



WORLD WIDE WEAVE

Flow-optimised ODW meshes set new standards

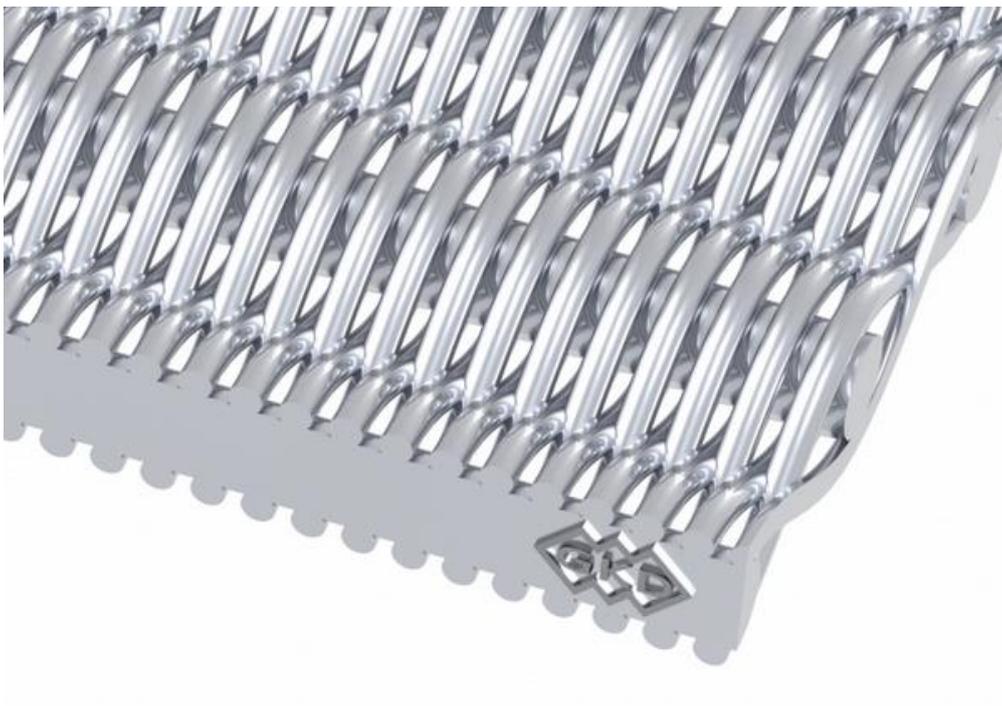
Through purposeful modification and further development, GKD – GEBR. KUFFERATH AG has succeeded in making further significant improvements to the flow capacity of its optimised dutch weave (ODW) meshes, a type of filter media that has already proven its worth in numerous filtration processes. Now ODWs offer long-term reliability of filtration rates in the microfiltration range combined with almost three times higher throughput rates and an 8.5-times lower pressure loss coefficient than the products that have been recently touted on the market as "revolutionary". This means that flow-optimised ODW meshes guarantee a low tendency to clog, easy cleaning and a long service life.

The basis of the high performance of ODWs is their special mesh construction. Their special weave creates a slot-shaped pore geometry on the mesh surface with smaller openings than the ones inside the mesh. In this way, particles above the specified separation limit are reliably retained on the mesh surface, while smaller particles can pass easily through the mesh interior. This prevents clogging and ensures the excellent dirt holding capacity of the ODW. At the same time, this mesh construction also ensures trouble-free cleaning. Because the separated particles build up on the surface of the filter rather than inside it, they can be easily detached through simple backwashing. Their lower resistance means that less filter surface is required, and pump power can also be set lower. The result: lower energy consumption and thus a smaller carbon footprint for the whole filtration plant. Compared to other meshes available on the market, ODWs have substantially more stainless steel wires woven into their surfaces. This explains not only the great stability of the individual pores but also the



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unrivalled overall mechanical strength of ODW meshes, which is far beyond anything other filter media with comparable throughput rates can offer. As a result, ODW meshes are also significantly more reliable in long-term operation. GKD uses the established formula of the IMVT to determine the required pore size. The three-times-higher throughput rate of these even further optimised ODWs is made possible by their more porous mesh structure. In this way, their further improved filtration rates and their larger open surface contribute to even more efficient filtration processes.



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As a privately owned technical weaver, GKD - Gebr. Kufferath AG is the world market leader in metal, synthetic and spiral mesh solutions. Four



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independent business divisions bundle their expertise under one roof: Industrial Mesh (woven metal mesh and filter solutions), Process Belts (belts made of mesh and spirals), Architectural meshes (façades, safety and interior design made of metal fabrics) and Mediamesh® (Transparent media façades). With its headquarter in Germany and five other facilities in the US, South Africa, China, India and Chile – as well as its branches in France, Spain, Dubai and worldwide representatives, GKD is close to markets anywhere in the world.

For more information:

GKD – GEBR. KUFFERATH AG
Metallweberstraße 46
D-52353 Düren
Tel.: +49 (0) 2421 / 803-0
Fax: +49 (0) 2421 / 803-233
E-Mail: industrialmesh@gkd.de
www.gkd.de

Please send a reprint to:

impetus.PR
Ursula Herrling-Tusch
Charlottenburger Allee 27-29
D-52068 Aachen
Tel.: +49 (0) 241 / 189 25-10
Fax: +49 (0) 241 / 189 25-29
E-Mail: herrling-tusch@impetus-pr.de