Press Release

Highest efficiency against smoke and finest dusts

Viledon® sinTexx Plus: Freudenberg corrugation with nanofiber lining makes the difference

Weinheim, April 9, 2019: The efficient separation of dusts in industrial production protects people and machines, optimizes work processes and reduces energy consumption, maintenance and operating costs. Viledon® sinTexx Plus polyester filter cartridges with Freudenberg corrugation and nanofiber lining offer optimum performance in the filtration of the finest dusts and smoke that are difficult to handle. They have been proven to outperform filtration solutions made from conventional filter media or ePTFE membranes.

Freudenberg Filtration Technologies developed Viledon® sinTexx Plus filter cartridges specifically for removing dust from fine smoke generated by coating, welding and cutting processes, such as laser or plasma cutting. Their certified separation efficiency is at least 99.95 percent. This means that workplace safety thresholds can be reliably adhered to – right from the first second, without dust cakes forming on the filter surface.

There is no requirement for precoating to further improve dedusting and pressure behavior. Under a scanning electron microscope, the polyester medium with Freudenberg corrugation and a nanofiber lining shows a uniform close-meshed structure. Flow resistance and pressure drop remain permanently low. In field tests and customer applications, the Freudenberg corrugation with nanofiber lining has proved to be extremely efficient and easy to maintain. This results in low power and compressed air consumption combined with a long service life.

Explosion protection

Freudenberg Filtration Technologies has also developed Viledon® sinTexx Plus filter cartridges with antistatic properties for the separation of explosive
dusts. These filters are suitable for use in all ATEX zones. For this purpose, the Freudenberg filter specialists use their proven and patented Viledon® halftone printing technology. Easily recognizable by its black fixing strap, the explosion protection version of the Viledon® sinTexx Plus filter cartridge is fully conductive. To ensure maximum safety, each filter cartridge is individually checked.

At POWTECH 2019 in Nuremberg, Freudenberg Filtration Technologies will be presenting the Viledon® sinTexx Plus filter cartridges to trade visitors at the VDMA special show in Hall 2, Booth 121.

Image 1:

![Image 1](image1.png)

Caption: Viledon® sinTexx Plus filter cartridge with Freudenberg corrugation and nanofiber lining.
Source: Freudenberg Filtration Technologies

Image 2:

![Image 2](image2.png)

Caption: Pleatable polyester filter medium with sinusoidal cross-section and microfibers.
Source: Freudenberg Filtration Technologies
**Image 3:**

Antistatic filter medium, finished with a patented raster print.

**Source:** Freudenberg Filtration Technologies

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**About Freudenberg Filtration Technologies**

As a global technology leader in air and liquid filtration, Freudenberg Filtration Technologies develops and produces high-performance, energy-efficient filtration solutions which improve the efficiency of industrial processes, conserve resources, protect people and the environment and thus enhance the quality of life. With its Viledon® and micronAir® global brands, Freudenberg Filtration Technologies offers customers innovative filter elements and systems for the energy and resources, hygiene and health, automobile and transport, production and building technology sectors, and for highly-specialized applications. In 2017, Freudenberg Filtration Technologies generated sales of around €423 million and employed almost 2,100 people. [www.freudenberg-filter.com](http://www.freudenberg-filter.com)

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**About the Freudenberg Group**

Freudenberg is a global technology group that strengthens its customers and society long-term through forward-looking innovations. Together with its partners, customers and research institutions, the Freudenberg Group develops leading-edge technologies and excellent products and services for more than 30 markets and for thousands of applications: seals, vibration control components, nonwovens, filters, specialty chemicals, medical products, IT services and the most modern cleaning products. Strength of innovation, strong customer orientation, diversity, and team spirit are the cornerstones of the Group. The 169-year-old company holds strong to its core values: a commitment to excellence, reliability and pro-active, responsible action. In 2017, the Freudenberg Group employed approximately 48,000 people in some 60 countries worldwide and generated sales of more than €9.3 billion. For more information, please visit [www.freudenberg.com](http://www.freudenberg.com)