Made in Germany.
Detect the difference.

Schwegmann
Filtrations-Technik

SFT®

WeBaX®
Filtration Bags by Schwegmann

Tailor-made solutions for fluid filtration

About us

Industrial Filtration covers a very wide range of tasks. We at Schwegmann Filtrations-Technik GmbH offer various solutions for the solid/liquid separation and the air filtration.

In our own sewing room we manufacture our Sieve- and Filter bags – if demanded, size and shape conform to the need of our customers.

Filter housings, filter cartridges, filter cloth, pocket filters and compact filters complete our product range.
For example, our products are used in the chemical industry, in the coatings and paint industry, in the adhesives industry or in the cosmetics and detergents industry.

In most cases, our products are used to hold back disturbing residues from a fluid or air.

Our field service will gladly assist you with the selection of the suitable filter medium.

Company Schwegmann Filtrations-Technik GmbH was founded on 01.01.2002 by Sebastian Schwegmann. However, it wasn´t a start from the very beginning, because as former department of Bernd Schwegmann GmbH & Co. KG, there had already been good relations with the paint industry and German industry in general since the 1960s.

Since the spin-off we are expanding our business continuously. In November 2017, we set the next milestone in our company history with the completion of our new building in Grafschaft-Ringen.

Table of content

WeBaX Filtration Bags

WeBaX®
Filtration Bags by Schwegmann

WeBaX®: the future of filtration starts NOW

WeBaX® is not just a name. It is a promise to offer our customers only the best - a combination of excellent service, proven Made-in-Germany quality and a passion for high-quality filter bags.

We - stands for the Sch**we**gmann team,

Ba - for **ba**gs and the

X - for your plus in service and advice.

The new brand name brings a breath of fresh air to our communication, but the proven core benefits of our filter bags will of course remain the same:
- flexibility
- personalised solutions
- possibility for small series
- fast despatch

Prepare for the future of filtration with WeBaX® and stay one step ahead of the competition!

Filter bags with a strap

WeBaX®

Filtration Bags by Schwegmann

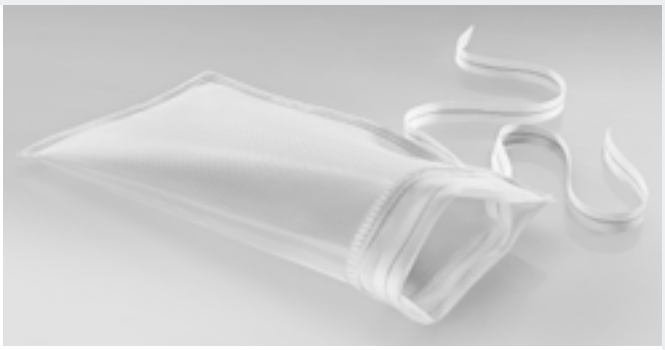
Filter Bags with a strap

Filter bags for the open filtration are used for smaller batches, if the use of mechanical filters would be uneconomical.

Filter bags from monofilament textile

The filter bags are made from monofilament textile are perfect for screening solid particles. The filter bags can be fixed below any outlet quickly, easily and without tools. The band seal in the bag opening is suitable for this. Other fastening options as cords and cable ties are available upon request.

When changing the product, the filter bags are simply replaced quickly. Thanks to the wide range of various mesh openings, the filter bags can be used flexibly in many different applications. Depending on the use, they can also be washed and therefore used multiple times.



Filter Bags from needle felt

In comparison to the monofilament filter bags, the needle felt filter bags are for filtering formable particles. The filter bags can only be used once, as particles are trapped in the felt and the felt can therefore no longer be used.

Filter bags with declaration of conformity

We supply filter bags with a declaration of conformity for use in the food and feeding stuff industries. The filter bags are manufactured and packed in accordance with the regulations in EU Regulations 1935/2004 and 10/2011.

Double layer filter bags

If one layer of monofilament textile is insufficient, a supporting screen is required or if both solid and formable particles have to be screened, the double layer filter bags are the perfect choice.

Antistatic filter bags

Antistatic filter bags are used when screening materials that are electrostatically charged. Electrically conductive fibres that are integrated into the monofilament safeguard reliably against the discharge effect. The meshes no longer become blocked and the danger of electrical discharge (spark formation) reduces. The benefit when compared to metal screens is the versatile processing options provided by the Polyamide fibres.

Filter bags with round bottom I U-form I V-form

The standard screening bag is sewn with a flat bottom. We can provide a round bottom as an alternative for a larger filter surface. We can manufacture this cylindrical shape as of a diameter of 5 cm. Upon request, we can also manufacture the filter bag's bottom as a U-form or a V-form.

Sizes (flat dimensions)				
	G0	G1	G2	GS
W	10	15	15	Custom-made product according to your size specifications
L	45	45	25	

Code		
Filter medium	Mesh opening	Size
PA	250	G1

Filter medium	Code	Filter fineness / mesh opening in microns																										
		1	5	10	15	25	30	50	56	60	70	80	100	125	150	180	200	250	300	400	500	600	700	800	1000	1320
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polyester monofilament	PES	•	•	•	•			•				•	•		•		•	•	•							
Polyamide carbon	PAC											•	•		•		•	•			•					
Polyester needle felt	PE	•	•	•		•		•					•				•									
Polypropylene needle felt	P	•	•	•		•		•					•				•									

Other mesh openings and materials are available upon request.

Filter bags for Filter Housings

WeBaX®

Filtration Bags by Schwegmann

WeBaX Standard Filter Bags

The industry‘s first choice

Our **WeBaX Standard Filter Bags** from Schwegmann Filtrations-Technik offer you first-class filter solutions that are well established in German industry. Whether you are producing paints and varnishes, printing inks, cooling and process water, chemicals, adhesives or solvents, our They are ideal for applications in which open filtrations are no longer sufficient, whether due to higher throughputs, pressure, temperatures or aggressive media.

The advantages of our flexible filter solutions:

- **High-quality screen fabrics and needle felts**
  Choose from six different materials and 25 mesh sizes to find the perfect filter bag for your specific needs.
- **Various rings and plastic collars**
  Choose between galvanised steel rings, stainless steel rings, PTFE-coated stainless steel rings and plastic rings, e.g. made of polypropylene, or a range of plastic collars for easier and safer sealing and handling.
- **Safe handling**
  The filter bags in sizes R1/R2 with sewn-in steel rings are equipped with two loops as standard, which make them easier to handle. Do you only need one removal loop? No problem, we also offer filter bags with only one strap as an alternative. Our filters with plastic collars have integrated loops as standard for better handling.
- **Customised solutions**
  In addition to the standard dimensions, we also offer customised filter bags in different diameters and lengths.

Material selection for your specific requirements

- **Screen cloth:** polyamide (nylon), polyester, polypropylene, polyamide carbon, PTFE / ETFE
- **Needle felt:** polyester, polypropylene, polyamide (nylon), Nomex®

WeBaX standard filter bags, made of needle felt, reliably filter deformable contaminants and guarantee a depth filter effect. Our filter bags made of sieve fabric sieve defined particle sizes on the surface and form a filter cake, which further enhances the filtration effect. In general, our WeBaX filter bags are suitable for all closed bag filter housings and can be used with all common bag filter housings.

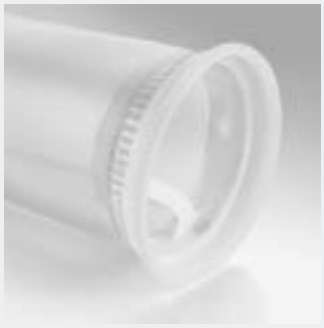
Range of rings and collars

- M = galvanised steel rings
- E = stainless steel rings
- E(PTFE) = PTFE encased stainless steel rings
- P = plastic rings (e.g. made of polypropylene)
- K = Plastic collars made of polyester, polypropylene, etc.

A wide range of application areas

- Production of paints and varnishes, printing inks and other inks
- Cleaning of chemicals
- Filtration of solvents and disinfectants
- Filtration of liquids in the production of food and beverages
- Ensuring the purity of pharmaceutical products
- Water and wastewater treatment
- Cooling and process water
- Filtration of lubricants and coolants
- Filtration of cleaning agents
- Cleaning of adhesives and resins

WeBaX filter bags Series 0 with LABS conformity



In industrial painting, cleanliness and purity are crucial for the quality of the end product. Our WeBaX filter bags with LABS conformity offer you a reliable solution to ensure that painted surfaces are free of unwanted substances.

These special filter bags are designed to remove paint-wetting impairment substances (LABS). Even small amounts of these substances can significantly impair the quality of the paint.

LABS are substances such as silicones, oils, fats, waxes and plastic components such as PTFE and polyethylene, which can be deposited on surfaces. They get there through the air or through direct contact of the workpiece with other objects. These unwanted substances lead to wetting problems, which result in small craters or large-area paint defects.

To ensure the highest quality standards, we test our filters for LABS in accordance with VDMA 24364. WeBaX filter bags with LABS conformity are the ideal choice to ensure the cleanliness of your components and to enable homogeneous wetting with paint.

Your advantages:

- **High cleanliness:**
  Removal of substances that interfere with paint wetting (PWIS) for even paint application.
- **Quality assurance:**
  Tests according to VDMA 24364 guarantee the highest standards.
- **Error prevention:**
  Minimisation of cratering or large-scale paint defects through precise filtration.
- **Wide range of applications:**
  Ideal for various painting processes in automotive and industrial production.
- **Increased efficiency:**
  Improved painting quality results in less rework and cost savings.

Perfectly designed for high demands:

WeBaX filter bags with LABS conformity Series 0 are the ideal solution when it comes to precise filtration and hygienic removal of contamination in painting processes.
They are particularly suitable for:

- Painting industry (e.g. cars)
- Components that require high cleanliness standards
- Other applications where LABS-compliant solutions are required

WeBaX Absolute Melt Blown Filter Bags Series 2

The filtration of beer, wine and spirits presents many companies with significant challenges: How can consistent product quality be ensured without affecting taste and aroma? How can the finest particles be efficiently filtered out without disrupting the production process due to frequent filter changes?
This is precisely where the WeBaX Absolute Melt Blown Filter Bag Series 2 from Schwegmann comes into its own. Our filter bags provide outstanding filtration performance that ensures reliable protection even at high throughput rates and with aggressive media. With a finely graduated filtration between 1 and 25 µm and an extended service life, they reduce production interruptions to a minimum – for maximum efficiency and lower operating costs.
These WeBaX filter bags are made of a highly efficient melt-blown polypropylene filter medium that is specially designed for challenging filtration processes. In addition, a polypropylene protective layer on the downstream side ensures that no fibres are released into the liquids.

Your advantages:

- **High-quality melt-blown microfibres**
  Made of polypropylene for maximum dirt holding capacity and extended service life.
- **Double protective layer:**
  The protective layer on the downstream side eliminates fibre release and ensures particularly precise filtration.
- **Bypass-free filtration:**
  Thanks to the fully welded design with plastic collar, 100 % bypass-free filtration is ensured.
- **Highly flexible, chemically resistant seal:**
  The plastic collar adapts to any filter housing and ensures a secure seal.
- **Effective filtration:**
  The bags reliably remove solids between 1 and 25 µm in size.
- **No residues:**
  Our WeBaX filter bags are free of any finishes, binders, resins or surface tension-altering substances.
- **Hydrophobic microfibres:**
  The material of the filter bags requires prior wetting with an aqueous solution to achieve the best possible results. Instructions are included with the filters.

Recommended for difficult applications

WeBaX Absolute Melt Blown filter bags Series 2 are ideal for applications where precise filtration and hygienic removal of the finest particles are required.
Such as in the:

- Beverage industry (beer, wine, spirits)
- Parts cleaning
- Paint and varnish production
- Process engineering (activated carbon separation)
- Vinegar production

WeBaX Melt Blown Series 3 filter bags

The top solution for the filtration of paints and varnishes

The high-performance melt blown filter bag with a high dirt holding capacity has been specially developed for the demanding requirements of the filtration of paints and varnishes in the automotive industry. They are an outstanding solution for the removal of solids and oils.
WeBaX Melt Blown Series 3 filter bags feature a high-quality, multi-layer construction. These filter bags provide greater than 99% efficiency in the removal of solids and oils. They have an impressive dirt holding capacity of up to 250 g. The multi-layer melt blown technology guarantees excellent performance and reliability in the filtration of paints and varnishes.

Reliable filter technology for the most exacting requirements in the automotive industry

Features:

- **Multi-layer meltblown filter material:**
  Our filter bags use a multi-layer construction made of meltblown material, which is known for its high filtration efficiency. This material is particularly effective at separating oil and ensures that your liquids are thoroughly cleaned.
- **Absolutely safe bag design:**
  Each filter bag is designed with a completely safe sewing technique and equipped with a welded plastic collar. This reliably prevents the formation of bypasses and ensures that no impurities escape.
- **Protective layer made of spunbond material:**
  The protective layer made of spunbond material protects against fibre release and ensures consistent filter performance without the interference of loose fibres.
- **Stable safety seams:**
  The safety seams of the filter bag are designed to provide high stability under pressure and flow rates. This ensures consistent performance and reliability, even under demanding conditions.
- **Step-by-step and reliable cleaning:**
  The various layers of the meltblown filter provide a gradual and efficient cleaning of the liquid, giving the filter bags a high dirt holding capacity and a long service life.
- **LABS compliance – free of paint-wetting impairment substances:**
  Our filter bags are free of substances that could affect paints, ensuring that your painting results are not negatively influenced.

Your advantages at a glance:

- **High filtration performance:**
  Multi-layer filter material ensures thorough removal of solids and oils.
- **Robust construction:**
  Safety seams and matching plastic collars prevent bypasses and guarantee stable performance.
- **Fibre-release protection:**
  The spunbond protective layer ensures a clean filter environment without loose fibres.
- **Long service life and performance:**
  Step-by-step filtration and high dirt holding capacity guarantee a long service life.

Applications areas:

WeBaX Melt Blown Filter Bags Series 3 are ideal for

- **Paint and Varnish Filtration:** ensuring a high quality and consistency of your paint job.
- **Automotive Industry:** efficient removal of impurities and oils in various production processes.

WeBaX food-grade filter bags Series 5

Your reliable choice for hygienic filtration

In the food industry, reliable and efficient filtration is crucial to ensure product quality and hygiene. Impurities and unsafe materials can severely affect production processes. This poses a major risk to food safety.
The WeBaX food-compliant filter bag Series 5 from Schwegmann offers a reliable solution that has been specially developed for use in food processing. The filters meet the highest standards of cleanliness, efficiency and legal compliance.

Safety through stringent regulation

Our food-grade filter bags comply with the following regulations:
- EG Regulation No. 1935/2004: Materials and articles intended to come into contact with food.
- EU Regulation No. 10/2011: Plastic materials and articles intended to come into contact with food.
- EU Regulation No. 2023/2006: Good Manufacturing Practice for materials and articles intended to come into contact with food (GMP: Good Manufacturing Practice)

Each filter bag is individually packed to ensure the highest level of hygiene and safety during transport and storage.

Your advantages:
- **Food-compliant:**
  Manufactured according to the strictest EU and EG requirements for materials that come into contact with food.
- **Safe packaging:**
  Each filter bag is individually packaged to avoid contamination and ensure hygiene.
- **Flexibility and availability:**
  Our filter bags are specially designed to meet the requirements of the food industry and offer maximum reliability.

Perfectly designed for various applications

The WeBaX food-grade filter bag Series 5 is ideal for use in food production and processing. It guarantees safe and efficient filtration in a variety of applications, such as:
- food oils
- beverages
- syrups, sugar solutions and liquid sugars
- dairy products
- sauces and dressings
- natural extracts

Other applications:
- Cosmetics ((body and skin care products, natural cosmetics)
- Pharmaceutical active ingredients
- Flavours and fragrances
- Packaging industry / printing of food packaging
- Paints and varnishes for e.g. children's toys

WeBaX High Flow Series 6

Superior flow capacity and service life

Discover a new dimension in filtration with WeBaX High Flow Series 6 filter bags from Schwegmann. Our product combines the advantages of filter bags and filter cartridges to offer you outstanding filtration properties. With up to 65%-85% more surface area than comparable filter bags, you will experience an impressive increase in performance.

Our High Flow filter bags offer a variety of advantages that will revolutionise your filtration processes:

- **Increased flow rates**
  Reduce the size of your filter vessels by up to 50% thanks to the high flow capacity.
- **Extended service life**
  Experience up to five times longer service life compared to conventional filter bags and reduce your maintenance and changeover costs.
- **Reduced residual liquid**
  Our filter bags contain only 25% of the residual liquid.
- **No bypasses**
  The plastic collar and 100% welded seams reliably eliminate bypasses.
- **Top efficiency**
  Up to 35 times more effective than standard filter cartridges, making it ideal for demanding applications.
- **Lower differential pressure**
  Reduce energy usage with lower differential pressure.
- **Cost-effective**
  Benefit from an extremely cost-effective system compared to other solutions.
- **Easy maintenance**
  The solid cylinder design enables uncomplicated and cost-effective maintenance.

The WeBaX High Flow filter bags can be easily installed in existing filter housings without the need for any modifications to the housing. The filter elements can be replaced quickly and easily, which significantly reduces your maintenance times.

Wide range of application areas:

Our WeBaX High Flow filter bags Series 6 are designed for a wide range of process applications:

- Paints and varnishes
- Inks and dispersions
- Resins
- Water and wastewater treatment
- Solvents
- Lubricants and fluids in metal processing
- Solvent- and water-based cleaners in metal washing plants
- Oil and gas extraction and processing
- Drinking water
- Beer and wine
- Cooking oils
- and much more

Bag design based on competitor housings

Before using Series 6 High Flow filter bags, please check compatibility with your housing manufacturer, housing type and year of manufacture. We are happy to assist you with this, whether you are using existing cages or require new ones. We also offer matching cages to ensure a perfect fit and maximum performance.

WeBaX Extended Life Series 7

Longer service life reduces your operating costs

With the WeBaX Extended Life Series 7 filter bag, you can offer your processes first-class filtration performance and significantly extend the service life of your filters. The reinforced material thickness ensures effective separation of gels and other contamination, reducing operating costs and increasing the efficiency of your production processes.
Our Extended Life filter bags feature a robust, fully welded construction that prevents bypasses and ensures continuous filtration. Made of polyester or polypropylene fibres, the filters meet strict FDA and EU guidelines for food contact. The special surface treatment almost completely eliminates fibre migration and ensures a reliable filtration.

Your advantages:

- **Increased material thickness**
  Increases efficiency in the separation of gels and improves filtration performance.
- **Less waste and lower changeover costs**
  Reduces your operating costs through an exceptionally long filter bag service life.
- **Robust welded construction**
  Eliminates bypasses and ensures complete filtration.
- **High-quality filter materials**
  Comply with all relevant FDA and EU food contact regulations.
- **Suitable plastic collars for all commercially available bag filter housings**
  Adapts perfectly to the filter housing, is chemically resistant and ensures an unrivalled seal thanks to its special sealing lip. The plastic collar reinforces its sealing function as the differential pressure increases.
- **Free of LABS (substances that interfere with paint wetting)**
  Ensures trouble-free filtration.

Wide range of applications

WeBaX Extended Life filter bags are ideal for a variety of applications:
- Water treatment
- Chemicals and petrochemicals
- Paints and varnishes
- Automotive industry and metal processing
- Adhesives
- Food industry

WeBaX multi-layer filter bags Series 12

Optimal filtration and long service life

In numerous industries, it is crucial that filters last a long time and work efficiently in order to minimise interruptions in the production process. When filtering liquids, high throughput and extended filter life play a particularly important role in operating costs.
The WeBaX multilayer filter bag Series 12 from Schwegmann offers the ideal solution for this, as its special construction, using multiple layers of diverse materials, ensures optimal filtration performance and a long service life.
Our industrial filters consist of two, three or even more layers of needle felt of different finenesses, carefully sewn to achieve improved filtration performance. If desired, an outer protective layer made of special fabric can reliably eliminate fibre migration.

A wide range of materials for every need

- **Needle felts in standard and extended-life versions** for particularly high durability and a long service life
- **Screen fabrics** in a variety of materials to meet the requirements of a wide range of industries
- **Filter nonwovens** of all kinds to protect the interior structure or eliminate fibre migration (e.g. spunbond)
- **Melt blown** filter layers to bind even gel-like particles and oils, as well as to optimise the service life

This flexibility in the choice of materials makes it possible to tailor the filter bags exactly to your needs, in order to optimise both the throughput and the service life.

Your advantages

- **Multilayer design**
  Two, three, four or more layers of needle felt, monofilament textile, melt blown or nonwoven media provide extended filter life and improved filtration efficiency
- **Protective layer against fibre migration**
  Ensures clean and reliable filtration without particle emission
- **Higher efficiency**
  Increased throughput and optimised service life ensure improved production processes
- **Wide range of material options**
  Choose your favourite from standard or extended-life needle felts, screen fabrics, melt-blown filter media and nonwovens

For challenging filtration tasks in industry
Our WeBaX multilayer filter bags Series 12 are particularly suitable for applications where high dirt holding capacity and long filter life are required, for example:
- chemical industry
- food industry
- automotive industry

WeBaX filter bag with melt-blown core Series 15

Impressive efficiency and dirt capacity

The WeBaX filter bag with a melt-blown core sets new standards in filtration technology. Equipped with a seamless microfibre cartridge insert and innovative density levels, this filter bag offers exceptional ability to remove traces of oil in process fluids. Compared to conventional Polypropylene bags, it has a four times higher dirt holding capacity, making it a superior choice for complex filtration tasks.

Features and benefits

- **Seamless microfibre cartridge insert**
  The advanced microfibre technology with density levels ensures efficient removal of traces of oil and contaminants that other filter solutions may not be able to fully capture.
- **Increased dirt holding capacity**
  With a dirt holding capacity four times greater than conventional Polypropylene bags, this filter bag offers extended service life and lower maintenance costs.
- **Fully welded needle felt construction**
  The robust construction ensures high stability and durability under continuous load, without compromising filter performance.
- **Special plastic collar**
  The specially designed plastic collar eliminates any unfiltered bypass, ensuring complete filtration and maximum efficiency.
- **Versatile applications**
  Ideal for continuous flow applications such as e-coat and phosphate baths, automotive and paint manufacturing, as well as batch applications such as oils, cooking oils, syrups and final or polishing filtration requirements.

Range of needle felts:

- Polypropylene extended life needle felt
- Polypropylene standard needle felt (after consultation)

Choice of fineness:

1 µm, 5 µm, 10 µm, 25 µm, 50 µm, 75 µm, 100 µm

Your advantages:

- **Highly efficient filtration**
  Effectively removes trace oil and impurities with a superior dirt holding capacity.
- **Durable construction**
  The welded needle felt construction and the special plastic collar ensure high stability and prevent bypasses.
- **Versatile**
  Ideal for a wide range of applications, from continuous flow processes to batch applications.

Some of the most important application areas are:

- Automotive industry
- Chemical industry
- Paint manufacturing
- Food and beverage production
- Pharmaceutical industry
- Water treatment
- Life Science
- Cosmetic products / cosmetics industry

Adapters for open filtration systems

Adapters are used in conjunction with ring filter bags to form a gravity-operated, open filter system with minimal investment costs.

Adapters can be supplied in Stainless steel (CrNiMo) and Polypropylene with a G 1½" female thread.
The maximum infeed pressure is 1.5 bar.

Suitable ring filter bags			
	R1	**R2**	**R1S**
∅	18	18	18
L	43	81	special length

Code		
Type	**Size**	**Material**
A	1-2	S

Technical data	
Type	A
Material	Stainless steel (S); Polypropylene (P)
Bag size	1 / 2 (see ring filter bags)
Maximum operating data	1.5 bar

Monofilament textile I Needle felts

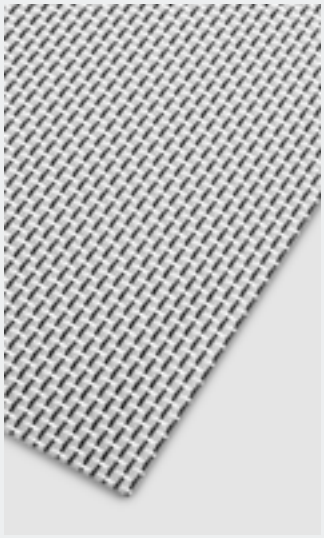
Monofilament textile

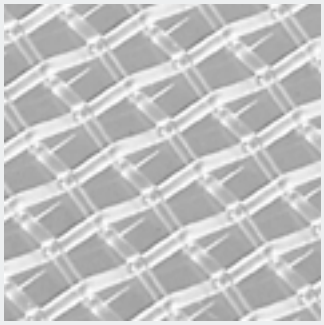
We use monofilament textiles from selected suppliers to manufacture our products. The materials are subjected to continuous inspection, which ensures that high and consistent quality are maintained at all times.

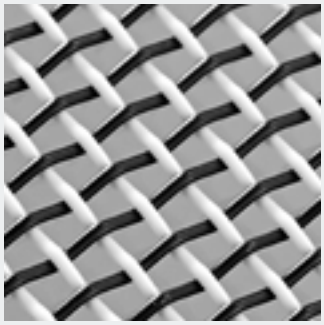
The monofilament textile comprises flat and even (monofile) fibres. The values for the monofilament textile openings are defined exactly and their measurements checked. The monofilament textile is heat-set and this provides the mesh with its stability. It can hold defined particle sizes back on the textiles surface. Sieving is basically grading defined particle sizes with an effective selectivity.

We recommend monofilament textiles made of Polyester for acids and monofilament textiles made of Polyamide for bases. We can also provide Polypropylene and many other materials upon request. We recommend our Polyamide monofilament textile with carbon fibres as an antistatic option.

Our standard roll widths that we keep in stock are between 60 and 120 cm. Other widths are available upon request. We are happy to supply you with monofilament textile pieces in all shapes and sizes, cut by laser or punching.







Code		
Filter medium	**Mesh opening**	**Width of textile**
PA	100	120

Filter medium	Code	Mesh opening in microns																								
		1	5	10	15	25	30	50	56	60	70	80	100	125	150	180	200	250	300	400	500	600	700	800	1000	1320
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polyester monofilament	PES	•	•	•	•			•				•	•		•		•	•	•							
Polyamide Carbon	PAC											•	•		•		•	•			•					

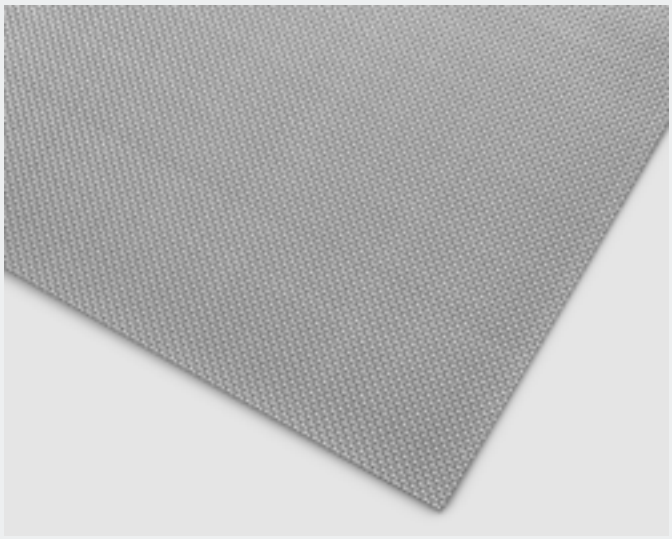
Other mesh openings and materials are available upon request.

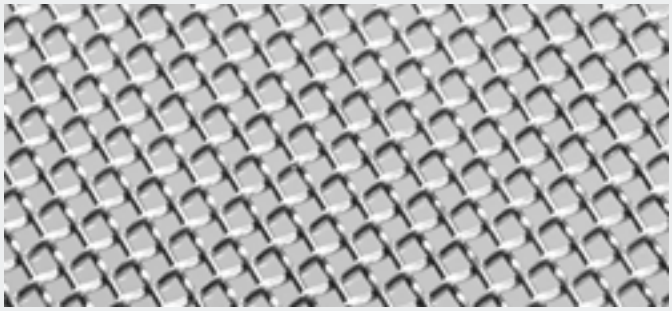
Wire cloth

The robust wire cloth is made of stainless steel, is extremely heat-resistant and has very good mechanical stability.

Metal wire cloths have the same structure and the same functions as a plastic monofilament textile. The wires of a metal wire cloth also criss-cross at right angles and alternate continuously between above and below. The result is a cloth with square mesh openings and a fixed mesh size. Particles with a defined size can be held back on its surface.

The standard roll widths are between 100 and 150 cm. Other widths are available upon request. We are happy to supply you with wire cloth pieces in all shapes and sizes, cut by laser or punching.





Code		
Filter medium	**Mesh opening**	**Width of textile**
E	100	100

Filter medium	Code	Mesh opening in microns																	
		25	50	60	70	80	100	125	150	180	200	250	300	400	500	600	800	1000	1200
Stainless steel	E	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Cloths made of other materials with different types of weave (e. g. plain dutch weave) or mesh openings are available upon request.

Needle felts

While deformable particles can push through a monofilament textile, they are held back in three-dimensional needle felts.

Needle felts have a three-dimensional filter structure, whereby the filter properties apply both on the surface and throughout the depth. This enables deep filtration for very large accumulations of solids and higher flow rates. The needle felt is heattreated on the surface in order to virtually prevent fibres getting into the filtered material. The specified pore size is practically unmeasurable, a nominal filter fineness that is based on empirical values is specified here.

Code		
Filter medium	**Filter fineness**	**Width of textile**
PE	100	59

Filter medium	Code	Fineness in microns						
		1	5	10	25	50	100	200
Polyester needle felt	PE	•	•	•	•	•	•	•
Polypropylene needle felt	P	•	•	•	•	•	•	•

Other finenesses and materials are available upon request.

Resistance

When using our products, pay attention to the different resistance properties of the different materials.

	Polyamide	Polyester	Polypropylene	Stainless steel
Alkalis	A/B	A/B	A	A
Acids	B/C	A/B	A	A
Alcohols	A	A	A	A
Ester	A	A	A	A
Aliphatic HC	A	A	A	A
Aromatic HC	A	B	C	A
Chlorinated HC	A	A	B	A
Oxidising agents	B/C	B/C	A	A/B/C
Oils, greases	B/C	A	A	A

Temperature

Dry	110°C	150°C	100°C	400°C
Wet	100°C	120°C	90°C	400°C

Key

resistant = A	partially resistant = B	not resistant = C

The specifications are approximate values that depend on the concentration of the suspension and the duration of the filtering procedure.
We are happy to provide further information on the individual chemicals.

Special filter designs

Sieve inserts I Filter inserts

Sieve inserts for open filtration made of monofilament textile.

Screen inserts are preferred where screening bags cannot provide sufficient screening surface area and where using vibrating screens or bag filters appears to be uneconomical. The eyes that are stamped into the side seam provide versatile fastening options, e.g. to hang onto a frame that has pins.

Filter inserts for open filtration provide a large filter surface area and a high solid collection capability.

Filter inserts for use in lattice boxes are used wherever wastewater etc. is to be treated visually and where a treatment plant appears uneconomical. They are mainly made of needle felt and have integrated eyes in the top seam for better fastening.

Dimensions in cm		
	G3	G3S
W	51	Custom-made product according to your size specifications
L	57	

Dimensions in cm		
	G4	G4S
W	80	Custom-made product according to your size specifications
L	120	
H	90	

Filter medium	Code	Mesh opening in microns																								
		1	5	10	15	25	30	50	56	60	70	80	100	125	150	180	200	250	300	400	500	600	700	800	1000	1320
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polyester monofilament	PES	•	•	•	•			•				•	•		•		•	•	•							
Polyester needle felt	PE	•	•	•		•		•					•				•									
Polypropylene needle felt	P	•	•	•		•		•					•				•									

Other mesh openings and materials are available upon request.

Code		
Filter medium	Mesh opening	Size
PA	300	G3
PE	200	G4

Former filters

Paper former filters, folding filters and funnels from monofilament textile are perfect for open filtration of small batches in laboratories or technical centres.

Paper former filters are made of solid paper and have a monofilament textile insert on the bottom. They are mainly used to screen varnishes, paints, glues, etc. The former filters are ideal for screening small quantities such as those that occur in laboratories. We can also provide holders and dispensers as accessories.

Folding filters are also made of solid paper, in which precision and standard textile is used. In contrast to paper former filters, folding filters can be produced with various mesh openings.

Funnels made of monofilament textile have a defined mesh opening and provide the user with a larger screening surface area than the paper former filters due to the range of various sizes. They can be supplied with or without a band.

Filter type	Code	Mesh opening in microns																										
		1	5	10	15	25	30	50	56	60	70	80	100	125	150	180	190	200	250	260	300	400	500	600	700	800	1000	1320
Paper former filters	TS				•	•				•				•	•		•			•							•	
Folding filters	FS		•	•	•	•	•	•		•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•		•	•	•	•	•	•	•	•
Polyester monofilament	PES	•	•	•	•			•				•	•		•			•	•		•							
Polyester needle felt	PE	•	•	•		•		•					•					•										
Polypropylene needle felt	P	•	•	•		•		•					•					•										

Other mesh openings and materials are available upon request.

Dimensions in cm		
	G5	G5S
∅	15	Custom-made product according to your size specifications
L	13	

Code		
Filter medium	Mesh opening	Size
TS	125	
FS	50	
PA	10	G5

Screen cylinder

We manufacture various designs of screen hoses, screen nozzles and screen cylinders for all known centrifugal sifting machines.

Screen hoses, screen nozzles and screen cylinders are made of monofilament textile, Polyamide, Polyester or conductive cloth with carbon fibres. The mesh opening start at 1 µm and go up to 5000 µm. A masked longitudinal seam (e.g. silicone seal), sewn in cords and labels with the mesh openings and the running direction are also possible upon request.

Dimensions in cm							
∅	11	18.5	18.5	18.5	18.5	31	31
L	21	29	38.5	48.5	58	24.4	37.5

Code		
Filter medium	**Mesh opening**	**Size**
PA	200	GS

Filter medium	Code	Mesh opening in microns																								
		1	5	10	15	25	30	50	56	60	70	80	100	125	150	180	200	250	300	400	500	600	700	800	1000	1320
Polyamide monofilament	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Polyester monofilament	PES	•	•	•	•			•				•	•		•		•	•	•							
Polyamide carbon	PAC											•	•		•		•	•			•					

Other mesh openings and materials are available upon request.

Water treatment filter bag: WeBaX ClearPrint

Optimise your offset printing process with the highest quality filtration – made in Germany.

In the offset printing process, even the smallest impurities in the dampening water can cause significant problems – from printing defects such as streaking and tonal value fluctuations to a shortened lifespan of your machines.
The frequent need to replace filter media not only results in production interruptions, but also in unnecessarily high operating costs. In addition, many standard solutions do not meet the specific requirements of your printing processes, which further impairs efficiency and quality.
We at Schwegmann Filtrations-Technik are familiar with these challenges and offer you an innovative solution for water treatment: our filter bags WeBaX ClearPrint.
These filter bags are specially designed for the requirements of dampening water filtration in offset printing. They effectively remove impurities such as paper dust, ink residues and chemical deposits, which can significantly impair print quality.
Our WeBaX ClearPrint filter bags precisely filter the dampening water, eliminating streaking and tonal and colour fluctuations. This ensures consistently high print quality and extends the life of your printing presses.
What's more, our WeBaX ClearPrint filter bags are equipped with an innovative adapter system that allows for quick and easy integration into your existing printing system. The precisely fitting form and the use of robust materials not only guarantee a long service life, but also reliable filtration.

Flexible filtration solutions for every need

The water treatment filter bags are available in single and double layers, with and without plastic adapters. In addition to these filter bags, we also offer you the complete range of filter technology for dampening water circulation.

The choice is yours:

- Colour and oil absorbers (absorbers)
- Filter mats as cut-outs or on rolls
- Rolled filter candles, melt blown filter candles (nominal and absolute)
- Filter bags with inlet
  - 25 x 25 cm
  - 40 x 45 cm (inlet 14 x 15 cm)
  - 26 x 25 cm (inlet 6 x 4,5 cm)
  - 13 x 50 cm

Your advantages:

- **Optimised filtration:**
  Remove impurities efficiently and improve the quality of your dampening water.
- **Long service life:**
  Benefit from high-quality materials and precise workmanship that guarantee a long service life.
- **Easy integration:**
  Integrate the WeBaX ClearPrint filter bags quickly and safely thanks to the well-thought-out adapter design.
- **Versatile applications:**
  Use the filter bags for all common offset printing presses.

Designed for printing machines from:

- Heidelberg
- Koenig & Bauer
- Komori
- manroland
- Ryobi

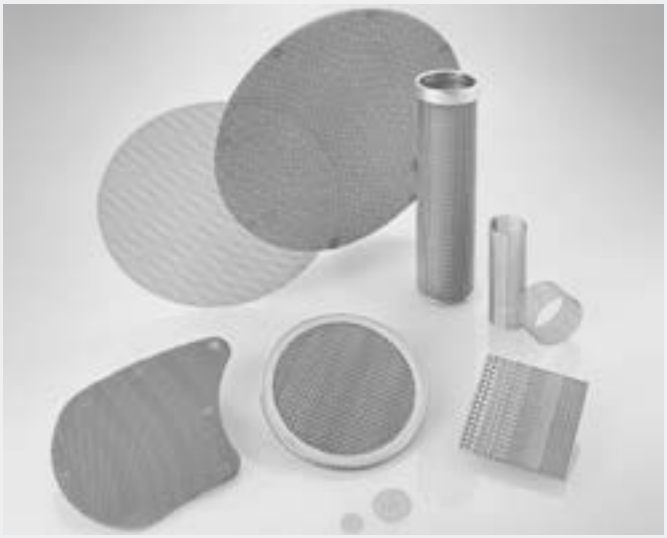
Special design from wire cloth

We design, construct and produce moulded parts made of metal wire cloth from simple cuts to complex components for prototypes up to mass production.

The moulded parts are made of metal wire and are suitable for screening solid, liquid or gaseous substances. Furthermore, there are numerous different applications such as in a microphone or a loudspeaker.

The wire cloths that are used are normally made of stainless steel and are available in various mesh openings and weave constructions. Our range includes a wide selection of different shapes: lined or multi-layer blanks, various punching and moulded parts, screen hoses, screen cylinders and much more.

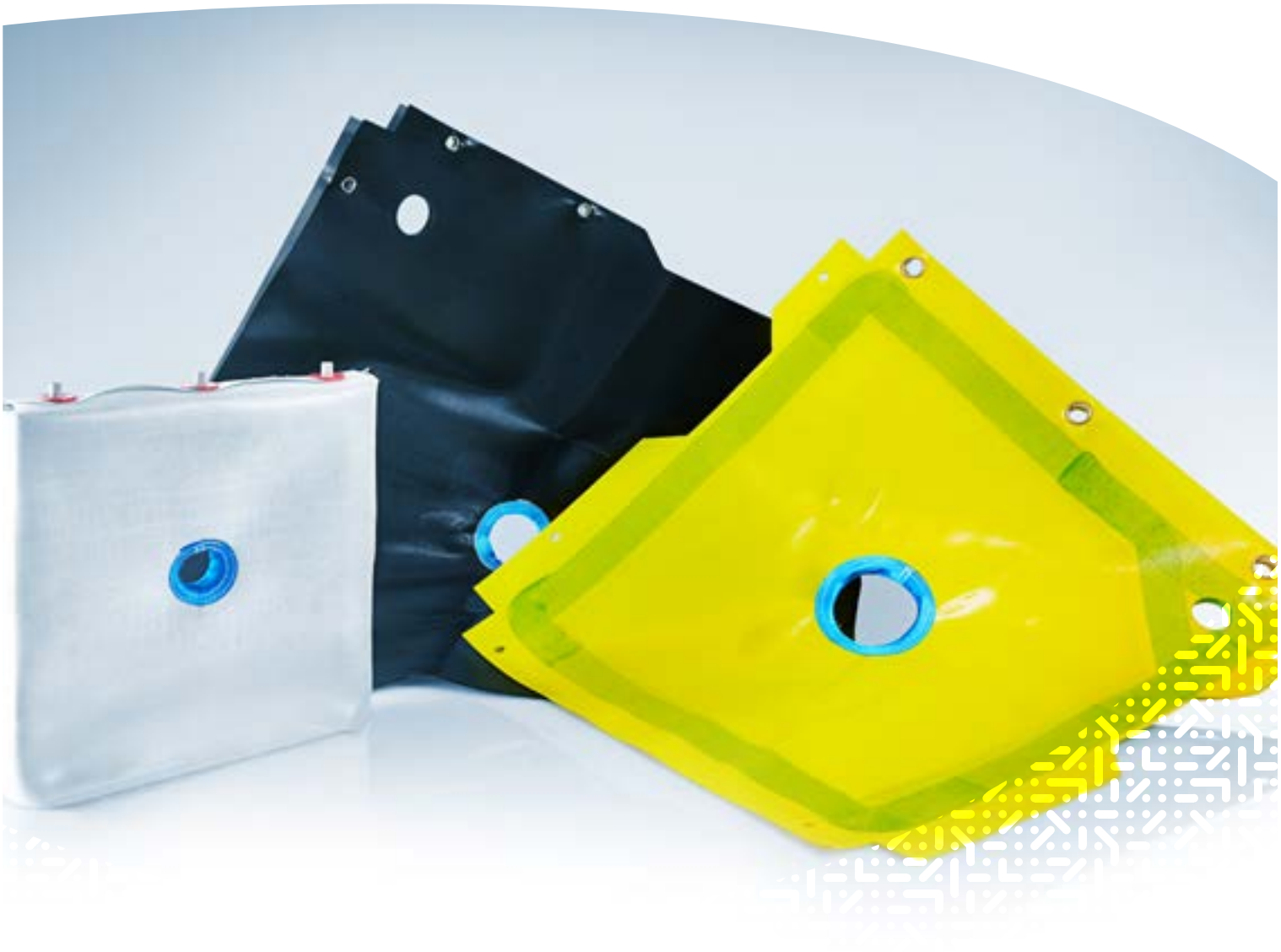
Please send us a sample or a drawing together with your inquiry.



Code		
Filter medium	**Mesh opening**	**Size**
E	25	GS

Filter medium	Code	Mesh opening in microns																	
		25	50	60	70	80	100	125	150	180	200	250	300	400	500	600	800	1000	1200
Stainless steel	E	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Other mesh openings and materials are available upon request.



Filter cloth

Filter cloth

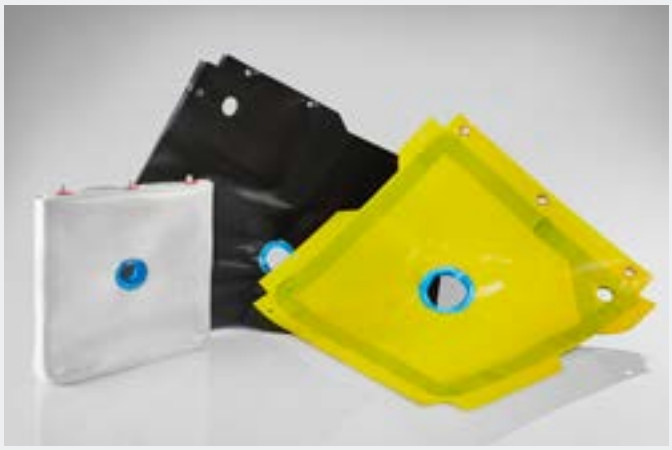
Filter cloths are used to separate solids and liquids in filter presses.

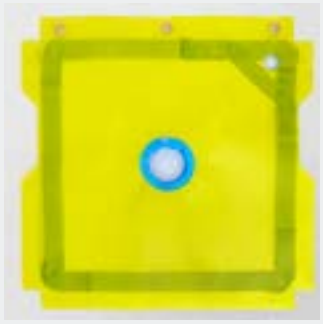
Our filter cloths can be manufactured in the following designs:
- Double neck filter cloth
- Overhang filter cloth
- With edge seal
- Drip-tight design for CGR filter plates

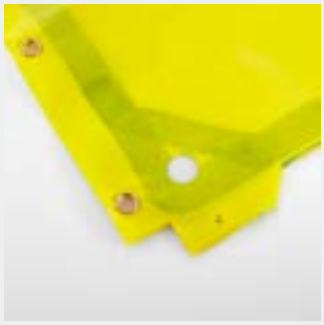
Filter cloth
The filter cloth quality, predominantly made of Polypropylene or Polyamide, is designed in accordance with the air permeability (L/dm^2/min), the web type (mono-filament, multi-filament, mixed yarn) and cloth treatment (e.g. calendered surface). We will design a suitable filter cloth for optimum filtration according to the application.

Formats
We supply all common formats from 250 x 250 mm to 2000 x 2000 mm.

Benefits of our filter cloths
- Optimum filtration
- Good filter cake removal
- Long service life
- Cleanliness
- Cost effectiveness







Sample cloth
We provide you our suitable sample cloth for trials.
In order to receive this, please send us one of your current filter cloths or fill in our form with all required dimensions.

Code			
Format	**Filter medium**	**Air permeability**	**Design**
630	P	8	D

Filter cartridges

Filter system Clean-Pack FK-CP

This filter system is perfectly suited for fast and clean filtration.

If you do not want to clean your filter housing between product changes, if you want to protect the user and the working environment from toxicity, if hygiene and cleanliness are very important, then the clean-pack filter system is the right choice.

The most common reason for using the clean packs is the elimination of the annoying cleaning effort and the associated time saving. Depending on the throughput quantity, we have the clean packs with 1, 3 or 7 filter candles in lengths 5", 10" and 20". We are also happy to offer alternative candle materials as well as suitable filter housings.

Application areas

Colour kitchens in the automotive industry, parts painting and coating systems, inks and colour production, coating production, solvent production, chemical production, filling lines.

Technical data	
Length	5" I 10" I 20" I 30"
Number of cartridges	1 I 3 I 7 pieces
Filter fineness (Micron)	0,5 I 1 I 5 I 10 I 20 I 30 I 50 I 75 I 100 I 150 I 200
Temperature	70°C
Maximum differential pressure	2,5 bar
Material top plate	Polypropylene
Material cartridge and core	Polypropylene
Protective bag	HDPE (reinforced polyethylene)

Code				
Type	**Number of cartridges**	**Length**	**Fineness**	**Cartriges type**
FK-CP	7	10	1	FK-GX

Pleated filter cartridges FKP

These cartridges have a pleated surface that enables a long service life if filtration performance is high.

Applications

Food, drinks, aqueous solutions, chemicals, drinking water, pharmaceuticals, cosmetics, process water, reverse osmosis pre-filtration, printing inks, wine pre-filtration, magnetic tape dispersions, ventilation filters, oil, gas, inks.

Features (depending on the series)

- Materials: Polypropylene, Borosilicate microfibres
- Absolute filter cartridge with a filter efficiency of 99.98%
- Nominal filter cartridge with a filter efficiency of 90%
- FDA-, USP-compliant
- Sterilisation / in-line sterilisation / autoclavable

End configuration	
DOE double open end	(0)
SOE 226-O-rings + bayonet / end cap	(1)
SOE 222-O-rings / fin	(2)
SOE 226-O-rings + bayonet / fin	(3)
SOE 222-O-rings / Polypropylene end cap	(4)
DOE internal O-rings	(5)
SOE internal O-ring	(6)

222-O-ring

Fin

226-O-ring with bayonet

Polypropylene end cap

Technical data	
Length	9 ¾" I 10" I 20" I 30" I 40"
Diameter	OD: 69 mm / ID: 25.4 mm or 27.9 mm
Filter fineness (micron)	from 0.2 to 100 µm (absolute or nominal)
Maximum differential pressure	5.2 bar at 20°C
Maximum operating temperature	80°C

Code

Cartridge type	Series	Length	Fineness	Configuration	Seal
FKP	1	10	10	3	S

Absolute filter cartridges FKT-A

The FKT-A filter cartridge consist of 100% pure Polypropylene without binding agents and have a Polypropylene supporting core.

Applications

Water for dialysis, cooking oil, food, drinks, pharmaceuticals, galvanic baths, semiconductor production, chemistry, petrochemistry, varnishes, inks and generally as a pre-filter to protect submicron absolute filters.

As absolute filters, the filter cartridge have a separation degree of >99.98%. They meet FDA requirements and are free of silicone.

End configuration	
DOE (standard) Polypropylene flat seals	(0)
SOE 222-O-rings / fin	(2)
SOE 226-O-rings + bayonet / fin	(3)
SOE 222-O-rings / Polypropylene end cap	(4)

Code			
Cartridge type	**Length**	**Fineness**	**Configuration**
FKT-A	20	10	3

Adapters

Polypropylene flat seal

222-O-ring

Fin

226-O-ring with bayonet

Polypropylene end cap

Technical data	
Length	5" I 9 ¾" I 10" I 20" I 30" I 40"
Diameter	OD: 64 mm / ID: 27 mm
Filter fineness (micron, absolute)	0.5 I 1 I 3 I 5 I 10 I 20 I 30 I 50 I 70 I 90 I 120
Throughput of a 10" cartridge (m^3/h), (water)	1.9 I 1.0 I 1.1 I 1.4 I 1.6 I 2.3 I 2.6 I 3.0 I 3.0 I 3.0 I 3.0
Maximum differential pressure	4.0 bar at 25°C
Maximum operating temperature	80°C

Meltblown filter cartridges FK-GX

The FK-GX deep filter cartridges are made of pure Polypropylene microfibres that are thermally joined in the melt-blown procedure.

Applications

Water treatment, high-purity water pre-filter, cooking oils, fine chemicals, resins, reverse osmosis, DI water, seawater de-salination, wine (pre-filtration), drinks, film processing, fixing baths, solvents, cosmetics, galvanic baths.

The cartridges are completely free of binding agents and comply with the FDA requirements.

Technical data	
Length	5" I 9 ¾" I 10" I 19 ½" I 20" I 29 ¼" I 30" I 39" I 40"
Diameter	OD: 64 mm / ID: 28 mm
Filter fineness (micron, normal)	1 I 3 I 5 I 10 I 20 I 30 I 50 I 75
Throughput (l/min per 10")	7 I 9 I 15 I 18 I 20 I 22 I 25 I 25 (water)
Maximum differential pressure	2.5 bar at 30°C
Maximum operating temperature	80°C

Code		
Cartridge type	**Length**	**Fineness**
FK-GX	10	20

Wound string filter cartridges FKW

A thread is wound around a supporting core in the wound filter cartridges. The thread and the supporting core are available in various materials.

Applications

Water treatment, seawater desalination, condensate treatment, process water, photochemicals, film processing, cooking oils, solvents, galvanic baths, greases, acids, bases, chemical processes.

Technical data	
Length	5" I 9 ¾" I 10" I 19 ½" I 20" I 29 ¼" I 30" I 39" I 40"
Diameter	OD: 62 mm I ID: 28 mm
Filter fineness (micron, normal)	0.5 I 1 I 3 I 5 I 10 I 25 I 50 I 75 I 100 I 150 I 200
Winding material	P = Polypropylene I W = Polypropylene, washed
	H = Glass fibres I B = Cotton
	PE = Polyester I N = Polyamide
Supporting core material	P = Polypropylene I S = Stainless steel
Maximum differential pressure	2.5 bar at 30°C
Initial differential pressure	0.1 bar
Maximum operating temperature	80°C for Polypropylene I 135°C for Polyamide
	150°C for Polyester I 150°C for Cotton
	400°C for Glass fibres I 400°C for Stainless steel

Code				
Cartridge type	**Length**	**Wounding material**	**Core**	**Fineness**
FKW	10	P	P	25

Depth filter cartridges FK-KL

The temperature-resistant depth filter cartridge from acrylic fibres successfully filters impurities and opacities from liquids.

The depth filter cartridges from the FK-KL series offer you excellent filtration performance, even during sophisticated processes in your company. Through an innovative procedure, long acrylic fibre connects with phenolic resin during production. That ensures an utterly sturdy filter structure, high temperature resistance and a good dirt absorption. The filter cartridges have proven themselves when filtering highly concentrated chemicals. Our clients form the colour, paint, adhesive and chemical industries are very satisfied with the quality and nominal deposition rates of the depth filter cartridges.

Application areas

Vanishes, colours, printing inks, inks, adhesives, polymers (synthetic resins, natural resins), waxes, solvents, chemicals, emulsions, hydrocarbons, fuels, petroleum, paints, cooling water and wastewater, organic foods like ether, animal and vegetable oils, lubricants and hydraulic liquids, plastics, coatings, photo emulsions.
We recommend not to filter foods or beverages with the depth filter cartridge FK-KL.

Technical data	
Length	9 ¾" I 10" I 19 ½" I 20" I 29 ¼" I 30" I 39" I 40" I 50"
Diameter	OD: 64 mm I ID: 26,5 mm
Filter fineness (micron, normal)	2 I 5 I 10 I 25 I 50 I 75 I 125 I 150
Pressure resistance	9 bar at 20°C
	8.6 bar at 38°C
	6.2 bar at 65°C
	4.5 bar at 82°C
	1.7 bar at 121°C
Maximum differential pressure	2.5 bar
Maximum operating temperature	121°C
Rec. throughput (max.)	38 l/min per 9 ¾" cartridge length

Code		
Cartridge type	**Length**	**Fineness**
FK-KL	9	75

Active carbon filter cartridges FK-AK

Active carbon filter cartridges are used when the purely mechanical filter effect is no longer sufficient for the loosened substances as they are only of a molecular size.

Applications

Water, drinking water, spirits, aqueous and organic solutions (to rectify colour impurities and odour and flavour neutralisation), dechlorination, galvanic baths (removal or organic impurities from nickel and copper baths)

You can differentiate between active carbon types according to their raw material sources (hard coal or coconut) and its delivery forms (pellets, blocks, granules or powder). The active carbon impressively adsorbs many loosened substances from fluids, such as oil, grease, pesticides, colourants and other organic bonds that can otherwise not be filtered mechanically.

Excessive chlorine or disinfected ozone react to active carbon and are rendered harmless. Odorous substances can be bound completely and can no longer dissipate. Bitter substances are adsorbed completely and cannot contaminate any food. In the galvanic area, active carbon can be used effectively against disruptive organic bonds.

Note: We always recommend rinsing active carbon filters until the fluid is visibly clean at the start.

The service life can be improved significantly by upstream filter candles with mechanical filter effects.

Technical data	
Length	9 ¾" I 10" I 19 ½ I 20" I 29 ¼" I 30" I 39" I 40"
Diameter	OD: 64.5 mm I ID: 27 mm
Material	Active carbon (hard coal, coconut)
Supporting bodies and supporting cores	Polypropylene
Casing	Polyethylene, sintered
Seals:	EPDM (flat seals for DOE)
Filter fineness (micron, normal)	approx. 10 µm
Maximum operating temperature	70°C for water
Rec. throughput (max.)	300 l/h per 10" cartridge length

Code

Cartridge type	Length	Fineness
FK-AK	9	10

Wire cloth filter cartridges FK-MK

These filter cartridges made of metal wire are used when plastic filter cartridges cannot be used due to high temperatures or certain chemicals.

The metal wire filter cartridges are completely plasma-welded, free of oil and thermally degreased. The end caps and the longitudinal seams are free of glues.

PTFE flat seals are inserted in the grooves of the filter cartridges that open on both sides (DOE) as standard. Threads or adapters that are customary in the industry can be manufactured according to the housing type.

You can choose between filter finenesses of from 1 µm to 1000 µm; bear in mind that the filter surface area decreases as the filter fineness increases. There is the option of using a pleated variant to increase the filter surface area.

Applications

Hot fluids, solvents, viscous fluids, oxidants (e.g. potassium permanganate, hydrogen peroxide, nitric acid, etc.), hot steam

Technical data	
Length	4 ¾" I 9 ¾" I 19 ½" I 29 ¼" I 39" I 40"
Diameter	OD: 64 mm I ID: 27 mm
Mesh openings (micron)	1 µm – 1000 µm
Material	Stainless steel, 1.4301
Sealing material	PTFE
Cloth surface area	approx. 500 cm^2 (pleated: 1,500 cm^2)
Maximum operating temperature	up to 200°C for water
Recommended filter change	2 bar differential pressure

Code		
Cartridge type	**Length**	**Fineness**
FK-MK	40	100

Air filters

Filter pads I Filters for spray paint systems

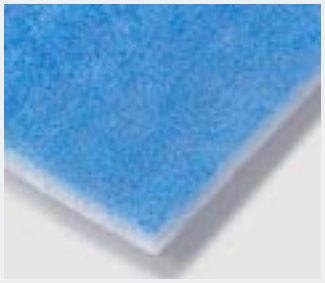
Polyester filter pads are used as pre-filters and main filters for all ventilation and air conditioning systems. Filters for spray paint systems are used to separate dry dusts and paint mists.

Filter pads

All synthetic filter pads consist of a progressively built up Polyester filter medium. The individual fibres are affixed by thermobonding or needling. Chemical bonding agents are not used. Filter pads (G2-G4) can be reused. Fine dust filter pads (M5) are intended for one-time use. Regeneration is not intended. Nine pad types with various filter classes, thicknesses and flow rates are available. The filter pads are available on the roll or in pieces.

Filters for spray paint systems

Glass fibre filter pads consist of a glass fibre web and are free of silicone and substances that damage paint. The Dust-Stop filter pads are equipped with an antibacterial dust binding agent to separate dry dusts. Paint-Stop filter pads are used especially to protect against paint deposits in ventilation ducts, as well as on motors and fans. All glass fibre filter pads are approved for the automotive industry.



Panel filters I Z-Line filters

Panel filters are the alternative to filter pads. They can be manufactured simply or pleated as Z-Line filter cells for increased dust storage capacity.

Panel filters

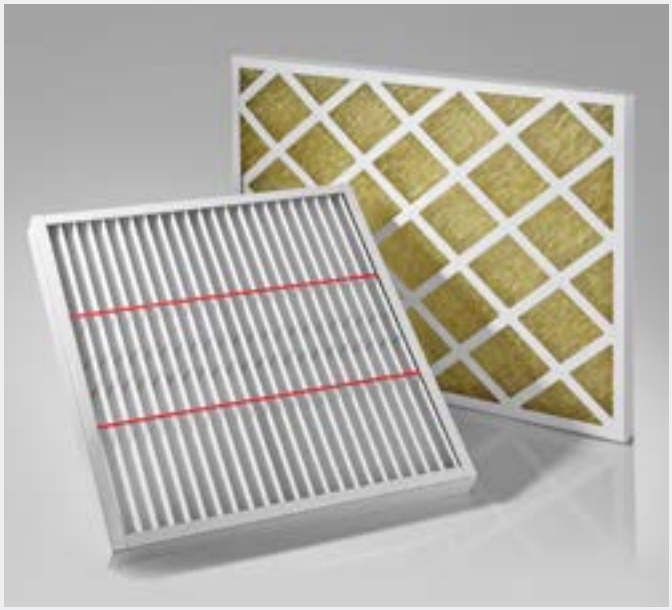
Panel filters can be equipped with glass fibre or synthetic media. A wide range of frame materials such as moisture-resistant cardboard, galvanised metal or plastic are available for them.

Z-line filters

Z-line filters are different due to the filter medium being folded in a Z shape. This provides these elements with a service life that is 2.5 times as long.

Applications

Pre-filtration for air conditioning and ventilation devices or systems that must remove coarse dusts highly efficiently.



Pocket filters

For filtration in all types of ventilation and air conditioning systems and devices.

The individual pockets are welded conically and are connected so that they are leak-tight using the single frame structure. Frames made of galvanised steel or plastic are used as standard. The frame depth is 25 mm (optional: 20 mm). We can also provide an optional PP flat seal. If the filter media are multi-layer Polypropylene melt-blown synthetic filter media or glass fibre filter media, the individual seams are sealed using hot-melt adhesive to prevent dust penetration.

Applications

Air conditioning systems, offices, warehouses, hospitals, computer centres, telephone exchanges, factories for the optical, fine mechanical, electronic, pharmaceutical and chemical industries. Furthermore, they are used as pre-filters for filters for suspended particles and as pre-filters in varnish and paint spraying plants.

Code				
Pocket filters	**Width x height x depth**	**Filter class**	**Number of pockets**	**Frame**
TF	592 x 592 x 600	F7	6	M

Compact filters

Powerful fine dust compact filters for all types of ventilation and air conditioning systems.

Thanks to the mini-pleat design, very narrow pleat gaps and therefore a very large filter surface area can be created and implemented. The filters can also be used in pocket filters and installed both horizontally and vertically; they are corrosion-free and moisture-resistant at up to 100% relative air humidity. All compact filters in this range can be fully incinerated. You can obtain all common filter classes between M6 and H13 from us.

Applications

Main filter stage in air conditioning, ventilation and turbine systems, fine dust filtration in all types of ventilation and air conditioning systems, e.g. in offices, hospitals, computer centres or airport, intake or exhaust filters for the photographic, electrical, pharmaceutical and food industries, microfiltering in process technology, pre-filter for clean room systems and filters for suspended particles.

Code		
Compact filters	**Width x height x depth**	**Filter class**
CF	592 x 592 x 292	F9

Filter modules and filter sheets

Filter modules

Filtration made easy: with our revolutionary filter modules

You are sure to be familiar with the problem only too well: in day-to-day practice, efficient and flexible filtration solutions are indispensable. Manual and time-consuming filtration processes? You can spare yourself all that from now on! Schwegmann Filtrations-Technik presents you with an innovative solution: our practical filter modules!

The filter modules are circle segments made of depth filter sheets, which are attached lenticularly to the drainage body. Several of these lenses are arranged on top of each other and connected by a grid bushing made of polypropylene. Sealing rings between the lenses reliably eliminate the penetration of particles.

Flexible customisation of your filtration system

The filter modules offer the unique advantage of flexible customisation: the number of modules in your system can be designed variably. This allows you to easily expand or reduce the filtration area as needed. The modules work exclusively in a closed system without a flow, which makes filtration even more efficient and safe. In addition, the filter modules can be regenerated, making them a long-term and sustainable investment for your company.

Special adaptation options

Our filter modules are customisable and can be made with fewer than the standard 16 lenses per unit. For high-volume debris, spacers are built into individual lenses, reducing the number of lenses and increasing efficiency.

Wide range of application areas

- Beverage industry
- Pharmaceutical industry
- Chemical industry
- Cosmetics industry
- Biotechnology

Our filter modules are the perfect solution wherever economical and efficient filtration is required. They combine the advantages of depth filtration with a closed system that eliminates air ingress.

Depth filter sheets

The innovation in filtration technology






Our depth filter sheets are a three-dimensional depth filter made of adsorbents with an impressively large inner surface. Imagine the adsorbents as a complex network of chambers and channels of different lengths in which impurities are efficiently trapped.
In contrast to conventional sieve filtration, the depth filter sheet significantly increases the total filtration area, which considerably increases the amount of filtered solution.

Filtration mechanism: triple protection for your processes

Three different types of filtration interact during the filtration process through the depth filter sheet. These mechanisms work together to ensure an outstanding result:

1. Mechanical filtration

Foreign bodies and particles that are larger than the pores of the filter sheet remain mechanically on the surface of the sheet and are effectively retained.

2. Electrostatic adsorption

This is a weak molecular interaction, known as „van der Waals forces", that occurs between the particles in the solution and the material of the filter sheet. This means that smaller particles are also captured inside the sheet, in the chambers and channels.

3. Electrokinetic adsorption

This mechanism is based on the so-called zeta potential. The filter sheet is positively charged by a special modification of the polyelectrolytes. This positive charge ensures that negatively charged dirt particles, microorganisms and viruses in suspension fluids are efficiently captured – even particles that are ten times smaller than the pore size of the filter sheet.

Wide range of possible uses and formats

Depth filter sheets are available in the formats 20x20, 40x40 and 60x61.4 cm. Other dimensions are also available based on specific customer requirements, such as round sheets or sheets with special hole patterns.

Your advantages:

- **Maximum filtration area**
  The large inner surface of the filter sheet allows a higher volume of filtered solution.
- **Multiple filtration mechanisms**
  Mechanical, electrostatic and electrokinetic adsorption work together for the best filtration results.
- **Efficient particle binding**
  Effective capture of particles, microorganisms and viruses, even at the smallest sizes.
- **Flexibility**
  Available in different formats and can be customised to your specific requirements on request.

Application areas:

Chemical industry, Food and beverage production, Pharmaceutical industry, Water treatment, Life science, Cosmetic products / cosmetics industry

Bag filters

Bag filters EL

The light stainless steel design with a side intake principle.

The special design feature is the light stainless steel design with side intake principle, which prevents the suspension running on or overflowing when the housing cover is open. The V-clamp enables the cover to be opened and closed easily. It is installed so that it is self-supporting, using a base frame or wall attachment clips. The low-priced EL variant can only be delivered in the standard version.

Function

Bag filters comprise three components: the filter housing, the pressure absorption basket and the filter bag. Filtration is carried out from inside to outside. The fluid to be filtered (suspension) enters the filter via the inlet, flows through the filter bag that is reinforced by the pressure absorption basket and exits through the floor outlet. A displacer can be used to reduce the residual contamination quantity. The solids that are in the bag can be disposed of easily, as the bag retains only a small amount of residual fluid thanks to its low tare volume.

Advantages and uses

Bag filter systems are user-friendly, versatile, cost-saving, robust and constructed to a high quality. The inner housing is made easier to clean thanks to the smooth design that eliminates dead space. No special tools are required to open the bag filters. This makes cleaning and changing the filter bag easier. We also offer a wide range of ring filter bags and accessories.

Technical data		
Type	EL	
Bag size	1 I 2 I 10 I 20	(see ring filter bags)
Maximum operating data (bar)	6 I 6 I 9 I 9	
Maximum throughput (m^3/h)	20 I 40 I 6 I 12	
Material	Stainless steel 1.4571	
Connections	Size 1 and 2:	2" threads – DN50 (M)
	Size 10:	1" threads – DN25 (M) or 1½" thread – DN40 (M)
	Size 20:	1½" threads – DN40 (M)

Code						
Device type	**Number of bags**	**Size**	**Material**	**Pressure**	**Connection**	**Connection type**
EL	1	1	S	6	DN50	M

Bag filters SL

The solid high-pressure design with a side intake principle.

The difference between this and the EL and FL variants is the high-pressure design. Various options can be manufactured for this device, such as a milk pipe or tri-clamp connections. The housings can be completely electropolished and smoothed to enable use in the food and pharmaceutical industries.

Function

Bag filters comprise three components: the filter housing, the pressure absorption basket and the filter bag. Filtration is carried out from inside to outside. The fluid to be filtered (suspension) enters the filter via the inlet, flows through the filter bag that is reinforced by the pressure absorption basket and exits through the floor outlet. A displacer can be used to reduce the residual contamination quantity. The solids that are in the bag can be disposed of easily, as the bag retains only a small amount of residual fluid thanks to its low tare volume.

Advantages and uses

Bag filter systems are user-friendly, versatile, cost-saving, robust and constructed to a high quality. The inner housing is made easier to clean thanks to the smooth design that eliminates dead space. No special tools are required to open the bag filters. This makes cleaning and changing the filter bag easier. We also offer a wide range of ring filter bags and accessories.

Technical data		
Type	SL	
Bag size	1 I 2 I 10 I 20	(see ring filter bags)
Maximum operating data (bar)	10 I 10 I 16 I 16	
Maximum throughput (m^3/h)	20 I 40 I 6 I 12	
Material	Stainless steel 1.4408, 1.4571	
Connections	Size 1 and 2:	DN50 or DN80 flange (F)
	Size 10 and 20:	1½" threads – DN40 (M)

Code

Device type	Number of bags	Size	Material	Pressure	Connection	Connection type
SL	1	1	S	10	DN50	F

Bag filters TL

The high-quality design with lid inlet principle for optimised product flow.

The TL bag filter is a high-quality design with a lid inlet principle. This guarantees optimised product flow through the lid into the filter housing. The TL version also offers a swing eyebold closure. Installation is carried out using the height-adjustable base frame that is supplied with the order.

Function

Bag filters comprise three components: the filter housing, the pressure absorption basket and the filter bag. Filtration is carried out from inside to outside. The fluid to be filtered (suspension) enters the filter via the inlet, flows through the filter bag that is reinforced by the pressure absorption basket and exits through the floor outlet. A displacer can be used to reduce the residual contamination quantity. The solids that are in the bag can be disposed of easily, as the bag retains only a small amount of residual fluid thanks to its low tare volume.

Advantages and uses

Bag filter systems are user-friendly, versatile, cost-saving, robust and constructed to a high quality. The inner housing is made easier to clean thanks to the smooth design that eliminates dead space. No special tools are required to open the bag filters. This makes cleaning and changing the filter bag easier. We also offer a wide range of ring filter bags and accessories.

Technical data	
Type	TL
Bag size	1 I 2 (see ring filter bags)
Maximum operating data (bar)	10 I 10
Maximum throughput (m^3/h)	20 I 40
Material	Stainless steel 1.4408, 1.4571
Connections	DN50 flange (F)

Code						
Device type	**Number of bags**	**Size**	**Material**	**Pressure**	**Connection**	**Connection type**
TL	1	1	S	10	DN50	F

Bag filters ML

Multi bag filter housing made of stainless steel – more profitability and safety for filtration

For extremely sophisticated filtration processes, the multi bag filter housing from Schwegmann Filtrations-Technik is an excellent choice. It is available in different models. Depending on the size there is room for four, six, eight or twelve individual filter bags in the filter bag housing. This allows for maximum flow rates of 100 to 300 m^3/h.

The bag filter housing is a pressure vessel made of stainless steel that fits four, six, eight or twelve ring filter bags. The filter housing is made of a vertical, cylindrical shell with a foldable cover. The stainless-steel cover is securely closed with eye bolts and ring nuts. Thanks to its spring-loaded swivel device, it can be handled comfortably. Liquids enter the housing via the lateral inlet into the filter bags and exit filtered in the lower housing base. We gladly deliver the multi bag filter housing with a quick lock to your company.

Scopes of Application

Automotive industry, foods and beverages, chemical handling processes, paints, inks, resins, and coatings, electronics, petrochemistry, municipal wastewater treatment, industrials wastewater treatment, paper and tissue, pharmaceutical industry, lubricants, liquids for metalworking, solvents

Your Advantages

- filter surface increases
- significantly longer downtimes in production possible
- achievement of higher flow rates
- optimisation of product safety and quality
- lower setup costs due to less interruptions for the exchange of bag filters
- ideal for batch processes with high pollutant loads
- user-friendly and cost-effective alternative in complex filter processes
- versatile applications in your company thanks to the low height the housing
- quick and comfortable exchange of the filter bags
- the setup of ladders or runways for filter changes is completely omitted
- the lateral inlet and outlet on the housing allows for quick and complete emptying

Technische Daten	
Type	ML
Bag size	4-2 I 6-2 I 8-2 I 12-2
Maximum operating data (bar)	10 I 10 I 10 I 10
Maximum throughput (m^3/h)	100 I 150 I 200 I 300
Material	Stainless steel
Connections	DN100 I DN150 I DN200 I DN250

Code						
Device type	**Number of bags**	**Size**	**Material**	**Pressure**	**Connection**	**Connection type**
ML	4	2	S	10	DN100	F

Upon request, the Schwegmann multi bag filter housing is available in accordance with ATEX 2014/34/EU.

Bag filters PL

The special design features is the one-piece base body made of glass fibre reinforced Polypropylene or PVDF for high corrosion resistance.

Plastic bag filter housings are free of metal parts that are at risk of corrosion. The glass fibre reinforced propylene or PVDF housings are used when filtering very aggressive fluids.

Function

Bag filters comprise three components: the filter housing, the pressure absorption basket and the filter bag. Filtration is carried out from inside to outside. The fluid to be filtered (suspension) enters the filter via the inlet, flows through the filter bag that is reinforced by the pressure absorption basket and exits through the floor outlet. A displacer can be used to reduce the residual contamination quantity. The solids that are in the bag can be disposed of easily, as the bag retains only a small amount of residual fluid thanks to its low tare volume.

Advantages and uses

The integrated clamping flange enables reliable floor attachment. The bag filter is opened manually. No special tools are required. There are two floor connections on opposite sides and they can also be used as drains or product outlets. The product outlet can therefore be placed on the same side as the product inlet or on the opposite side of the bag filter. This makes installation significantly easier. The connections are provided as threads or a flanges. The inner housing is made easier to clean thanks to the base body's one-piece design.

Technical data	
Type	PL
Bag size	1 I 2 (see ring filter bags)
Maximum operating data (bar)	10 I 10 (7 bar for the PVDF housing)
Maximum throughput (m^3/h)	12 I 24
Material	Polypropylene (PVDF also possible for size 2)
Connections	2" threads – DN50 (M) I DN50 flange (F)

Code						
Device type	**Number of bags**	**Size**	**Material**	**Pressure**	**Connection**	**Connection type**
PL	1	1	P	10	DN50	F

Technical data[1] sheet – Bag filters

Bag filter type	EL		SL		TL		ML		PL	
Size	1	2	1	2	1	2	4-2	6-2	1	2
	10	20	10	20	-	-	8-2	12-2	-	-
Material	Stainless steel		Stainless steel*		Stainless steel*		Stainless steel		Polypropylene	
Maximum operating data (bar|°C)	6|120	6|120	10|160	10|160	10|160	10|160	10|80	10|80	10|21	10|21
	9|120	9|120	16|160	16|160	-	-	10|80	10|80	-	-
Lid type	Loose lid		Flap lid		Flap lid		Flap lid		Loose lid	
	Loose lid		Flap lid		-		Flap lid		-	
Lid lock	V clamp		4 flap lug screws		4 flap lug screws		8 / 10/ 18 / 20		Screw lock	
	V clamp		4 flap lug screws		-		folding eye bolts		-	
Filter connections (Inlet|Outlet)	2" BSP threads		DN50 / DN80 flange		DN50 flange		DN100 flange	DN150 flange	2" flange	
	1 ½" or 1" BSP threads		1 ½" BSP threads		-		DN200 flange	DN250 flange	alternativ DN50 flange	
Maximum throughput (m^3|h)**	20	40	20	40	20	40	100	150	12	23
	6	12	6	12	-	-	200	300	-	-
Filter bag size	R1	R2	R1	R2	R1	R2	R2	R2	R1	R2
	R10	R20	R10	R20	-	-	R2	R2	-	-
Filter surface area (m^2)	0,25	0,50	0,25	0,50	0,25	0,50	2,00	3,00	0,185	0,38
	0,09	0,16	0,09	0,16	-	-	4,00	6,00	-	-
Number of gaskets***	1	1	2	2	2	2	1	1	2	2
	1	1	1	1	-	-	1	1	-	-
Housing capacity (litres)	15,5	27	18	32	13	27,5	222	280	25	36
	3	4,5	3	4,5	-	-	650	765	-	-
Housing weight (kg)	7,5	11	38	46	36	42	219	299	23	31
	3,5	4,5	12	13	-	-	520	580	-	-
Venting valve (")	¼	¼	¼	¼	¼	¼	½	½	¼	¼
	¼	¼	¼	¼	-	-	½	½	-	-

* Stainless CrNiMo steel with a minimum quality of 1.4401 or 1.4408 - stainless steel precision casting
** Maximum theoretical throughput (viscosity similar to water), depending on the filter bag
*** Standard seal = NBR O-ring, the standard seal for the PL bag filter type is made of FPM

[1]non-binding specifications

Accessoires

To improve your processes in the production we offer useful accessoires.

Leg assembly

We can supply a leg assembly as an accessory for the EL, FL and SL bag filter types if wall installation is impossible. The leg assembly is supplied as standard with the TL housing.

Fastening clamp

The fastening clamp is available for the EL, FL and SL bag filter types and is used for wall fastening.

Bag fixing ring

The bag fixing ring ensures that the filter bag sits correctly in the housing and prevents it floating due to back-ups. This also prevents the filter bag breaking.

Magnetic separator

Magnetic separators are a combination of bag retainers with bar magnets. This relieves the filter bags of magnetic particles significantly and therefore increases their service life. The magnetic separators are available in sizes 1 and 2, and can be provided with 1 or 2 bar magnets each.

Evacuation balloon

A evacuation balloon can be used to reduce the residual contamination quantity in the bag filter to a minimum and therefore to make changing the bag easier. The stainless steel displacers are pressure-resistant up to 16 bar and available in sizes 1 and 2.

Mesh strainers

The mesh strainers are available in four different sizes to fit the housings. They are made completely of stainless steel and available with mesh openings of 25, 50, 100, 150, 250, 400 and 800 µm.

Pressure gauge

Indicates the pressure present in the bag filter in bar. Many housings can also be supplied with differential pressure gauges upon request.

Venting valve

Used to vent the bag filter before opening. Automatic Venting valves can also be supplied upon request.

Spare parts

We offer a wide range of spare parts for our bag filter housings.

Gaskets

Gaskets are wear parts and must be replaced regularly. Available materials: NBR, EPDM, FPM, FEP, coated FPM and silicone.

Restrainer basket

Robust, electropolished restrainer baskets made out of perforated sheet metal enable filter bags to be used up to a differential pressure of 3.5 bar.

Lifting device

The lifting device enables the pressure absorption basket to be removed safely and easily when changing the filter bag. It is supplied as standard but is also available as a spare part for all bag filter types.

Bag hold-down rings

The bag hold-down rings ensures that the ring filter bag sits well in the housing. It is supplied as standard but is also available as a spare part for all EL, FL and SL housings.

Lock screw

This lock screw is used if neither a pressure gauge nor a venting valve are connected.

Cartridge filters

Cartridge filters T-Series

Cartridge filters in the T range are made of high quality stainless steel and can be supplied for 1, 3, 6, 11, 19, 37 and 73 filter cartridge in lengths of 9 ¾" to 40".

The individual cartridge filters in the T range consist of a head and a sump, and are opened and closed using a tri clamp ring. The housing's sump is mechanically polished to ensure better cleaning. The inlet and outlet (1" threads) are arranged opposite each other in the housing head. The housings have a drain in the base (BSP 3I8"). The seal is provided by an NBR O-ring seal. The sealing rings can also be supplied in FPM and EPDM as an accessory. There are four different versions of the housing for the DOE and SOE filter cartridge types.

Multi cartridge filters in the T range can be supplied as stainless steel versions (1.4571; 1.4408) or made of special materials such as HASTELLOY for 3 to 73 standard filter cartridges. Depending on the housing type, the filters are supplied with flat or domed lids, with flap lug screws or segment bracket screws, with a loose lid or a lifting and pivoting lid (hand wheel or hydraulic), with a side inlet and with a central base outlet.

The container seal is provided by an NBR seal in the lid area. The sealing rings can also be supplied in different materials such as FPM and EPDM as an accessory. The filters have a drain valve in the container lid and a drain above the perforated base plate.

Technical data*								
T-	1-10	1-20	1-30	1-40	3-10	3-20	3-30	3-40
Maximum throughput (m^3/h)	2.4	4.8	4.8	4.8	4.5	9	13.5	18
Permissible operating conditions (bar/°C)	20 / 121				16 / 160			
Volume (litres)	1.8	3.2	4.4	5.8	9.2	14.7	20.1	25.6
Weight (kg)	3.9	4.5	5.1	5.7	31	35	40	46
Inlet/outlet	1" thread (ISO 228-1)				1½" thread (ISO 228-1)			
Drain	3/8" thread (ISO 228-1)				2 x ½" thread (ISO 228-1)			
Venting valve	None				2 x ¼" thread (ISO 228-1)			
Cartridge filter material	Stainless steel 1.4408, 1.4571				Stainless steel 1.4408, 1.4571			
Gasket material	NBR O-ring				NBR O-ring			
Cartridge length (")	9¾, 10	19½, 20	29¼, 30	39, 40	9¾, 10	19½, 20	29¼, 30	39, 40
Number of cartridges	1	1	1	1	3	3	3	3

*non-binding specifications
Technical data for housing sizes 6, 11, 19, 37 and 73 is available upon request.

Code						
Type	Number of cartridge	Length	Material	Connection	Cartridge type	Drain
T	1	10	S	1	0	E

Cartridge filters E-Series

Stainless steel cartridge filters are of a light stainless steel design and can be supplied for 1, 5, 12 and 22 DOE filter cartridges in lengths of 5" to 40".

The single version comprises a head and a sump, which can be screwed together using a locking nut. The inlet and outlet (¾" or 1" threads) are arranged opposite each other in the housing head. The seal is provided by an NBR O-ring seal (EPDM or FPM upon request). The housing can be drained via a 3I8" thread on the base. A mounting console for wall mounting can be supplied as an accessory.

The 5, 12 and 22 versions are standing versions or versions supplied with a base frame. The housings are closed using a V clip. The seal is provided by an NBR O-ring seal. FPM seals can also be supplied.

The inlet and outlet are located in the lower container area. A ½" thread is also installed there, in order to enable the contamination and filter spaces to be drained. In order to ensure that the filter cartridges are mounted securely, they are mounted on centring bars using a retainer plate via seal caps with springs. The container lids are equipped with a ¼" BSP thread to install a pressure gauge or a venting valve.

Technical data*

E-	1-5	1-9	1-10	1-20	1-30	1-40	5-9	5-20	5-30	5-40
Maximum throughput (m^3/h)	1.1	2.4	2.4	4.8	4.8	4.8	8.4	16.8	25.2	33.6
Permissible operating conditions (bar/°C)	17 / 121						10 / 121			
Volume (litres)	0.7	1.51	1.54	2.98	4.42	5.87	14	23	31	38
Weight (kg)	2.5	3.28	3.29	3.82	4.34	4.87	13	16	19	22
Inlet/outlet	1" thread (ISO 228-1), ¾" thread (ISO 228-1)						2" BSP thread			
Drain	3/8" thread (ISO 228-1)						2 x ½" BSP thread			
Venting valve	None						¼" BSP thread			
Cartridge filter material	Stainless steel, 1.4408, 1.4571						Stainless steel, 1.4301			
Gasket material	NBR O-ring						NBR O-ring			
Cartridge length (")	5	9¾	10	20	30	40	9¾ / 10	19½ / 20	29¼ / 30	39 / 40
Number of cartridges	1	1	1	1	1	1	5	5	5	5

*non-binding specifications
Technical data for housing sizes 12 and 22 is available upon request.

Code

Type	Number of cartridge	Length	Material	Connection	Drain
E	1	20	S	1	E

Cartridge filters K-Series

Plastic cartridge filters are single cartridge filters for standards filter cartridges that open on both sides.

The plastic filter housings are available in two housing diameters („S“ version, 12.2 cm and „L“ version, 18.5 cm) and three lengths (5", 9" and 20").

The housing head is made of Polypropylene and has an inlet and an outlet in ⅜" BSP, ¾" BSP, 1" BSP or 1½" BSP which are arranged opposite each other in the filter housing's head. The housing is therefore easy to install on the piping.

The „S“ version's sump can either be made of Polypropylene or can be a transparent sump (SAN). The „L“ version is made entirely of Polypropylene.

There is an NBR O-ring seal between the housing head and the sump. FPM seals are also available as an alternative. All housings can be supplied with a venting valve (add „E“).

Technical data*					
K-	1-5-S-P-3/8 1-5-S-S-3/8	1-9-S-P 1-9-S-S	1-20-S-P	1-9-L-P-1,5-E	1-20-L-P-1,5-E
Maximum operating conditions (bar/°C)	8/50				
Filter connections (N1/N2) BSP female thread (")	⅜	⅜, ¾	¾, 1	1½	1½
Filter cartridge length (")	5	9¾	20	9¾	20
Filter head material	Polypropylene (P)				
Filter sump material	Polypropylene (P)	Polypropylene (P)	Polypropylene (P)	Polypropylene (P)	Polypropylene (P)
	SAN (S)	SAN (S)	-	-	-
O-ring gasket material	NBR				
Venting valve	Optional (add „E“)			ja	
Wrench	S-K-P-S			S-K-P-L	
Mounting bracket	BK-K-S-S			BK-K-S-L	

*non-binding specifications

Code						
Type	Number of cartridges	Length	Cartridge diameter	Material	Connection	Venting value
K	1	20	S	P	1	E

Spare parts I Accessoires

We offer original spare parts and accessories for all cartridge filter housings.

Mounting brackets and wrench

We offer a wall mounting bracket and a wrench for all plastic cartridge filters. Wall mounting is carried out via the housing head so that the sump can be removed, the cartridge disposed of and reinstalled. You can use the wrench to loosen the sump easily.

Gaskets

Gaskets are spare parts and must be replaced regularly. Available materials: NBR, EPDM, FPM, FEP, coated FPM and silicone.

Mobile Filter Trolleys

Mobile Filter Trolleys

Flexibly and easily usable in different locations

3-in-1: compactly filter, suck, and pump liquids
The mobile filtration systems provide the separation of foreign and dirt particles as well as the rinse after reparations, modifications or during the operation of your machines. During all of this, our mobile filter trolleys are comfortably and safely handled. The big plus for you: shorter machine downtimes and optimisation of the complete production utilisation. The high quality and first-class filtration of our mobile suction and filter trolleys have already convinced many customers.

All benefits of the mobile filter trolleys by Schwegmann:
- possible applications in different areas of productions
- a modular construction for maximum flexibility
- components coordinated with your specifications (filter housing, connections, insulation, pressure difference indicator, pump)
- Fast and uncomplicated exchange of the filter bags without special tools
- Filtration from the inside to the outside, residues remain in the filter bag
- Shortening of the machine downtime
- Individual setting of the grade of filtration
- Cost-efficient filtration
- Perfectly coordinated pump capacity
- Developed and produced in Germany with long-standing rules of thumb

Our movable unit with pump and bag filter reliably filters:
- Lacquer
- Paint
- Ink
- Solvents
- Adhesives
- Detergents
- Cosmetics
- Liquid chemicals of all kinds
- Beverages
- And many more

Depending on the requirements you can choose between the following systems for mobile filtration:
- Switch bag filter
- Row bag filter
- Double bag filter
- Duplex bag filter
- Compressed air-driven pump filter trolley
- One-step or two-step fine filtering system
- Multi-step candle filter station

We put great emphasis on flexibility and individuality in our filtration solutions at Schwegmann. Our filter trolleys, too, have already proven themselves in many different industries, such as the coatings and paints industry, the chemical industry, cleaning industry and cosmetics industry, as well as the adhesives industry.

LabFiX Laboratory Filter

LabFiX Laboratory Filter

The innovation for the laboratory: quickly filter lacquers, paints and primers

You surely know this problem all too well: The microfiltration of highly viscous lacquers by close filtration is a time-consuming and complex procedure in the daily laboratory practice in the chemical sector. Manually filtering lacquers? From now on, you can save it! Schwegmann Filtrations-Technik exclusively presents you a real problem-solver: The innovative laboratory filter by the Thierry GmbH!
Industrial coatings, automobile paints, coating materials, oils, stains, primers, glues and other liquids can quickly be filtered with the LabFix. Simple and comfortable with the help of compressed air. The excellent result will convince you. An investion for your laboratory that pays off within the first use und constantly optimizies your process sequences. A laboratory filter in best quality – developed in Germany by experienced experts!

How does filtering lacquer with the LabFix work?
Filerting lacquer and paint in no time: Thanks to the integrated clamp, every sieve cloth can be clamped quickly. As soon as the chemical funnel is inside the device, it is closed airtight with the help of the lid and the mounting fastener. Now you only need to add compressed air and the filtration process is completed.

What amounts of lacquer is the Thierry Laboraroty Filter suitable for?
The LabFix was primaliry developed for the use in a professional lacquer lab. Amounts in the range of <200 g to 25 kg can quickly be filtered without a problem. Suitable for every kind of sieve cloth (like Polyamide monofilament textile (Nylon or wire cloth) and every mesh opening (from 10 µm to 200 µm).

With LabFix you can:
- quickly and precisely filter even the smallest and highly viscous amounts of laquer,
- optimize your processes in the lab,
- use sieve cloth cuts as well as paper funnel sieves for filtration,
- save valuable resources and cleaning expenses,
- use mesh openings equivalent to procution,
- do without stirring and tapping during the filtration process,
- create products that set new standards.

Scopes
Industrial coatings, automobile paints, coating materials / paints, oils, stains, primers, glues, other chemicals

Suitable for mesh openings from 1 µm to 100 µm (1 µm, 5 µm, 10 µm, 15 µm, 20 µm, 25 µm, 30 µm, 40 µm, 50 µm, 56 µm, 60 µm, 70 µm, 80 µm & 100 µm).

Wedge wire filter

Wedge wire filter

Environmentally friendly filtration of viscous media

Discover the wedge wire filter, the optimal solution for filtering viscous media in industrial and food applications. These self-cleaning filter systems offer a sustainable alternative to conventional filter elements by completely avoiding the use of disposable filter media, thus significantly minimising the consumption of resources.
Thanks to their robust and stable construction, edge-split filter systems are designed for continuous operation. They are characterised by high differential pressure resistance and a maximum operating temperature of up to 200°C. With flow rates of up to 70 m^3/h, they can easily handle almost all low- and high-viscosity liquids.

How does the wedge wire filter work?
Filtration in the wedge wire filter takes place from the outside in through the cylindrical wedge wire, where the solids collect on the outside. A geared motor ensures that the wedge wire rotates continuously. The scraper removes the filter cake from the surface, eliminating the need for the disposal of conventional filter cartridges.

The removed solids collect in the lower part of the filter and can be easily removed from the housing in three ways:
- Manually by opening a ball valve
- Automatically via a time-controlled valve or
- Using an electronic control system with differential pressure monitoring that controls a drain valve

The AS50 wedge wire filter is specially designed for industrial applications. It saves you the otherwise frequent opening and cleaning of the filter housing. With a maximum flow rate of up to 3.5 m^3/h, it offers a reliable and efficient solution for the filtration of viscous media.

The AS50 model consists of the following parts:
1. filter housing and head
2. cylindrical slotted tubular element or perforated plate element
3. scraper basket with wiper
4. geared motor

The filter element can be conveniently removed from below, which makes handling easier.

In addition to the standard wedge wire filter with motor, models with a hand crank are also available. You can also order the wedge wire filter from us with ATEX and food approval.

Examples of application areas:

Chocolate and cocoa mass, Marzipan, Coffee extract, Yeast, Paints and varnishes, Emulsion paints, Printing inks, Adhesives, Tar products, Solvents, Gear oil, rolling oils, rapeseed oil, Emulsions, Plasticisers, Polyurethane, Cooling lubricants

Notes

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Stand 10/2024