

Göppingen, Germany | October 7, 2024

## PRESS RELEASE

### **WDBSD CF®: A Sustainable Alternative for High-Performance Products** **Technikum Laubholz Revolutionizes Material Development with Wood-Based Carbon Fibers**

**Göppingen, Germany | October 7, 2024** – The opening of a state-of-the-art pilot plant at Technikum Laubholz marks the beginning of the first production phase of **WDBSD CF® – Woodbased Carbon Fiber**.

WDBSD CF® represents a new generation of environmentally friendly materials that combine sustainability with solid performance. With a clear focus on ecological and economic efficiency, Technikum Laubholz is setting new standards in material and process development and making a significant contribution to sustainable change. The technology uses renewable resources from regional sources to reduce dependence on fossil fuels and minimize environmental impact.

WDBSD CF® fibers enhance the property profile of conventional carbon fibers by providing high strength and low weight while aiming to reduce the ecological footprint. WDBSD CF® carbon fibers provide a sustainable solution for industrial applications where both technological performance and environmental friendliness are required.

The introduction of WDBSD CF® sets a new benchmark in product development. The wood-based carbon fibers are characterized by high thermal resistance, electrical conductivity, and mechanical strength, making them suitable for technical applications. As a result, WDBSD CF® carbon fibers are ideal for a wide range of applications, including sports equipment, musical instruments, lightweight components for aerospace and transportation interiors, innovative structural designs, and energy storage systems.

The opening of the pilot plant for the production of WDBSD CF® marks the beginning of a new era in fiber technology. Technikum Laubholz reaffirms its position as a leader in bringing sustainable technologies to market and opens up new opportunities for technology transfer and cross-industry collaboration.

**Quotes from Key Figures:**

"WDBSD CF® technology opens up new opportunities for companies to create sustainable solutions for a wide range of products. It addresses current demands for resource efficiency, independence from global supply chains, and substitution of fossil resources."

**Dr. Ing. Tobias Wolfinger** | CEO Technikum Laubholz.

"WDBSD CF® technology significantly reduces energy consumption in fiber production while providing excellent mechanical properties that are crucial in technical applications."

**Dr. Rolf Moors** | Head of Fiber-Based Biopolymer Materials at Technikum Laubholz

"WDBSD CF® allows us to expand the property profile of carbon fibers without relying on fossil resources. While conventional carbon fibers remain relevant, wood-based carbon fiber offers an environmentally friendly and highly effective alternative with its thermal resistance, excellent mechanical properties and electrical conductivity."

**Erna Nawrath** | Fiber Development Specialist at Technikum Laubholz

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**About Technikum Laubholz:**

Technikum Laubholz (TLH) is the first independent, non-university institution in Baden-Württemberg dedicated to cutting-edge research on the renewable resource wood. Founded on the initiative of the Baden-Württemberg Ministry of Nutrition, Rural Areas and Consumer Protection, TLH combines basic research with industrial applications and develops innovative processes and products from hardwood. TLH aims to make a significant contribution to climate protection by utilizing this sustainable resource and creating future-oriented solutions. In four specialized research areas, interdisciplinary teams work on visionary applications that were previously unthinkable. With its creative research approach, TLH accelerates the market readiness of innovations and actively contributes to a more sustainable future.

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