

The Next Answer™ in filtration



fiberweb
FILTRATION



Purity where it matters

Fiberweb's filtration products have become the industry standard in swimming pools, face masks, and support layers in air and liquid filtration applications. From spinning to coating, we translate our clients' specifications into finished products that have changed what's possible in filtration.

As a specialist manufacturer of nonwoven fabrics, Fiberweb™ has become a leader in filtration technology. We've developed unique spunbond fabrics, pioneered meltblown processes and created innovative composites. Our REEMAY™ and TYPAR/TEKTON™ brands hold preferred supplier status for numerous applications, and we're constantly working with our industry partners to innovate solutions.

Clarifying the challenge

Industry is demanding rapid innovations, requiring versatile new filtration solutions. Modern filter applications require support materials and drainage layers tailored to a variety of demanding specifications. New advances in materials have to be quickly evaluated and rapidly scaled, often supported in the early stages with short-term, flexible production capabilities.

Fiberweb's reputation has been hard-won over 30 years of dedicated research and development.

What sets us apart is a collaborative approach. We work alongside industry specialists to ensure our products are evolved and refined to meet the needs of specific problems.

Innovating to stay in front

Fiberweb is poised to remain at the vanguard of filtration, with a dedicated Fiberweb Innovation Centre in Old Hickory, TN, USA.

We have designed and built a 35,000 square foot facility equipped with the latest enhancements in extrusion, fibre spinning and web forming technology. The centre houses a highly versatile pilot line producing complex spun melt structures with through air or point bonding. This line can extrude a wide range of polymers including polyolefins, polyester (PET) and poly lactic acid (PLA). It can create bicomponent fibres, meltblown composites and multi-layer functional composites to meet future application demands.

In France, our Filtration Centre of Excellence offers both meltblown pilot and commercial lines, and a range of spunbond technologies. Together they enable the fast turnaround of customer samples and seamless scaling-up to meet production volumes.

In addition, state-of-the-art testing equipment is used to accelerate developments.

Both facilities are designed as flexible assets that make small-batch production an efficient, cost-effective option for product prototypes, clinical research trials and customer processing trials.

We customise solutions using our knowledge of filtration applications and high performance materials technology that goes beyond filament extrusion. Fiberweb's technology platforms for air-through bonding, ultrasonic and full area lamination ensure products have the correct final performance qualities.

Fiberweb's Innovation Centre is where technical expertise meets industry need.



A cleaner world

Imagine a world without filters: no cars, spas or coffee bars, no drinking water – and dust everywhere. Filters are all around us. Many industries rely on filtration processes and Fiberweb produces specialised products to meet all these diverse needs.

Versatility is our strength

Wherever filters are needed, the likelihood is that Fiberweb products will be there. We engineer our products for a variety of applications using functional coatings and antibacterial and fluid management technologies. Processes from spun and melt-blown to carding and lamination ensure a tailored range of solutions.

So in the office, the air you breathe may well be filtered through a system using Fiberweb products. If you go to the gym at lunchtime, Reemay filters will probably be cleaning the pool you swim in.

Fiberweb filters clean everything from the water we drink, to the air we breathe and the drugs we use.

Fiberweb MELTEX™ and TENOMELT™ products have been widely adopted for liquid and air filtration and respiratory protection. We've invested heavily over the last three years, developing our own meltblown processes and substantially increasing production. Our meltblown products are the choice for precise uniformity and high dirt-holding capacity.

Our versatile spunbonded TYPAR/TEKTON and REEMAY media are widely used in the food and beverage industries and pharmaceutical manufacturing.

Innovating to stay in front

When the process demands a stiff, flat, uniform and lightweight material with high permeability, the answer is a supporting material. Fragile polymeric and glass-fibre filters are often built on TYPAR/TEKTON or REEMAY backing materials. They offer stiffness with best-in-class permeability without the need for point bonding. From scrims to fine, thin media, Fiberweb is a leading provider of materials for pleated, wound and other types of filters.

TYPAR/TEKTON and REEMAY media provide high dirt-holding capability and longevity as a pleated filter. They are outstanding when you need clean, low particle-shedding media with excellent uniformity and no binders.



Innovative filtration

As early pioneers in meltblown technology, Fiberweb has been producing consistent, high quality filtration media for 30 years.

Our commitment to investment in both technology and people means that we have meltblown production facilities in Italy, France and the USA. Our R&D and applications technologists are in place to help customers develop their Next Answer to the demanding questions of today and tomorrow.

Fiberweb can create unique gradient filtration media in a range of polymers through lamination or multiple fibre lay-down technology. Our markets include highly regulated life sciences, including blood, water and air filtration. Our media complies with FDA and equivalent EU approvals.

MICROBAN™ antimicrobial protection

In the 1970s, Fiberweb set the benchmark for the pool and spa industry with our cartridge filters. We now have a worldwide exclusive licensing agreement with MICROBAN for pool and spa filtration media, ensuring the strongest MICROBAN antimicrobial protection of any cartridge media.

TYPAR/TEKTON and REEMAY: High strength and durability for filtration support scrims

Engineered to last, TYPAR/TEKTON and REEMAY media withstand the stresses of filtration with high strength both across the width and along the length of the media.

Clean, continuous fibres

The extrusion and bonding of continuous filaments in REEMAY and TYPAR/TEKTON media prevent fibre shedding.

Good coverage for uniform membrane support

Fine REEMAY and TYPAR/TEKTON fibres provide excellent fibre distribution for applications where uniformity is critical.

Area bonded for maximum filtration

REEMAY media are typically recommended for steam sterilisation. TYPAR/TEKTON media are the preferred option for sterilisation using high pH solutions.

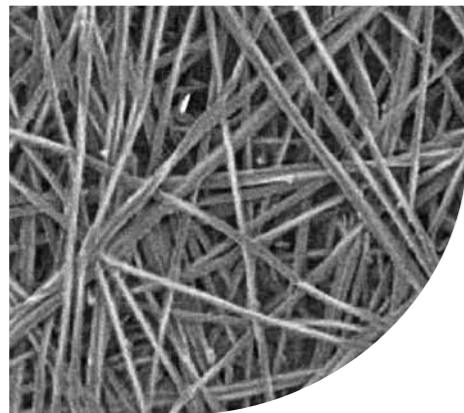
Easy to pleat

REEMAY media are highly pleatable on blade, push-bar or rotary pleaters, forming a crisp, straight fold. Their stiff structure also ensures easy end-capping. TYPAR/TEKTON media pleats well with blade-type pleaters ensuring consistency in liquid cartridge manufacturing.

Consistent performance

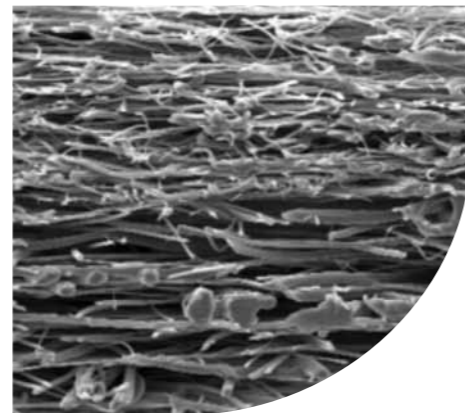
Developing innovative products needs extensive analytical capability. We have capabilities for measuring direct filtration-related characteristics such as pore size, pressure drop, fractional efficiency and dust holding. Our analytical laboratory can support your needs for micro-structure analysis and benchmarking. Contact your Fiberweb consultant for a list of test equipment to support your needs.

The Fiberweb nonwoven range



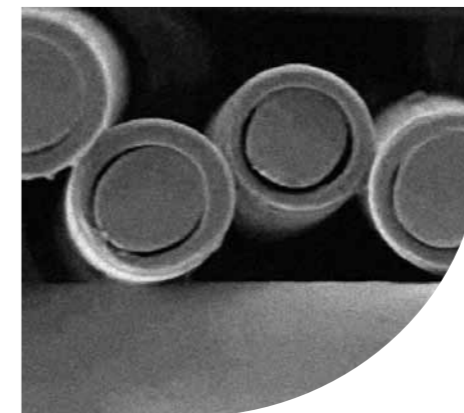
REEMAY Spunbond Polyester

Chosen for superior strength, stiffness, purity and uniformity, REEMAY flat-bond fabrics are used where polyester's inert properties are needed.



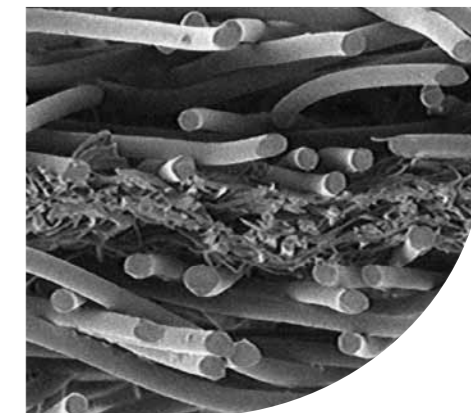
MELTEX™ and TENOMELT™ Meltblown Polypropylene and PBT

Best-in-class filtration performance with highest consistency for direct filtration applications in both air and liquid.



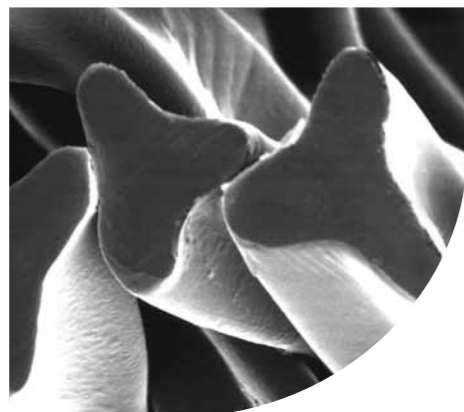
Bicomponents

Fiberweb bicomponent fabrics combine the benefits of two polymers within the web. Unlike other manufacturers, Fiberweb can use a continuous filament spunbond process that creates better strength and durability.



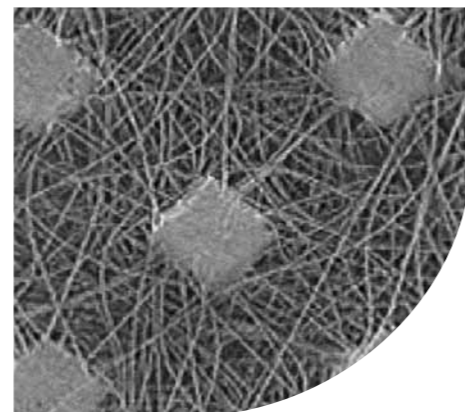
Composites

Using Fiberweb's R&D facilities, customers can develop new nonwovens using novel materials and advance composites.



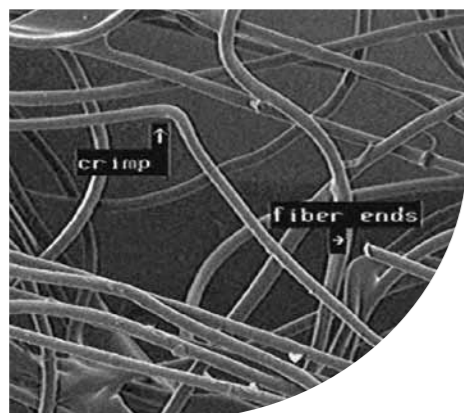
REEMAY Trilobal Fibres

REEMAY with trilobal fibres offer increased stiffness and improved filtration efficiency.



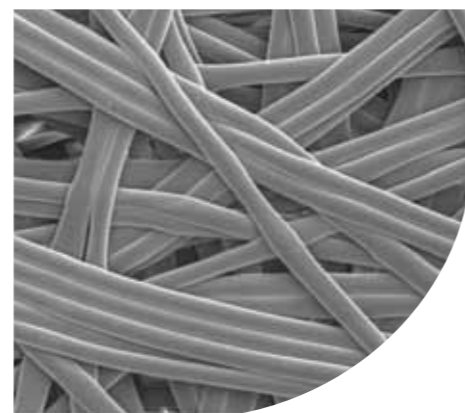
STEX™ Point Bonded Polypropylene

Offer excellent chemical compatibility with best-in-class uniformity.



Carded Nonwoven

Wide range of carded nonwovens with thermal, or air-through bonding capabilities. These customised solutions enable unique performance for many filtration applications.



TYPAR/TEKTON Spunbond Polypropylene

Available as both a supporting/drainage layer as well as direct filtration grades, TYPAR/TEKTON flat-bonded fabrics offer high permeability as well as excellent uniformity and high strength in all directions.

Case study



Blood Filtration

Fiberweb meltblown materials were selected as a filtration media by a leading manufacturer of blood collection bags. The low resistance media allows quicker filtration time and also avoids the need to mechanically pump the blood. This reduces the time required for transfusion and makes the process more pleasant for patients.

The Next Answer

What could high-tech materials do next? That's the question we focus on at Fiberweb. It's what our customers are asking too. So we make it our mission to realise the potential of materials technology. This way, Fiberweb and its customers are always innovating together.

Intelligent application

We're an industrial company. But that doesn't mean we think only in terms of production and polymers. At Fiberweb, we like to think of potential, because the real value in our materials lies in the infinite variety of ways in which they can be applied. And the process for making nonwovens is so flexible that there is always room for more ideas. We call this "intelligent application". And it's led to some truly remarkable materials.

Materials that make the world better

We've made flood defences that can be easily transported and rapidly installed where they're needed. Stretchable crop fleeces up to 1.5km long. Waterproof, breathable material that cocoons and protects buildings.

Our nonwovens have changed the world and become part of everyday life. Since it was founded over 30 years ago, Fiberweb has been at the forefront of innovations like these, and we have grown to become a global force in materials. Our nonwovens are used in a wide range of applications across seven industry sectors: filtration, construction, technical nonwovens, medical, building, agriculture and graphic arts.

Finding the Next Answer

We're investing heavily to find new applications for nonwovens. We have new, multi-million dollar innovation centres in the US and UK. They feature pilot lines and analytical labs that provide solutions as and when our customers demand them. At the same time, these facilities give our scientists the tools they need to carry out their own exploration and pioneer new technologies.

Eight global manufacturing bases in six countries

Over 30 years experience in the materials industry

1200 employees

R&D centres in Europe and the US

A leader in material technology application

By intelligently applying our high-performance fibre technology, we are helping industry solve its most complex material challenges, and providing our customers with the answers they will need tomorrow.

fiberweb

THE NEXT ANSWER

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