

Waste today, space-age material tomorrow?

Edible carbon fibre, anyone? Gewerbemuseum Winterthur's new exhibition introduces the futuristic new class of monomaterials from Arkio Industries Ltd: 100% natural, fully reusable, biodegrading, while stronger than steel, flame-retardant and non-toxic.

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1 March — 1 September 2024 Blut und Staub: Gewerbemuseum Winterthur exhibition showcases the new proprietary, patent-pending 100% cellulose profiles, sandwich structures, pipes etc. invented by the biomaterials start-up Arkio Industries Ltd (active in Switzerland, Finland, Germany). The company's revolutionary process promises to enable **localised production of high-tech materials from forestry and agricultural waste** with minimal processing.

As the exhibition pieces exemplify, at first the new material is made available for demanding technical applications such as interior design and furniture, to expand into construction while production scales up.

The completely new material class of solid cellulose structures competes with glass or carbon fibre composites in general properties such as strength and look and feel, while surpassing most materials when it comes to circularity. Arkio Industries offers full take-back model for its materials, since everything produced can be readily re-used as process feedstock. The Arkio Industries micro/nanocellulose technology is based on a decade of research in Finland by inventor Ms Tiina Härkäsalmi, PhD.

Our Earth runs on cellulose. It is the planet's most abundant biopolymer, the whole ecosystem is primed to use and recycle cellulose. Humans have benefited from the strength and recyclability of cellulose by using wood construction techniques for 500.000 years!

For further information, interview opportunities, media materials enquiries:

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