

A large, white, ribbed roll of filter fleece material is shown against a white background. The roll is positioned vertically, with the left side showing the edge of the material and the right side showing the full circumference of the roll. The material has a fine, woven texture.

Product Overview
Filter Fleece

Overview

As a medium-sized family business from southern Germany, we are your partner in filtration matters with over 15 years of experience. For us, competent advice, high flexibility and short reaction times in a partnership with you are our top priority.

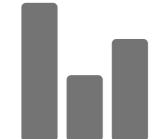
Our core competence is the provision of filter fleece and various filter elements as well as filter technology for solid-liquid separation.



Nonwoven types

Here you will find a detailed overview of our nonwovens.

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Selection diagram

With our selection guide you will find the right fleece quality.

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Production

We cut filter fleece rolls according to customer requirements.

Page 7



Useful information

Information on nonwovens and their filter properties.

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Belt filter systems

The most common belt filter types at a glance.

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Other products

Our products in the field of air and liquid filtration.

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Three Steps to Your Filter Fleece



1

Process analysis

- Machining process
- Material
- Medium
- Belt filter system
- Current nonwoven type



2

Goal / Process optimization

- Cost reduction due to reduced nonwoven consumption
- Longer service life of pumps, tools and medium
- Finer / coarser filtration
- Better component quality



3

Filter fleece selection

- Assortment of over 100 different fleece types
- Comparison of the actual/target product properties
- Systematic decision to achieve the goal

Overview Nonwoven Types



S-PES-W

Waterjet fleece

Fiber composition
100 % polyester

Bonding
Mechanical (hydroentanglement)

Filtration type
Depth filtration (3D)

Grammage
50 - 300 g/m², e.g. 50 | 70 | 100 | 150 g/m²

Machining process
Milling, grinding, honing, smoothing, lapping

Medium
Cooling lubricants, mineral oils, water

Belt filter recommendation
Gravity, inclined bed, compact, vacuum and pressure belt filter

- Uniform pore structure
- Versatile in use



S-PES-N

Needle felt

Fiber composition
100 % polyester

Bonding
Mechanical (needle punched & calandered)

Filtration type
Depth filtration (3D)

Grammage
40 - 300 g/m², e.g. 40 | 60 | 80 | 125 | 150 | 300 g/m²

Machining process
Drilling, turning, milling, grinding, honing, smoothing

Medium
Cooling lubricants, mineral oils, water

Belt filter recommendation
Gravity, inclined bed, compact, vacuum and pressure belt filter

- Mechanically bonded nonwoven (binder-free)
- Versatile in use



S-PES-F

Spunbond

Fiber composition
100 % polyester

Bonding
Thermal

Filtration type
Surface filtration (2D)

Grammage
20 - 100 g/m², e.g. 30 | 40 | 50 | 60 | 70 | 80 | 100 g/m²

Machining process
Drilling, turning, milling, grinding, honing, smoothing

Medium
Cooling lubricants, mineral oils, water

Belt filter recommendation
Gravity, inclined bed, compact, vacuum and pressure belt filter

- Binder-free
- Very high transverse / longitudinal tensile forces



S-CV

Viscose nonwoven

Fiber composition
100 % viscose

Bonding
Chemical (binder)

Filtration type
Surface filtration (2D)

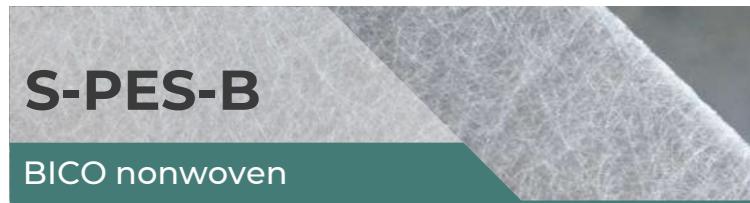
Grammage
20 - 60 g/m², e.g. 20 | 25 | 30 | 35 | 40 | 50 | 60 g/m²

Machining process
Drilling, turning, milling, grinding

Medium
Cooling lubricants, mineral oils, water

Belt filter recommendation
Gravity, compact belt filter

- Biodegradable
- Proven filter fleece for many years



S-PES-B

BICO nonwoven

Fiber composition
100 % polyester

Bonding
Thermal

Filtration type
Depth filtration (3D)

Grammage
40 - 150 g/m², e.g. 40 | 70 | 100 | 130 | 150 g/m²

Machining process
Drilling, turning, milling, grinding, honing, smoothing

Medium
Cooling lubricants, mineral oils, water

Belt filter recommendation
Gravity, inclined bed, compact, vacuum and pressure belt filter

- Highly efficient filter fleece
- Gradient fiber structure (3 layers)



S-PES-PO

Embossed PES nonwoven

Fiber composition
100 % polyester

Bonding
Thermal/mechanical

Filtration type
Surface filtration (2D)

Grammage
20 - 70 g/m², e.g. 30 | 50 | 70 g/m²

Machining process
Drilling, turning, milling, grinding

Medium
Cooling lubricants, mineral oils, water

Belt filter recommendation
Vacuum and pressure belt filter

- Use with precoat
- Very high transverse / longitudinal tensile forces



S-PP

Polypropylene nonwoven

Fiber composition
100 % polypropylene

Bonding
Thermal/mechanical

Filtration type
Surface filtration (2D)

Grammage
20 - 70 g/m², e.g. 20 | 30 | 40 | 50 | 70 g/m²

Machining process
Drilling, turning, milling, grinding

Medium
Cooling lubricants, mineral oils, water, acids, bases

Belt filter recommendation
Vacuum and pressure belt filter

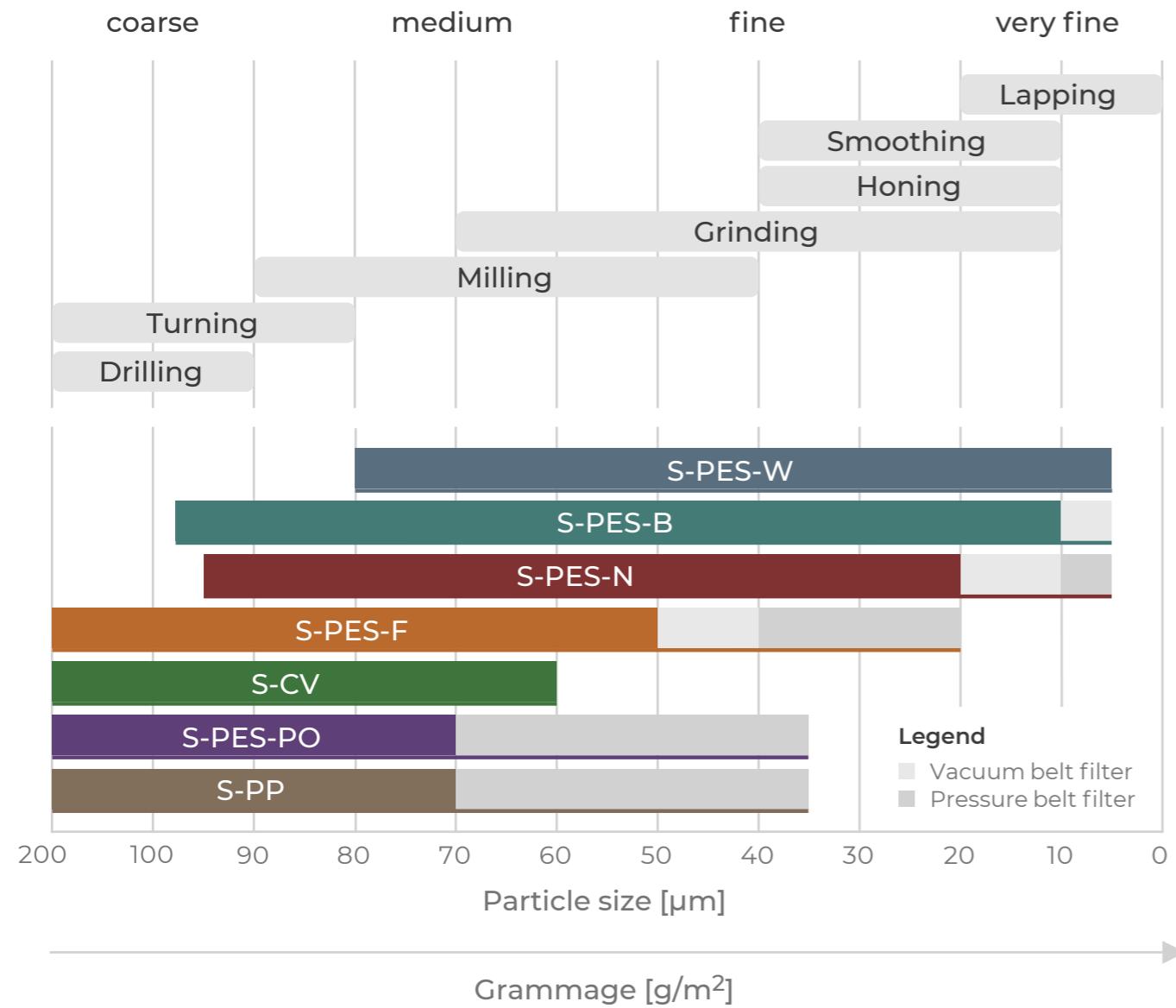
- Good chemical resistance
- Very high transverse / longitudinal tensile forces



The types of fleece shown here are our standard range. We can also offer numerous other nonwovens.

We will be happy to check your needs and answer any other questions you may have about our filter fleeces.

Selection Diagram



Other Influencing Factors

In addition to the processing method, the following factors influence the selection of the filter fleece:



Material

Steel, aluminum, cast iron, carbide, etc.



Medium

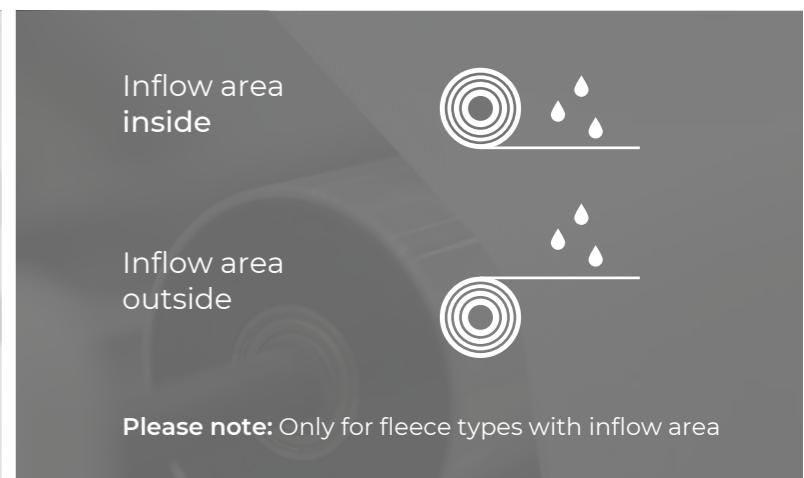
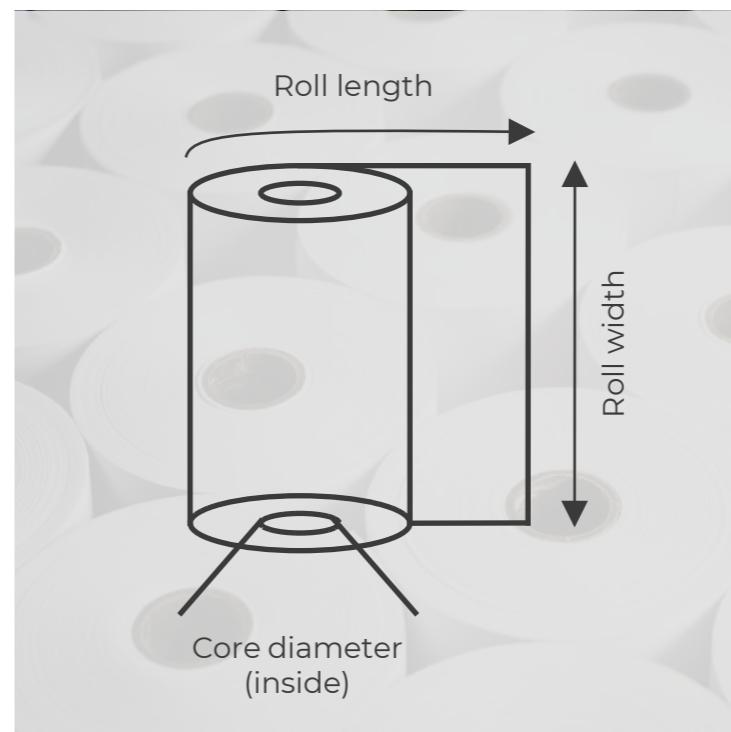
cooling lubricant, oil, water, etc.



Belt filter

Type of belt filter system, filter dimensions, etc.

Production



The **outside diameter** of a roll is often limited by the belt filter system. It depends on both the roll length and the thickness of the nonwoven.

Roll widths

On customer request

Standard widths: e.g. 390 | 400 | 500 | 540 | 700 | 710 | 750 | 800 | 1000 | 1020 mm

Roll lengths

On customer request

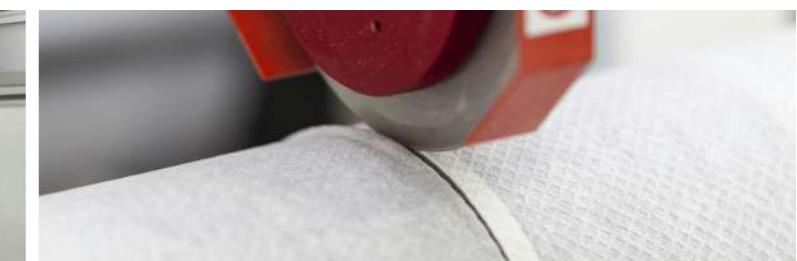
Standard lengths: e.g. 50 | 80 | 100 | 150 | 200 m

Core diameter (inside)

70 | 76 mm

Inflow area

Inside | Outside (for fleece types with inflow area)



Useful Information about Nonwovens

In addition to the raw material, the properties of nonwovens depend to a large extent on the type of **bonding**. Factors such as pore volume, addition of chemical binders/additives or any fiber release into the medium play an important role in filtration. These parameters can be adjusted via the bonding process.



Mechanical

Bonding of loosely arranged fibers by barbed needles or high pressure water jets.



Thermal

Contact point bonding of the thermoplastic polymer fibers through exposure to higher temperatures.



Chemical

Bonding of a fiber structure by applying or spraying chemical binders.

Difference Between 2D and 3D Filter Fleeces

2D

Surface filtration

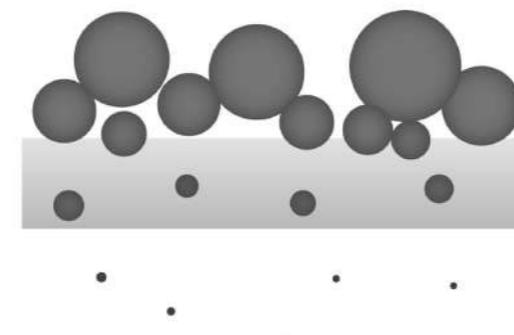
Retention of particles **on top** of the filter medium. Therefore only a limited filter cake formation is possible.



3D

Depth filtration

Retention of particles **inside** the filter medium. Additional filter cake formation, which contributes significantly to the separation efficiency.



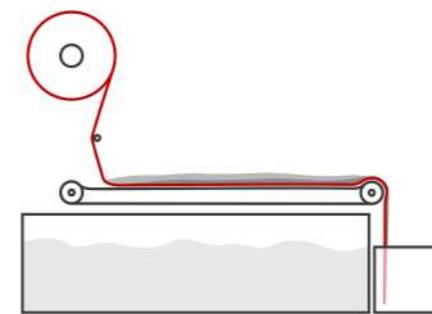
- ✓ Suitable for pre-filtration as well as coarser particles

- ✓ Mostly chemically/thermally bonded fleeces

- ✓ Improved throughput, service life and increased initial separation efficiency

- ✓ Mostly mechanically bonded nonwovens

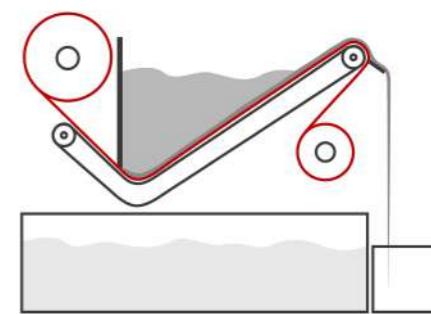
Belt Filter Systems



S-PES-W
S-PES-N
S-PES-B
S-PES-F
S-CV

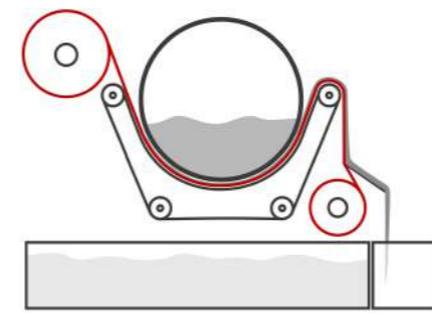
Gravity belt filter

Gravity belt filters are the simplest and cheapest version of industrially used belt filter systems. They are easy and flexible in use.



Inclined bed belt filter

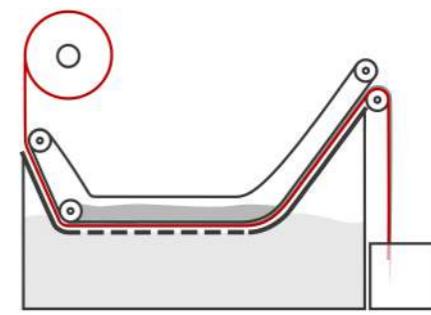
The additional pressure generated by the water column compared to gravity belt filters enables better utilization of the filter fleece.



S-PES-W
S-PES-N
S-PES-B
S-PES-F
S-CV

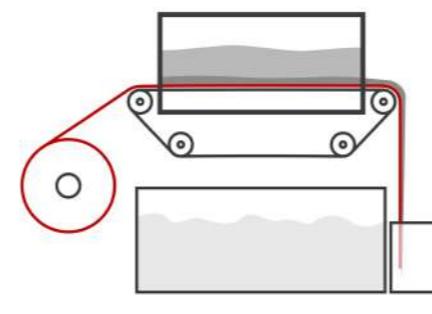
Compact belt filter

The advantage of this belt filter, also known as a drum belt filter, is its compact and space-saving design.



Vacuum belt filter

Vacuum belt filters are often used as central systems. Due to the pressure difference generated, the filter fleece is used extremely well and a good filter cake is obtained.



S-PES-W
S-PES-N
S-PES-B
S-PES-F
S-PES-PO
S-PP

Pressure belt filter

In contrast to the vacuum system shown, the functional principle of the pressure belt filter works with overpressure on the dirt side.

Are you looking for the right filter fleece for your belt filter?

Contact us now.

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Other Products



Cartridge Housings

Available in numerous lengths - made of stainless steel or PP.



Bag filter housings

Available in different sizes - made of stainless steel or polypropylene.

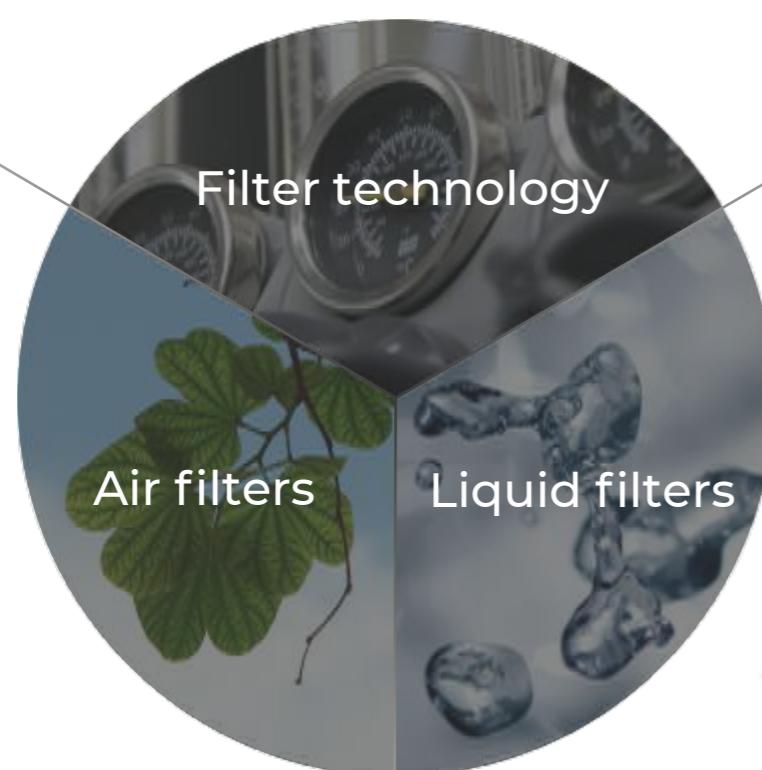
Special constructions

Various filter systems in the field of filter technology.



Pocket filters

Standard and custom sizes with filter classes G2 - F9.



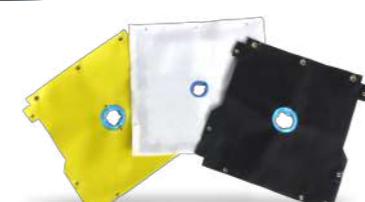
Filter media

As roll goods or cut to size on customer request.



Other air filters

Compact filters, HEPA filters, filter cells & more.



Filter cloths

Individual production in various qualities for chamber filter presses.



Filter cartridges

Large selection of materials and designs.



Become our partner

We are your partner when it comes to industrial filters & filter technology. As a medium-sized family company with many years of experience in the filtration industry, we respond flexibly to your inquiries and offer you competent advice.



Metalworking



Water | Sewage



Food & Beverages



Surface Finishing

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