

FILTER MEDIUM FE 2507-SINUS / FE 2516-SINUS

FOR VILEDON DUST REMOVAL ELEMENTS

viledon®



Freudenberg – the origin of filter media

Pleatable polyester filter medium with sinusoidal cross-section and microfibers sets new standards for the performance of pleated dust removal elements.

Lots of pluses for you with “sinus”!

- **Savings of up to 35% of energy costs** are possible during operation. The Freudenberg corrugation significantly downsizes the pressure drop by prevention of a pleat collapse during operation. Thanks to its full-area thermal bonding the material exhibits a significantly smoother and more homogeneous surface than linearly

embossed spunbonded nonwovens. An advantage with beneficial effects on the cleaning behavior.

- **Profit from extended lifetimes and reduced maintenance costs.** The Freudenberg pleat stabilization concept is thermally stable up to 90 °C, and remains stable even under alternating loads of filtration and cleaning phases.
- **Increase the air throughput** of your filters, since cartridges fitted with FE 2507-sinus offer a larger effective filter area.
- Measurements of fractional collection efficiencies prove: FE 2507-sinus meets the requirements of increas-

ingly stringent dust emission guidelines. This is particularly true when it comes to arresting particles of <2.5 µm, since the fiber structure is significantly more homogeneous than spunbonded nonwovens.

- In the shape of filter medium FE 2516-sinus we have an antistatic variant with Freudenberg corrugation for which a DEKRA test report is on file.

NONWOVEN DATA		FE 2507-SINUS	FE 2516-SINUS
Weight	g/m ²	240	250
Material thickness approx.	mm	0.45	
Maximum tensile strength md	N/5 cm	300/600	
Maximum elongation amd	%	25/40	
TECHNICAL FILTER DATA		FE 2507-SINUS	FE 2516-SINUS
Air-permeability at 200 Pa	m ³ /m ² /h	300	
Dust class to DIN EN 60 335-2-69, Annex AA	mm	M	
Silica efficiency according to EN 60335-2-69, Annex AA	%	>99.9	>99.9



Reg. No. 001420 QM/UM

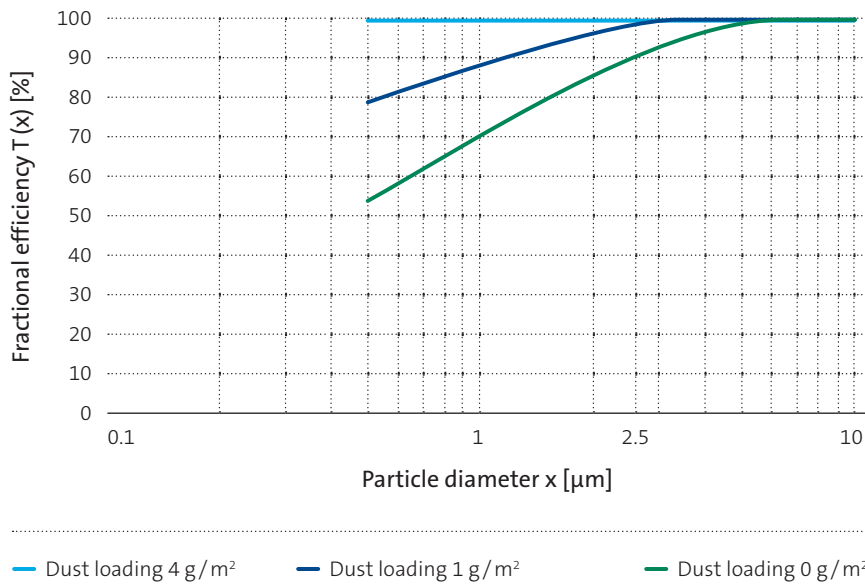
Freudenberg Filtration Technologies SE & Co. KG
Weinheim/Germany

FREUDENBERG
FILTRATION TECHNOLOGIES

 **FREUDENBERG**
INNOVATING TOGETHER

TECHNICAL FILTER TEST DATA FOR FE 2507- SINUS

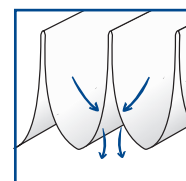
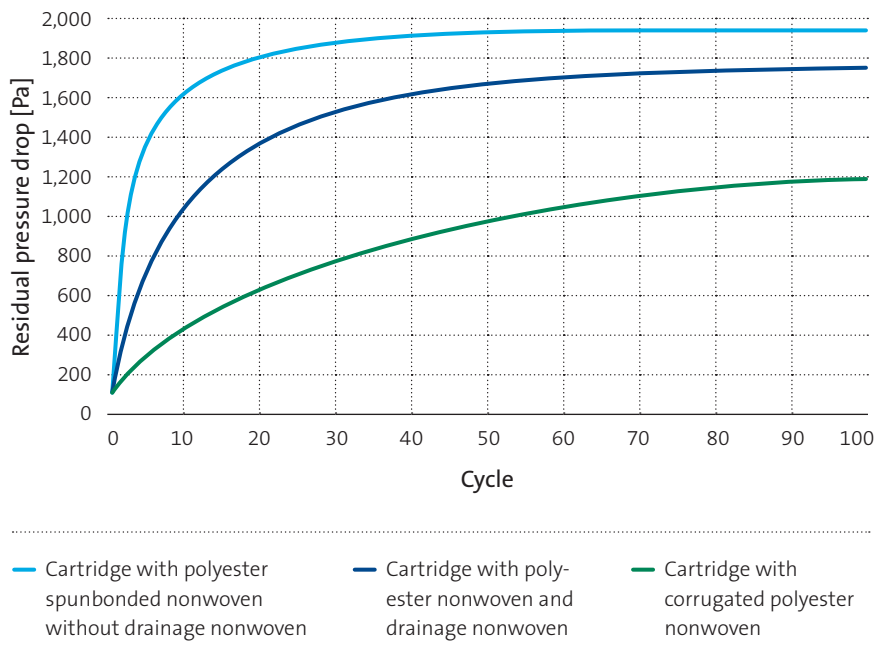
Fractional efficiencies of the filter medium FE 2507- sinus at different dust loadings, measured on the test stand in conformity with VDI 3926 and particle counter



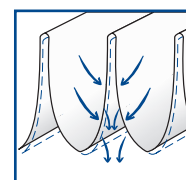
Test dust: limestone, $x_{50} = 1 \mu\text{m}$

The pleat design explains the outstanding pressure drop characteristics of the FE 2507- sinus type compared to other dust removal media.

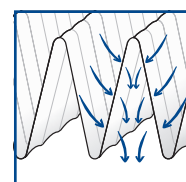
Residual pressure drop of cartridges with 327 mm diameter, 600 mm length and 10 m² filter area of polyester, dust class M



Pleats without drainage nonwoven



Pleat support with drainage nonwoven



Corrugated material with integrated spacers

The figures given are mean values subject to tolerances due to normal production fluctuations. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. Subject to technical alterations.