Filter medium FE 2507 – sine for Viledon dust removal elements

Freudenberg - the origin of nonwovens

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

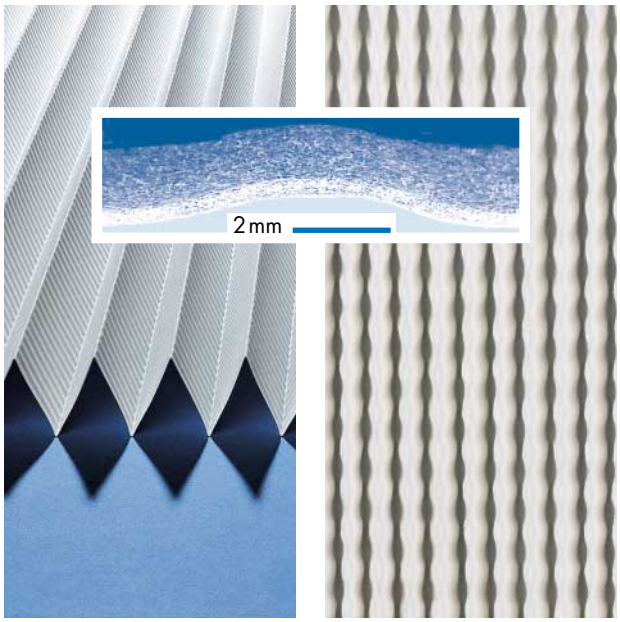
Lots of pluses for you with „sine"!

Save 25 – 35 % of your energy costs when operating your cartridge system. The pleat corrugation significantly reduces the pressure drop, and thanks to its full-area thermal bonding the material exhibits a significantly smoother surface than linearly embossed spun-bonded nonwovens. A plus which also benefits the cleaning characteristics into the bargain.

Profit from extended lifetimes and reduced maintenance costs. The pleat stabilization concept (patent pending) 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 – sine offer a larger effective filter area.

Measurements of fractional collection efficiencies prove: FE 2507 - sine meets the requirements of increasingly 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.



viledon®

Nonwoven data		
Weight	g/m²	240
Material thickness	mm	approx. 0.45
Maximum tensile strength md	N/5 cm	300/600
Maximum elongation amd	%	25/40
Technical filter data		
Air-permeability at 200 Pa	m³/m²h	300
BIA Category: (Dust class to IEC 60 335-2-69)		C (M)
Mean penetration degree for quartz dust	%	0.05

CERTIFIED DIN EN ISO 9001 QUALITY SYSTEM

and ENVIRONMENTAL MANAGEMENT SYSTEM to DIN EN ISO 14001

Reg. No. 1420

Freudenberg Vliesstoffe KG
Filter Division
Weinheim/Germany

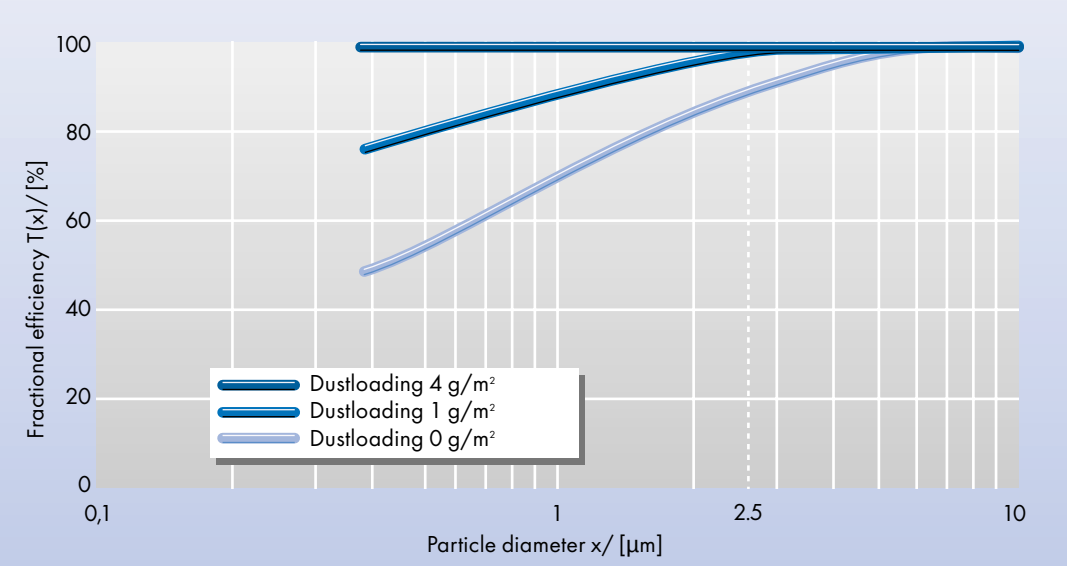
The figures given are mean values, with tolerances entailed by the customary production-related variations.
In any specific case, the correctness of any figure must be explicitly confirmed by us.

The Freudenberg Nonwovens Group

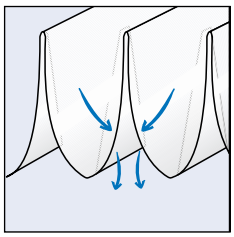
Freudenberg

Technical filter test data for the FE 2507- sine

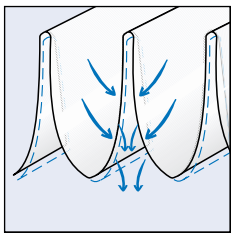
Diagram 1: Fractional efficiencies of the filter medium FE 2507- sine at different dust loadings, measured on the test stand in conformity with VDI 3926 and particle counter. Test dust: limestone, x_{50} = 1 µm.



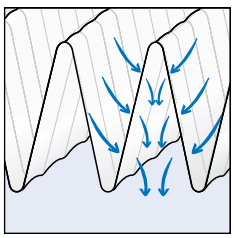
The pleat design explains the outstanding pressure drop characteristics of the FE 2507- sine type compared to other dust removal media.



Pleats without drainage nonwoven

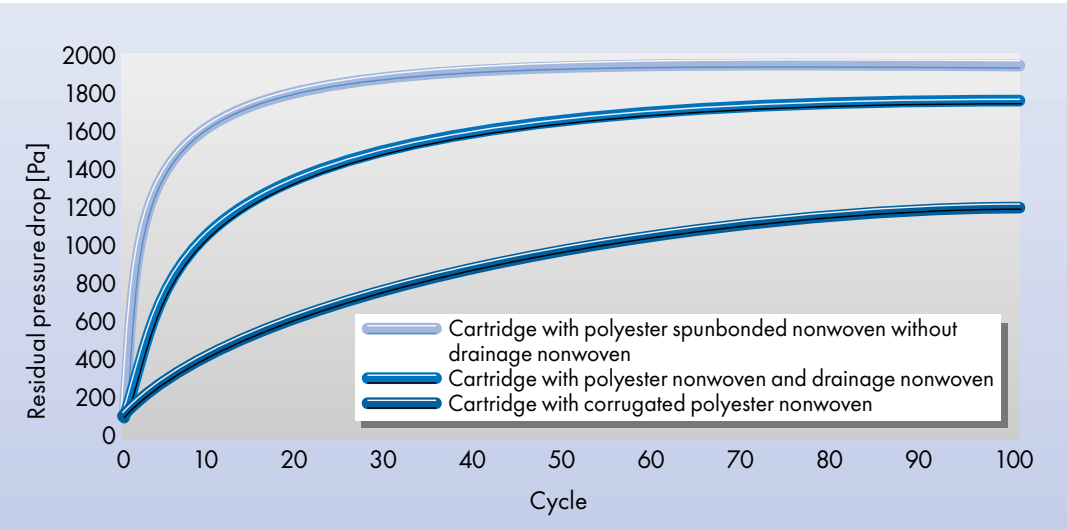


Pleat support with drainage nonwoven



Corrugated material with integrated spacers

Diagram 2: Residual pressure drop of cartridges with d = 327 mm, 175 pleats, pleat depth 48 – 50 mm and 10 m² filter area, polyester, BIA Category C



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FE 036 10/2001 GB · Printed on paper bleached without chlorine.