



## Press release

# H2EXSTOP: Safe hydrogen technology for the energy transition

Project for the development of composite materials for explosion isolation

Haver & Boecker OHG is participating in the pioneering **H2EXSTOP** project, which was launched in April 2024 and is funded by the German Federal Ministry of Education and Research. The project's goal is to establish fundamental principles for explosion isolation when using hydrogen across the entire value chain – from production and storage to transport and utilization.

The project's focus is on the development and characterization of composite materials that serve as a key component in protection and safety concepts for explosion isolation. Haver & Boecker contributes its decades of expertise: “Composite materials made from wire mesh have been used in explosion protection applications for years,” explains Frank Meyer, Head of Research and Development at Haver & Boecker's Wire Weaving Division. “Through the H2EXSTOP project, we are advancing these key technologies to meet the specific requirements of hydrogen applications, making a significant contribution to the energy transition.”

Based on these composite materials, fundamental safety and protection concepts will be developed for selected applications, and their suitability will be tested through explosion and endurance burning tests. Ultimately, the aim is to establish basic concepts for explosion isolation mechanisms for hydrogen, which will serve as a foundation for the development of solutions that can be standardised.

The project consortium brings together experts from science and industry, including Haver & Boecker OHG, the Physikalisch-Technische Bundesanstalt (PTB), the Ernst Abbe University of Applied Sciences Jena, R. STAHL Schaltgeräte GmbH, and PROTEGO Braunschweiger Flammenfilter GmbH. Together, the project partners are laying the groundwork for explosion-proof hydrogen technologies, enhancing the competitiveness of German companies on a global scale.

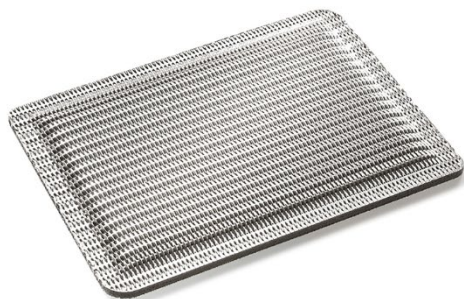
### **About the Project**



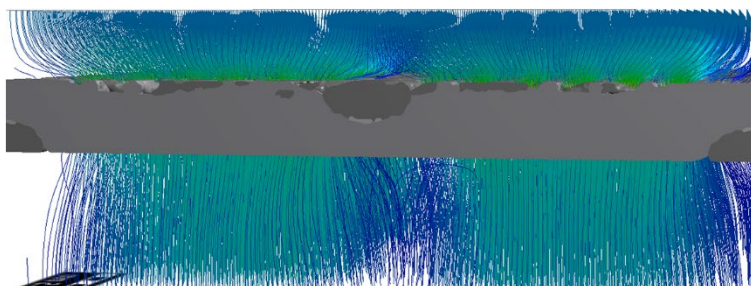
The project was launched in spring 2024, will run for three years, and has a total budget of 2.6 million euros. The German Federal Ministry of Education and Research is funding the project with 1.8 million euros, with the remaining financing provided by the participating companies.

### **About Haver & Boecker OHG**

The family-owned mid-sized company, headquartered in Oelde, Westphalia, was founded in 1887. Today, the company operates two divisions: Wire Weaving and Machinery Division. Haver & Boecker's Wire Weaving Division, with its global network of subsidiaries and production facilities, is one of the world's leading manufacturers of industrial woven wire cloth. Its product range includes thousands of different wire mesh types, which can be processed into technical wire mesh products. These are used for screening and filtration in industries such as chemicals, plastics, automotive, aerospace, electronics, industrial and analytical screening, food production, water treatment, as well as for architectural applications.



Pressed wire mesh element from electrical cabinet construction



Flow paths in a multilayer mesh

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