Conically shrunk: Woven filter tubular made from polyester

vombaur pioneering tech tex

vombaur GmbH & Co. KG

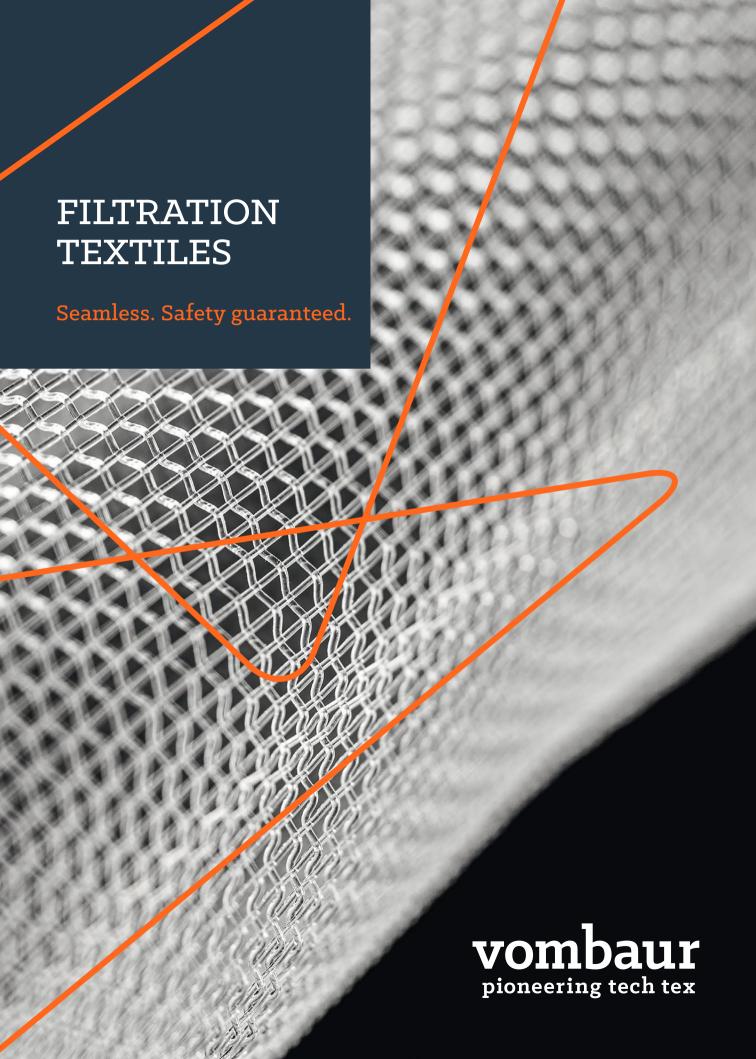
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Certified acc. to



MEMBER OF TEXTATION GROUP



SEAMLESS. SAFETY GUARANTEED.

No seam, uniform properties

The unique machinery at our weaving mill makes this possible: our round weaving machines produce seamless filter tubulars and narrow fabrics for manufacturing filter media.

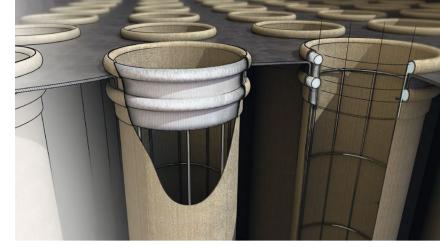
Seamless filter, support and shrink-on sleeves

Our seamless woven tubulars offer identical surface characteristics all around the circumference. Flow rate, resilience, shrinkage behaviour, material thickness – our filter media possess these central properties over the entire surface of the tubular.

The result: uniform filtration and high levels of process assurance.

Safe and precise:
Water filter made of round
woven filter tubular with a
perfectly fitting inner diameter





Reliable fabrication:
Double beaded band for filter bags

Uniform filtration properties all around

VERSA-TILE

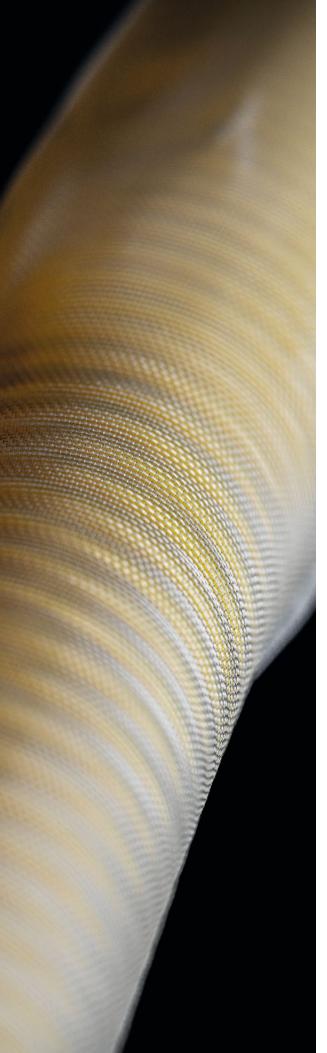
Filtration textiles by vombaur

- > Separation of solids and liquids
- > Uniform filtration properties
- > Low wear
- > Maximum process safety
- Suitable for drinking water
- > Standards-compliant specifications
- > Made of high-strength fibres
- > Stretched
- > Printed
- > Thermoset

Tapes and belts for manufacturing filter media

Reinforcing edges, covering seams, dissipating static charge, stabilising star filters – our narrow textiles fulfil essential tasks in the manufacture of filter media from woven textiles, felts and non-wovens.

Depending on requirements with one selvedge and one crochet edge or with two identical selvedges



PROCESS ASSURED

Safe and durable

From drinking water and oil filters to mining: our seamless woven tubes and narrow textiles for the manufacture of filter media offer numerous advantages for liquid filtration.

Reliable filter textiles for a wide variety of industries:

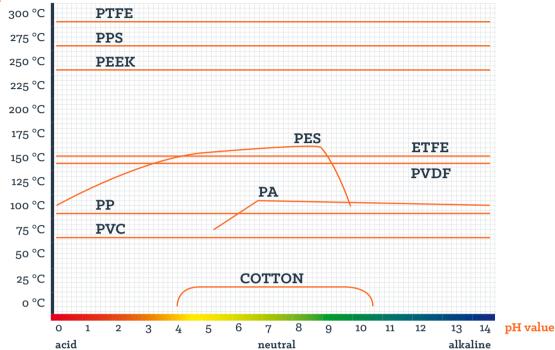
- Water management
- Food industry
- Chemical industry
- > Sewage treatment plants
- Filtration plants and chemical equipment manufacturing
- Oil filters for the chemical and petrochemical industry
- Offshore industry
- Mining
- > Automotive industry
- Marine industry
- > and many more

No seam or weld contours, and thus no undesirable breakage points

Durable and stable: Drainage filters

Temperature and acid resistance





ABUNDANT

High performance materials for high performance products

High performance materials form the basis for our filtration textiles. The mechanical, chemical and thermal requirements of the respective filtration application determine the choice of raw materials and finishing: in collaboration with you, we select the raw material or material combination for your round woven tubulars and manufacturing-ready textiles that best meets the respective requirements.

Filtration textiles made of high-tech fibres

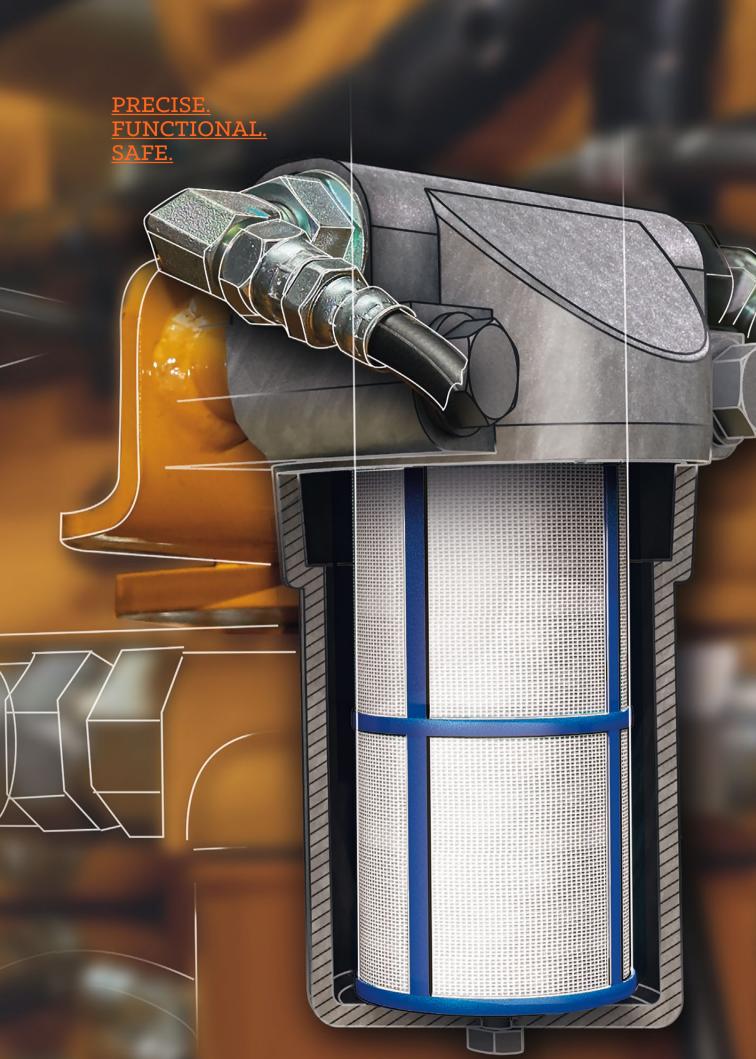
- > Polyester
- > Polyamide
- > Polypropylene
- > PTFE
- > PVDF
- > PEEK
- ____
- > PPS

ETFE

- metal threads
- > and others

The choice of material is based, for example, on the burst pressure, pH value, chemical resistance or operating temperature.

Do you need a filtration textile made of a different material? Please feel free to contact us.





FUNCTIONAL

Depending on what function our filtration textiles are required to fulfil, we weave monofilament, multifilament or spun fibres.

- Monofilament achieves precisely defined mesh sizes. Monofilament fabrics are easy to clean – ideal for frequent backwashing of the cartridges in automatic filter systems.
- > Multifilament enables a filter process with greater filter fineness for filter media.
- Spun thread is characterised by dense fabric structures with high retention capacity. In combination with the filter construction, it ensures a uniform build-up and gentle removal of the filter cake.
 Our round woven tubulars made of staple fibres can be calendered to reduce the permeability even further.

Precise and durable:
Woven tubular for oil filtration
made of monofilament

IN THE WEAVE

The right technology for any filter application

The various filtration requirements demand individually tailor made filtration textiles. Besides the material, the weaving technique also affects how strong the narrow textile is, how drapable it is, and how permeable it is. Depending on the requirements, we rely on needle or shuttle weaving technology in our production.

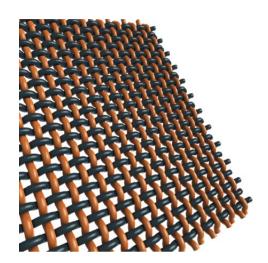
O Needle weaving necessitates a crocheted edge for technical reasons.

The thickening of the crocheted edge can be reduced. To create seamless round woven sleeves without crocheted edges, we rely on shuttle weaving in our production.

Taffeta

Taffeta weave creates a **tight weave** with the highest resistance to displacement.

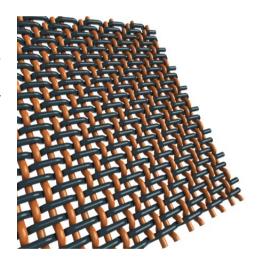
The warp and weft have the highest number of binding points.



Twill

A twill weave enables a **higher thread density** of the material and improves the draping ability.

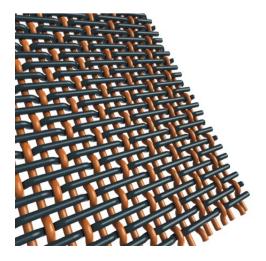
Filter fabrics woven with a twill weave adapt better to the shape of the filter carrier structure.



Satin

A satin weave enables a high thread density in both directions and a particularly **smooth surface**.

The filter cake is easier to remove from the surface.





Multiple layers of support and filter sleeves for oil filters

FABRICATION

Shrunk, printed, in combination with injection moulded, plastic or metal parts – we ensure a perfect composition of your components. We manufacture complex textile combinations for special applications, combining the raw material properties of the different woven tubulars.

A perfect fit, put together for you

Individual dimensions, precise specifications: our materials and manufacturing know-how flows into narrow textiles and textile components which are exactly as you need them.

Of course, we are happy to develop filtration textiles and components for you with individual dimensions and individual specifications.

CUSTOMISED

We are your development partner.

Your requirement drives our product development. Depending on what your filter medium needs to achieve, we select and combine the materials, the woven fabric type, the weaving technique and the finishing.

Filtration textiles to your specifications

MATERIAL	PES, PA, PP, PPS, PVDF, ETFE, PTFE, PEEK, metal thread
FINENESS	Monofilament: 35 μm to 500 μm Multifilament: 48 dtex to 3300 dtex
THREAD TYPE	Monofilament, multifilament, spun
FLAT WIDTH	Standard: up to 350 mm Custom-made products: up to 950 mm
WEAVING TECHNIQUE	Needle or shuttle technology
3D PROFILE AND CHAMBER SYSTEMS	Bead tapes, hollow chamber structures
WEAVE	Taffeta, twill, satin, special weaves
FINISHING	Washed, thermoset (contact heat, hot air or saturated steam), coated, printed, calendered
FABRICATION	Ultrasonic welding, sewing, shrink wrapping, covering plastic or metal carrier, connections with injection moulding
SPECIAL FEATURES	Shuttle weaving technique with two identical selvedges, with identical surface properties around the entire circumference

