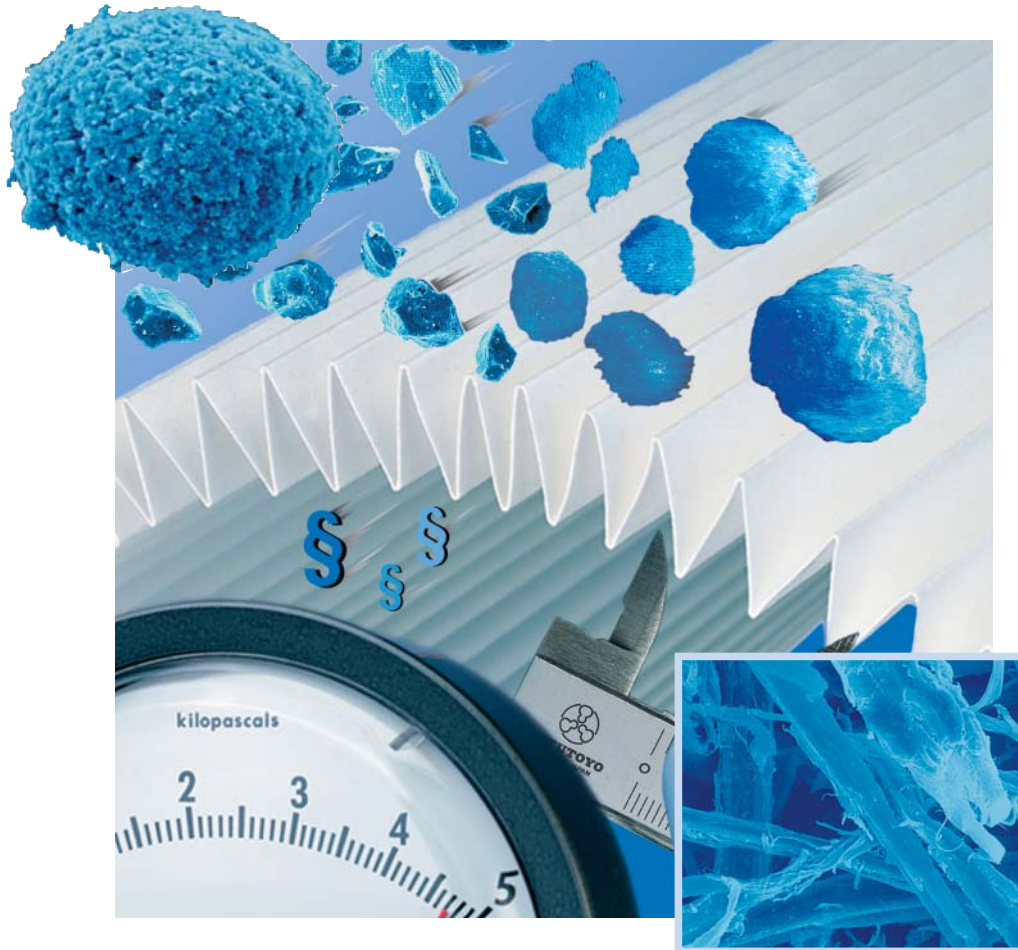


Viledon – An all-round range of filters for customized dust removal concepts

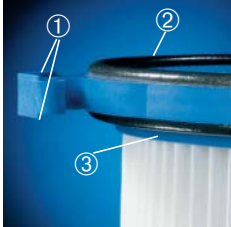
viledon®



Freudenberg
Filtration Technologies



Viledon filter cartridges – high-performance yet space-saving, designed for durable longevity



Twist & Fix flange with spacer ribs ① and seals ② on both sides plus a centering collar ③

Twist & Fix filter cartridges

- ▶ Three or four-hole cartridge flange made of glass-fiber-reinforced polyamide.
- ▶ Fast, user-friendly installation on both the raw and clean-gas sides, featuring foamed-in seals on both sides.
- ▶ Optimum seal against the system's raw-gas compartment and reliable installation thanks to spacer ribs (patented) on both sides.
- ▶ Perfect fit and protection for the filter medium using a centering collar.
- ▶ Available in four nominal diameters with standard heights of 600 up to 1500 mm.
- ◆ **The high-performance solution for difficult dust removal applications!**



Snap & Fix flange

Snap & Fix filter cartridges

- ▶ The cartridge family that snaps in „properly“ when fitted, providing a perfect axial seal without any other aids like metal sleeves or spring washers.
- ▶ Suitable for upgrading old bag filter systems or for new installations
- ▶ Fitted on the clean-gas side without any laborious fastening - just press into place, and the patented snap hooks will engage.
- ▶ Can be removed in seconds, using a snapping lever.
- ◆ **Ideal for simple, inexpensive installation in old bag filter or new cartridge filter systems.**



Drainage nonwoven, SEM photo

DIN standard filter cartridges

- ▶ Field-proven drainage-nonwoven technology or patented pleat corrugation – FE 2507 - sine – ensures maximized extraction performance coupled with low filter resistance.
- ▶ BGIA-tested, synthetic filter media with significantly higher quality consistency than conventional spunbonded nonwovens ensure that the residual dust content levels are complied with even under the alternating stress of compressed-air cleaning.
- ▶ Integrated covers, bases and support cages.
- ◆ **Ideal for simple retrofit and improvement jobs on most commonly used dust removal equipment.**



FE 2507 - sine



Viledon filter plates, filter bags, filter media – whatever your application, we've got what you need

Filter plates

- ▶ Available in four different geometries with standard heights of 600, 1000, 1200 mm.
- ▶ Upon request with antistatic finish.
- ▶ Long useful lifetimes coupled with low maintenance and operating costs.
- ◆ **Ideal for every application - particularly when space is at a premium.**

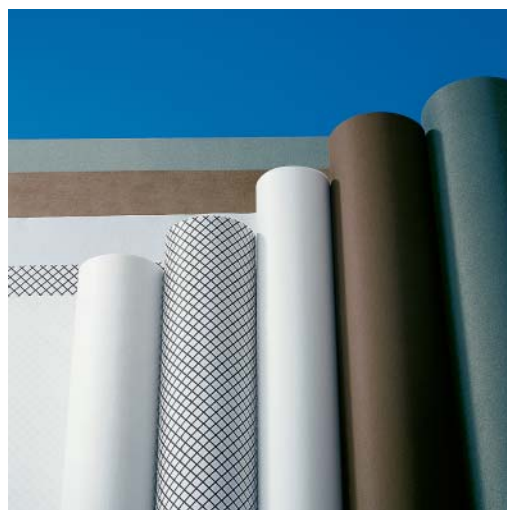


SineBag Filter Bags

- ▶ Innovative, pre-assembled filter bags, in all commonly used heights and diameters, with a choice of top and bottom section variants for effective abrasion protection.
- ▶ Patented, polyester nonwovens with a smooth surface and sinusoidal corrugation, on which no fine dust can gather, assure consistently high filtering performance from the SineBags.
- ▶ Optimized handling for cleaning and replacement.
- ◆ **With outstanding emission values, ideal for the efficacious operation and long-term cost-efficiency of your system.**

Filter media/roll goods for dust removal systems

- ▶ High-performance fabrics for you to convert in-house.
- ▶ A wide range of different qualities for all applications.
- ▶ Unique characteristics from the use of patented production processes.
- ◆ **Ideal for an inexpensive and individualized solution to your jobs, utilizing top-quality filter media.**



Accessories are essential: support cages, deflectors, solenoid valves, sequencers, and lots more

Accessories

- ▶ Easy disposal of spent filter cartridges thanks to re-usable accessory parts like support cages.
- ▶ Improved cleaning intensity and reduced compressed air consumption thanks to optimized displacement inserts and pulse-jet deflectors.
- ▶ Sophisticated rotary nozzles in different lengths for intensive individual cleaning of DIN standard filter cartridges.
- ◆ **Ideal for stabilizing your filter cartridges and for optimizing the cleaning effect.**



Pneumatic components

- ▶ Corrosion-proofed solenoid valves, optimized for maximum air throughput with ultra-short pulses.
- ▶ Integral valves, threaded and compression style valves with integrated solenoids or remote pilot control.
- ▶ Complete cleaning units comprising compressed-air tank, valves and blow pipes.
- ▶ Filter wall bulk head connectors in various designs and sizes for simple mounting of your cleaning unit.
- ◆ **Ideal for effective and individualized cleaning of your filter elements.**

Cleaning control systems

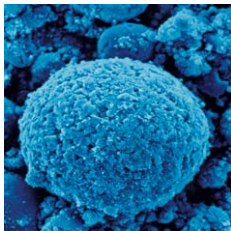
- ▶ Differential-pressure and time-controlled cleaning sequencer systems for maximally stringent requirements.
- ▶ Simple step through programming of either analog or digital display options.
- ▶ Different sizes to match your valve requirements.
- ◆ **Ideal for exploiting the full potential of your filter inserts.**



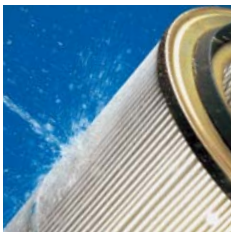
There's a lot to be said for Viledon filter elements



Freudenberg - the origin of nonwovens



We take a long hard look at your dust!



... nor does a „good thorough wash“ do them any harm



Filter media – tried and tested performance

Unlimited applications

Wherever large quantities of dust are generated, there's a potential workplace for Viledon dust removal elements. Four main categories of application give the filters a chance to show what they can do:

- **Environmental protection:** for compliance with statutory emission values for air.
- **Workplace safety:** compliance with threshold limit values for clean-air recovery in workrooms
- **Product recovery:** recovery of powder-form products in the food industry or of dusts in powder-coating installations
- **System protection:** intake air filtration for machines and systems

Customized dust removal concepts

As it's the nucleus of every dust removal system, choosing the right filter or filter combination is crucially important. Specialized applications and dust situations demand the full capabilities of Viledon filter elements. In order to meet these requirements, the service package includes an analysis of existing dust removal problems and processes. Specifically developed filter media, plus products which can be varied in terms of their structural shape (patented design details), overall height, nominal diameter, pleat geometry, and what's more, re-usable accessories offer plenty of scope for solving almost every collection problem.

In our laboratories, we can take a long hard look at the dust involved, with particle measurements of all kinds, determination of dust densities and bulk weights, plus dust analyses using a scanning electron microscope. In addition, we offer an on-the-spot measuring service in customers' installations. Results from all these analyses are incorporated into our know-how and our consulting quality. This means you as the customer receive a dust removal package individualized for both technical and commercial satisfaction.

Freudenberg - the origin of nonwovens

As the world's biggest producer of nonwovens, with over 40 years of experience in filtering gases, we are able to make filter media which meet even the most stringent of quality requirements while providing maximized performance. For Viledon dust removal elements, only thermally bonded nonwovens manufactured in-house from polyester or polypropylene fibers are used. In addition, the media can be given an antistatic and/or PTFE-membrane finish.

Exhaustive testing

Viledon filter media are suitable for collecting health-hazardous dusts in conformity with the relevant BGIA certificates. Antistatic filter media are manufactured using a patented screen-printing process and are DMT-tested. For collecting explosive dusts, the remaining cartridges/plate elements are also given an electrically conductive finish to complement the actual filter medium. DMT test reports and a certificate on food-compatibility are on file.

Long lifetimes thanks to cleaning or washing

Viledon filter elements can be cleaned using the familiar mechanical and pneumatic procedures - and washed as well. By regularly washing off the dust cake (a customary procedure with sticky dusts, for example), the filter medium can be regenerated and the filter element's lifetime significantly extended.

Quality signed, sealed and secured

Our management system has certification to ISO 9001 and ISO 14001. We thus meet the strictest of quality specifications, and take protection of the natural environment fully on board in all our processes and operations.

Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case.

Viledon® is a registered and protected trademark of Carl Freudenberg.



and ENVIRONMENTAL
MANAGEMENT SYSTEM
to DIN EN ISO 14001
Reg. No. 1420
Freudenberg
Filtration Technologies
Weinheim/Germany

Viledon – we take the dust out of your world - worldwide



Argentina

Freudenberg Telas sin Tejer S.A.

Australia

Freudenberg Pty. Ltd.

Austria

FILCOM Umwelttechnologie

Belgium/Luxembourg

Airwatec SA.

Brazil

Freudenberg Não-Tecidos Ltda. & Cia

China

Freudenberg & Vilene Nonwovens
(Suzhou) Co. Ltd.

Czech and Slovak Republics

Freudenberg Vilene s.r.o.

Finland

Freudenberg Filtration Technologies
Finland OY

France

Freudenberg Filtration Technologies SAS

Hungary

FOB-Filter

India

Freudenberg Filtration Technologies
India Pvt. Ltd.

Italy

Freudenberg S.p.A.

Japan

Japan Vilene Co. Ltd.

Korea

Korea Vilene Co. Ltd.

Malaysia

Freudenberg Filtration Technologies KG
Representative Office Malaysia

Netherlands

Merrem & la Porte B.V.

Poland

KE-Burgmann Poland Spółka z.o.o.

Russia + Belorussia

VileRus Ltd.

Scandinavia

Filtac AB

South Africa

Freudenberg Filtration Technologies
(Pty.) Ltd.

Spain

Freudenberg España S.A.

Taiwan

Freudenberg & Vilene Nonwovens Co. Ltd.

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