



WORLD WIDE WEAVE

## **It's the right mix that counts**

Treading new paths with hybrid mesh from GKD

**It doesn't always have to be synthetic mesh: many fields of application place increasingly challenging demands on the media used. GKD – GEBR. KUFFERATH AG, the world market leader in application-specific, high-performance mesh made of metal and other industrially weavable materials, has efficient and lasting solutions here. The Industrial mesh business unit will present its end-to-end consulting, development and manufacturing expertise at the Techtexil trade fair in Frankfurt from May 9 to 12. The wide range of weave types and material combinations also opens up new solutions in areas in which metal mesh has not yet been used for optimizing products or processes. The latest examples are hybrid mesh and the new optimized dutch weaves (ODW), which GKD will present at the world's leading trade fair for technical textiles and nonwovens. These tap a broad range of potential – from waste water filtration to carpets – and provide the inspiration for lateral thinkers to come up with new solutions.**

Whether mesh structures, components or filtration systems: with products individually designed for the respective application, GKD continuously expands application or performance boundaries and thereby opens up new possibilities for users. These solutions draw their extra efficiency, formability and safety from the mechanical strength of the metal mesh structures, which are manufactured using special machines. Thanks to the ability to precisely configure properties such as drip, roughness or pore size as well as multiple layers with multifunctional properties, the high-performance mesh is the long-awaited problem solver for many applications.



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### **Hybrid mesh**

GKD shows how attractive a high-tech solution can be with a new hybrid mesh for carpets. This couples the typical hair yarn-style appearance of the Perlon Rips woolen yarn from ANKER, which is woven from polyamide fibers, with the typical properties of stainless steel. The warp and weft wires made of stainless steel – combined with woolen yarn in the weft direction – are the defining feature of this innovative mesh structure. Through this combination of Perlon Rips with shimmering stainless steel, carpets produced using this technique offer a new experience in both look and feel. In terms of functionality it impresses due to its strength and shielding from electromagnetic radiation while also maintaining the flexibility typical of a carpet. GKD views this latest example of the possibilities offered by technical weaving as an invitation to discuss new ideas and applications at the Techtextil fair. After all, the weave specialist uses intelligent blends of materials such as aramid, basalt, glass, ceramic or polymers with metal wires and fibers when developing and manufacturing high-performance mesh structures, thereby combining properties that are normally mutually exclusive in one product and often realizing significant cost savings. For example, the mix of process-relevant material properties in a hybrid mesh can replace time- and cost-intensive special coatings. Alongside a textile feel or metallic conductivity, properties such as mechanical stability, reduced weight, good cleaning behavior, fine separations or specific surface enlargements can be optimally combined with one another.

### **Optimized dutch weaves**

In the form of optimized dutch weaves, GKD offers a mesh structure for demanding tasks in ultrafine filtration that has proven itself in a variety of applications. In polymer filtration, this special weave with a separation rate of 10 µm is used as ODW10. Due to the specific pore geometry and arrangement, particles settle on the surface, the mesh does not become



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clogged and the dirt holding capacity increases. Furthermore, the high permeability and mechanical strength underline the efficiency of this mesh structure. As a variant designed for optimized flow, the ODW6 guarantees permanently reliable levels of separation precision in micro filtration, high pore stability and a throughput rate that is up to three times higher than in comparable products. Alongside other areas, this makes it ideal for a multitude of applications in water filtration. With the new ODW8, GKD now also offers further potential through even smaller mesh fineness grades.

#### **Volumetric mesh**

Volumetric mesh is in demand all over the world and also demonstrates GKD's leading weave competence. This solution is characterized by a highly porous, three-dimensional mesh structure. Characterized by asymmetrically arranged pores of different sizes, it impresses through a broad particle separation rate with minimal loss of pressure. Because of the huge variety of materials that can be woven, product properties such as temperature or media resistance can be adjusted individually. The examples exhibited at the GKD stand offer visitors at Techtexil plenty of opportunity to discuss special tasks and solutions with the mesh experts.

**Visit GKD – GEBR. KUFFERATH AG**  
**at Techtexil in Frankfurt**  
**May 9 - 12, 2017**  
**Hall 3.1, stand D79**

*5.077 characters incl. spaces*



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### **GKD – GEBR. KUFFERATH AG**

The owner-run technical weaver GKD – GEBR. KUFFERATH AG is the global market leader for metal and plastic woven solutions as well as transparent media facades. Under the umbrella of GKD the company combines four independent business units: Industrial meshes, Process belt meshes, Architectural meshes and Transparent media façades. With its six plants – including the headquarters in Germany and other facilities in the US, South Africa, China, India and Chile – as well as its branches in France, Great Britain, Spain, Dubai, Qatar and worldwide representatives, GKD is never far from its customers.

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