

High-performance solutions guarantee clean results

TWE Group nonwovens for liquid filtration have opened the way for new ways of thinking. They filter liquids and catch the solid matter. TWE Group Fluidweb nonwovens have set high standards in liquid filtration. In industrial processes the filter media are required to have universal and economic properties which can be adapted to suit the various types of filter systems.

Our nonwovens can be found in an extensive range of different filter units including gravity, hydrostatic, vacuum and pressure belt filters. They are used

predominantly in the metal working/cutting industry order to clean operating materials/ lubricants such as coolants, cutting and rolling oils.

New types of filtering media and deep-filter processes enable a considerable reduction due to lower wear and tear, longer operating times and improved preparation possibilities.

We offer a great variety of fibre gradients in order to adjust our products to your individual needs – from coarse to fine.



Pure safety: TWE's contribution to safe production processes

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Discover our sustainable solutions with our product line rePEaT®

rePEaT® - CIRCULAR

rePEaT Circular refers to products which are manufactured from an increased amount of recycled fibers or to the return of 100% polyester-based waste from our customers.

The waste is processed into granules, from which polyester fibers are created again for the production of our nonwovens. This allows us to offer a complete cradle-to-cradle solution.



Discover our new sustainable product line rePEaT

The possible uses for recycled polyester vary depending on the production technology.

- VIRGIN FIBERS
- rePEaT FIBERS



rePEaT® - SOCIAL

Our rePEaT Social products are made from plastic which has been collected by people in developing countries, and who can earn a living in this way.

By doing so we are supporting plasticbank®, which pays collectors a premium for the materials they collect. This enables them to cover their basic needs such as food, school fees and health insurance. The plastic collected consists mainly of PET bottles.

It is reintroduced into the global supply chain under the name Social Plastic® in the form of PET flakes. Once processed into polyester staple

fibers they are used as feedstock for the production of our mechanically or thermally bonded nonwovens.



Processed social plastic in TWE products since 2021:



Number of recycled PET bottles in TWE products:



Our production processes

ParaFil®

- Spunbonded polyester/polypropylene nonwoven
- good strength in both directions
- 20-150 g/m²

ParaPrint®

- chemically bonded viscose fibres
- high pore volumes, several degrees of fineness
- 20-60 g/m

ParaMoll®

- thermally bonded and needled polyester nonwoven
- 3-dimensional deep filter medium
- 35-300 g/m

ParaJet®

- thermally bonded and hydroentangled polyester nonwoven
- latest generation of 3-dimensional deep filter medium
- 50-150 g/m

Your benefits:

- maintain clarity of the coolant
- increased lifetime of coolant
- extended tool life
- enhanced surface finish
- improved end product quality
- reduction of downtime



Efficient optimization of the filter cake structure

Depending on the type of filter unit and required filter fineness we can always offer the right filter products to meet our customers' expectations:

For a coarse filtration, where no high filter cake structure is necessary the common two-dimensional nonwovens, such as ParaFil and ParaPrint are very efficient.

In order to filter finer particles more efficiently, a nonwoven is required, which allows a filter cake construction that is as high as possible because the structure of the filter cake helps to filter particularly fine particles.

With our three-dimensional filtration nonwovens such as ParaMoll and especially ParaJet, the filter cake already builds up inside the nonwoven and allows a very high filter cake on the surface. The higher the filter cake, the cleaner the result.

The increasingly improved quality in today's production places new demands on the entire process and requires an even finer filtration. Therefore, our engineers have developed the TWE 3D filter nonwoven and our latest development ParaJet evo now allows a deep filtration for the purest results.

