this collaboration as an important step in the evolution of elements such as tungsten in battery development and use. With the global EV push, making batteries safer and improving their performance is a critical element of wider adoption and application."

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About H.C. Starck Tungsten Powders

H.C. Starck Tungsten Powders is the world's leading manufacturer of high-quality tungsten powder tailored to individual customer needs. The company combines a century of experience in tungsten processing with high innovative power and technological expertise. Decades of experience in recycling and access to the world's largest tungsten reserves outside of China, owned by the company's parent group Masan High-Tech Materials, ensure stable supply with conflict-free raw materials. H.C. Starck Tungsten Powders employs around 540 people at three production sites in Germany, Canada and China plus sales offices in the U.S. and Japan. The company's headquarters is at its largest production site, in Goslar, Germany.
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