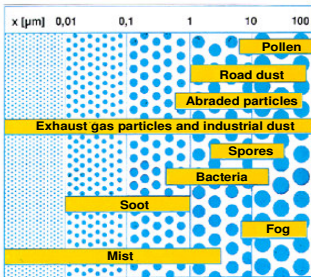


Viledon Air Filters We Make Air Clean



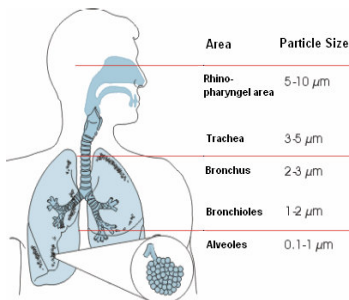
The Air

Ambient air contains a variety of particles with different chemistry, particle sizes and concentrations. Particles can be of natural and anthropogenic origin. Examples are soil or sand particles, spores and pollen on the one hand, or soot, smog, fly ash on the other hand. In areas of high industrial activity, particles are usually smaller than in natural environments and their concentrations are higher. Particle sizes and concentrations can vary from 0.01 to 100 μm and 0.01 to 500 mg/m^3 , respectively.



The Damage

Dust particles can cause damages to products, equipment in industrial processes and human beings: Dust may be responsible for short-circuits in substations, for the fouling and erosion of blades in air compressors and gas turbines, for the deterioration of surface quality in automotive painting applications, for lost production batches in food and pharmaceutical industry and for hygienic problems in office buildings and hospitals. High-quality air filtration avoids such damages or reduces them to a minimum.



Quality

Through more than 50 years of experience in air filtration, Freudenberg has established its brand name Viledon as a synonym for innovation, quality and reliability. The latest cornerstone was achieving the Eurovent certification for air filters which only a few filter manufacturers have obtained world wide. The Eurovent certificate gives the customer the peace-of-mind that the quality the manufacturer is promising is the quality the customer is getting: Independently tested and verified.

EUROVENT
CERTIFIED PERFORMANCE



AIR FILTERS
CLASS F5-F9

Energy Efficiency

Soaring energy prices and shortfall of supply make it more and more important to save energy wherever possible. Using air filters with a low average pressure drop, reduces the energy consumption of your fans provided that variable-speed fans are used. In order to make the choice of filters easy Freudenberg has introduced an energy-efficiency rating of air filter in addition to the existing particle removal efficiency. Ask us for more information and check the energy-efficiency class on the data sheets of our filters.



The Products

Filter Mats

Viledon filter mats are made of high-performance nonwovens. The media are progressive in structure, i.e. the density of the fibre layers increases towards the clean air side, thus achieving optimised defined filter performance and dust holding capacity at a low pressure drop. All filter mats are manufactured using an eco-friendly recipe. They are moisture-resistant up to 100% relative humidity and thermally stable up to 100°C. Available in rolls or cut to size in filter classes G2 to F6.

Panel Filters

Freudenberg Filtration Technologies offers a range of panel filters. They can be used as a pre-filter for a second filtration stage or as a main filter where coarse-dust filtration is sufficient. The filter media is foamed into the frame thus ensuring that the filter is leak-free and robust. Both, self-supported and wire mesh supported versions are available. All components are non-corrosive which makes the filter 100% moisture-resistant and fully washable.

Pocket Filters

Viledon pocket filters are designed for toughest environmental conditions due to their mechanical stability and high dust holding capacity/long life time. The features are: leak-free welded filter pockets foam-sealed into the front frame, progressive structure of the filter media, inherent rigidity of the filter pockets and aerodynamic design. They are non-corroding, moisture-resistant up to 100% relative humidity, thermally stable up to 70°C. Viledon pocket filters are available in the filter classes G3 to F9.

Cassette Filters

The high dust loading capacity and stability of the MaxiPleat filters ensure long service lifetimes and maximum operational reliability. Using a special pleating and embossing technology filter medium keeps itself spaced thus allowing for an aerodynamic pleat geometry and the 250 mm pleat depth result in optimised flow conditions with low pressure drops even at high air flows. The filter elements are lightweight, corrosion-free and moisture-resistant up to 100% rel. humidity and come in the filter classes F6 to H12

HEPA Filters

Viledon HEPA and ULPA filters are available in filter classes H10 to U17. From Filter Class H13, quality is assured by individual testing of each filter using an oil-thread or a leading-edge scan test rig. The filter elements can be manufactured in one piece in widths of up to 1220 mm and lengths of up to 1830 mm, with pleat depths of up to 280 mm. They are available in numerous different versions, corrosion-proof, easy to install, and eco-compatible to dispose of.

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