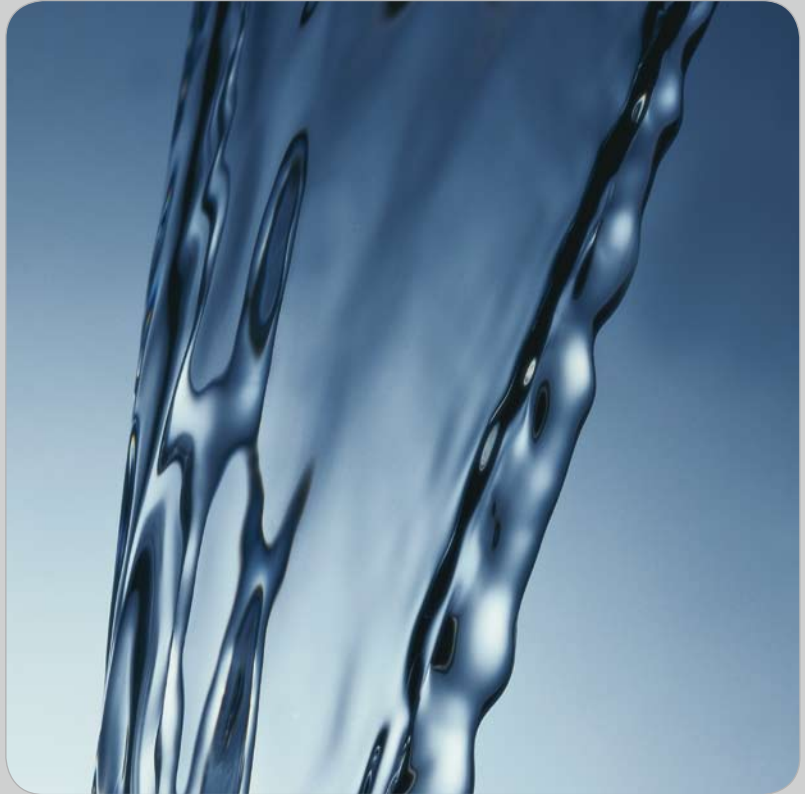




cooltexx



clean

**Nonwovens for filtering
coolants and lubricants**

viledon[®]



Always the right choice

In the field of coolant and lubricant filtration, Freudenberg provides the right type of filter medium for every system and every process, in the shape of cooltexx. Depending on the application involved, different kinds of belt filters are used:

- gravity belt filters
- pressure belt filters
- vacuum belt filters

Based on long years of experience with different systems, a series of standard nonwoven types have emerged, whose characteristics have enabled them to produce excellent results in daily use when filtering emulsions, oils or synthetic liquids.

Products plus service equals cooltexx

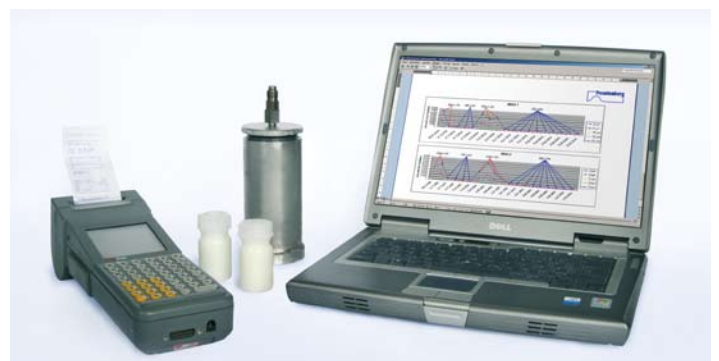
cooltexx stands for top-quality filtration media and superlative service support. As the world's largest and most versatile producer of nonwovens, Freudenberg possesses the comprehensive expertise and capabilities required for customized, multi-product solutions.

Our multiplicity of diverse products: we offer an extensive product portfolio, individually matched to the specific requirements of the filter systems, processes and other situational conditions involved. The advantages are persuasive:

- almost unlimited applications
- long useful lifetimes coupled with optimum filtering efficiency
- extensive chemical resistance properties
- high dependability married to minimized operating costs
- innovative development ideas
- availability in all the roll versions required

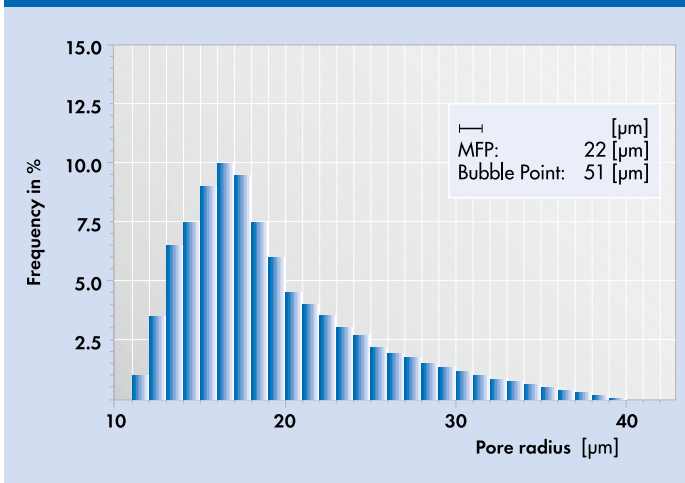
Our service support capabilities: we work with our customers to optimize their production processes, to increase their efficiency levels, and to cut their costs – with our field-proven applications–engineering consultancy, our on-site metrological service, and a feasibility study. For example, we perform particle measuring routines, draw up status descriptions for your systems, and give product recommendations.

cooltexx means: enhanced cost-effectiveness and improved cost-efficiency for your processes, thanks to customized, all-inclusive job packages from a quality vendor.



On-site analysis: particle distribution in the process fluid

Pore size distribution of a filter medium using a Coulter porometer



Developed for the toughest of jobs

cooltexx nonwovens for liquid filtration are produced using both wet-laid and spunbond methods, and feature an exceptionally uniform fleece pattern over their entire width and length. The nonwovens are made of cellulose, polypropylene or polyester fibers.

- The filter cake is built up swiftly, thus creating an optimum filtering effect.
- The filter cake can be easily detached.
- Depending on the type involved, the high values for mechanical strength guarantee reliable functioning even in wet condition.

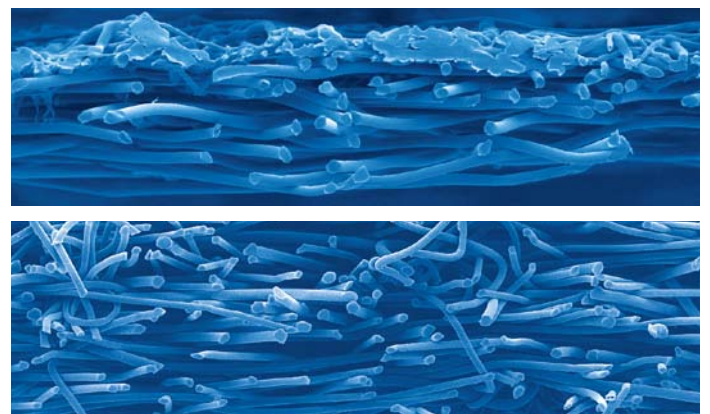
Their resistance to chemicals satisfies the most rigorous requirements. Typical applications and processes are found in aluminum rolling mills, in the metalworking industry and in the automotive industry.

Innovations from Freudenberg

The increased sensitivity of modern day production processes to fluctuations in filtrate quality, result in higher reject rates and reduced productivity. In order to meet the increasingly stringent requirements for the filter media's arrestance capabilities and useful lifetimes, Freudenberg has developed innovative depth-loading filter media on the basis of different production processes. These innovations include: multi-layer spunbonded nonwovens based on polyester and polypropylene, plus dry-laid nonwovens in different fiber compositions.

The depth-loading filter media developed specifically for the filtration of cooling lubricants excel in terms of their outstanding characteristics:

- excellent arrestance rates
- long useful lifetimes
- low disposal costs



SEM pictures of high-performance filter media

You will find further product information on nonwovens for liquid filtration on our website at

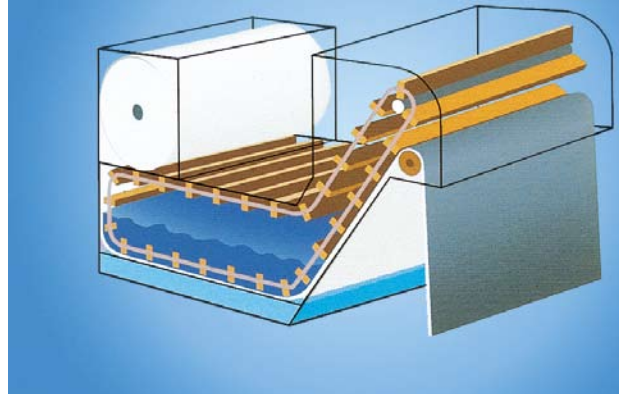
www.viledon-filter.com

Categories of use and typical applications

cooltexx nonwovens are specifically matched to the following process fluids:

- emulsions based on mineral oil
- emulsions based on semi- or fully synthetic oils
- rolling, honing, grinding and cutting oils
- washing solutions

Vacuum filter



Properly filtered, profitably processed

In the metalworking industry, proper treatment for cooling lubricants is of paramount financial importance. Efficient arrestance of the particles encountered is crucial for consistently high surface quality of the products involved, for long useful lifetimes of the tools employed, and for optimized quality and durability of the cooling lubricants concerned. Thanks to cooltexx nonwovens, all process parameters can be kept at a consistently high level for a minimized operational outlay.

We will be pleased to offer you a feasibility study based on a corresponding metrological as-is analysis, and provide a recommendation for optimizing your system.

All's well that's cleaned well

Flawless, continuous fine and ultra-fine filtration in the non-ferrous-metal rolling-mill sector, particularly in aluminum rolling mills, guarantees a high surface quality of the rolled strips, foils and material laminates involved. For this purpose, the cooling lubricants are optimally treated in rolling oil recirculation systems featuring Viledon filter media. By using special filter systems and appropriate filter media, solid particles of a size down to 5 µm can be arrested.



Versatility at a glance

- Drilling, turning, milling
- Ultra-fine, profile, internal and external grinding
- Honing, lapping
- Hot- and cold-rolling, and wire-drawing of aluminum and copper
- Surface treatment, like galvanizing, tempering and phosphating
- Washing and cleaning baths

Making sure the bath does in fact get things clean

Special nonwovens are required for the filtration of washing, coagulating and phosphating baths: in the recirculation processes for surface finishing or cleaning of individual components and finished products or for removing superfluous foreign bodies from a surface coating process. For all these applications, Freudenberg develops the appropriate filter, matched to the particular chemical conditions being applied.

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