

optimized filter media

SolidWEAVE
systems media solution

Designed to
Outlast
Outperform
Provide superior value

NEVERLEAK™
Filter Leaf



WORLD WIDE WEAVE

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Neverleak filter leaves are designed to outlast, outperform, and out value all other filter leaf products on the market. Strong and durable, low-cost rescreening can be accomplished over-and-over-and-over again.



Since 1925, GKD has enjoyed a reputation for precision weaving and an extensive knowledge of industrial filtration processes. Our filter media, woven on our innovative state of the art looms, allows us to produce the highest quality and most robust filter cloth available. The same quality standards apply to the design and fabrication of our NeverLeak™ Industrial series of filter leaves for pre-coat pressure filtration. Our newest NeverLeak is designed to eliminate tubular-framed riveted leaves.

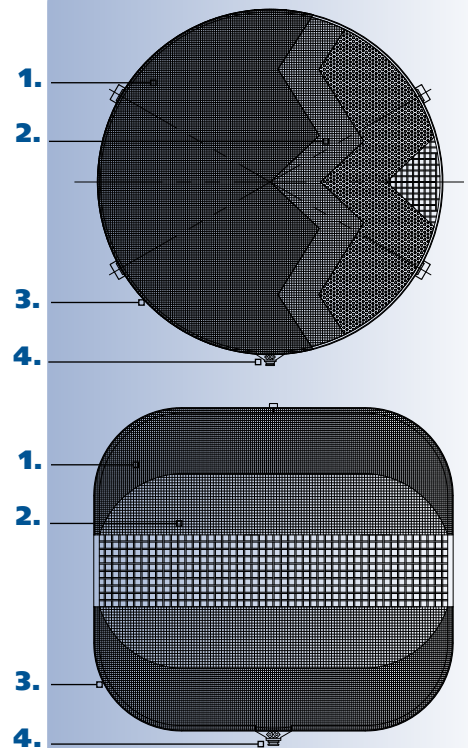
There are several problems with the riveted leaf design:

- riveted filter cloth loosens and tears
- introduces leakage and warping
- produces inconsistent, uneven filter cakes
- the one-use, throw-away leaves do not filter effectively

The NeverLeak style not only outlasts and outperforms riveted style leaves, but provides significant savings in the process. Long runs and high flows assist in producing more product.

The **all-new NeverLeak** was developed for industrial processing of:

- edible oils from soybeans and corn, and other seeds and grains
- cane and beet sugars
- organic and inorganic chemicals
- pharmaceuticals
- soaps



All NeverLeak filters feature

1. GKD high quality filter mesh
2. multi-ply robust support mesh
3. rigid, bend-resistant bar frame
4. authentic GKD high flow outlet



The most important benefit of a NeverLeak filter is the elimination of production and maintenance headaches that cost time and money.

New Leaf Construction: It is all about the materials, components, and the design.

We use the finest raw materials to weave the best filter cloth. We weave on the newest state of the art metal weaving looms. We maintain the most versatile filter fabrication capabilities—world-wide. We design our components to high standards to complete our filter elements.

What makes our NeverLeak filter leaf the best:

- the new multiply leaf is produced with a superior engineered core support design
- inner layers function to support the premium GKD filter cloth
- core media is welded firmly to a solid-formed bar frame
- the solid bar frame provides stability and strength, allowing for multiple rescreening
- filter cloth is secured to the frame using a newly developed NeverLeak continuous weld process that efficiently seals the entire perimeter
- the filter cloth is tight, smooth, and builds an even filter cake with no leaks
- the GKD-designed precision wide mouth outlet is welded to the bar frame for extra strength and a precision fit

The finished NeverLeak filter:

- is rigid, strong, and secure
- rests securely in the manifold and minimizes vibration
- provides for higher throughput and better efficiency
- resists mesh fatigue
- achieves even filter cake

Every NeverLeak filter leaf is inspected under magnification before and after the final polishing step.

Every leaf is recorded and tracked until removed from service. Customers receive reports on each leaf, each time it is rescreened.

Rescreening

The greatest value from solid bar NeverLeak leaves comes from the ability to produce a like-new leaf by rescreening. This process can be repeated up to five times to save 40% or more in costs for a clearly better product.

Each rescreened leaf is:

- inspected and evaluated for future rescreening—you'll get the report
- stripped of old filter cloth and thoroughly cleaned
- polished to remove weld materials, making the bar frame smooth and even
- fitted with new GKD filter cloth
- finished to first quality, like a new leaf



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Filter Cloth

As the world-premiere technical metal weaving mill, GKD controls the process of its products from wire sourcing through weaving. The GKD looms are the envy of the industry, having the most advanced technology in the industry. Recommended filter cloths are listed next in the table. Additional, special weaves can be provided based on application.

MESH	WEAVE TYPE	WIRE DIAMETERS	NOMINAL MICRON RATING	MESH WEIGHT (LBS./SF)	MESH THICKNESS (INCHES)
24 x 110	Plain Dutch	.015 / .010	115	0.55	0.027
24 x 128	Plain Dutch - Twin Warp (2)	.010 / .009	75	0.34	0.023
30 x 150	Plain Dutch - Twin Warp (2)	.009 / .007	60	0.328	0.019
PZ80 premium	Reverse Plain Dutch	.008 / .0157	80	0.54	0.03
KPZ55 premium	Reverse Dutch Twill	.0059 / .0118	55	0.56	0.029

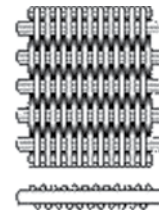
Engineering & Technology

Offering GeoDict® predictive CFD Modelling and GeoWeave® virtual weave creation

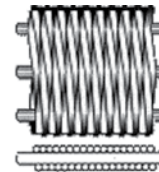
GKD's three-dimensional simulation software called GeoDict creates three dimension models of woven wire meshes and calculates parameters such as maximum glass bead, filter efficiency, retention rate, decrease in pressure, and bubble point. GeoWeave develops accurate virtual weave models without the use of a loom. GeoDict and GeoWeave can be used in combination to develop and optimize woven wire mesh for filtration performance.



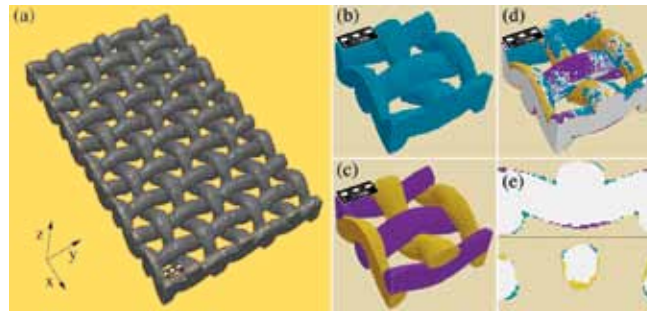
Plain Dutch



Reverse Plain Dutch



Reverse Dutch Twill



GKD-USA, Inc.
Registered to ISO 9001:2008
Certificate No. 311312 QM08

GKD – USA Inc.
825 Chesapeake Drive
Cambridge, MD 21613 USA
tel: +1-410-221 0542
fax: +1-410-221 0544
e-mail: sales@gkdusa.com
www.gkdusa.com

GKD – Gebr. Kufferath AG
Metallweberstraße 46
D-52353 Düren Germany
tel: +49 (0) 2421-803-0
fax: +49 (0) 2421-803-233
e-mail: solidweave@gkd.de
www.solidweave.de



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