Antistatic filter media for Viledon dust removal elements

Freudenberg - the origin of nonwovens

- Antistatic filter media, finished with a patented raster imprint on both sides, applied by carbon suspension, offer:
  - ***High operational dependability*** without any restrictions on filter performance
  - ***Maintaining antistatic properties*** even when handling abrasive dusts or even after being washed in conformity with our washing instructions
- DMT test reports with electrical surface and volume resistances of < 10^8 Ω are on file.
- Thanks to full-area thermal bonding of the media, very smooth nonwoven surfaces are achieved. The dust cake is thus removed much more effectively during cleaning than is the case with spunbonded nonwovens which are point-sealed or line embossed.

Choose the right medium for your specific application!

Depending on the application involved, different variants are used, offering you the optimum solution to your dust removal problem with maximized reliability:

- ***FE 2501-01***

Polyester staple-fiber nonwoven for all dusts with residual-dust requirements of < 1 mg/m³ *.

- ***FE 2506-01***

Polyester staple-fiber nonwoven with microfibers and sinusoidal pleat corrugation for all dusts with residual-dust requirements of < 1 mg/m³ *.

- ***FE 2508-01***

Polypropylene wet-laid nonwoven for non-abrasive dusts with residual-dust requirements of < 1 mg/m³ *.

The measurements of fractional collection efficiencies prove it: a high percentage of even ultra-fine dusts is arrested, thanks to the more homogeneous fiber structure compared to spunbonded nonwovens. The FE 2501-01, FE 2506-01 and FE 2508-01 media thus comply with ever-more-stringent emission guidelines.

- ***FE 2519-01***

Polyester spunbonded nonwoven for all non-abrasive dusts with residual-dust requirements of < 5 mg/m³ *. The material is particularly well suited for use in cartridges, replacing needle-punched nonwoven bags, or as a base material for lamination with a PTFE membrane.

- ***FE 2523-01***

Polyester spunbonded nonwoven coated with a PTFE membrane on one side.
The material is particularly well suited for arresting oil-free, sticky or smoky dusts with residual-dust contents far below the gravimetric detection limit.

* depending on the operating conditions involved

viledon®

CERTIFIED DIN EN ISO 9001 DQS QUALITY SYSTEM

and ENVIRONMENTAL MANAGEMENT SYSTEM to DIN EN ISO 14001

Reg. No. 1420

Freudenberg Filtration Technologies Weinheim/Germany

Freudenberg

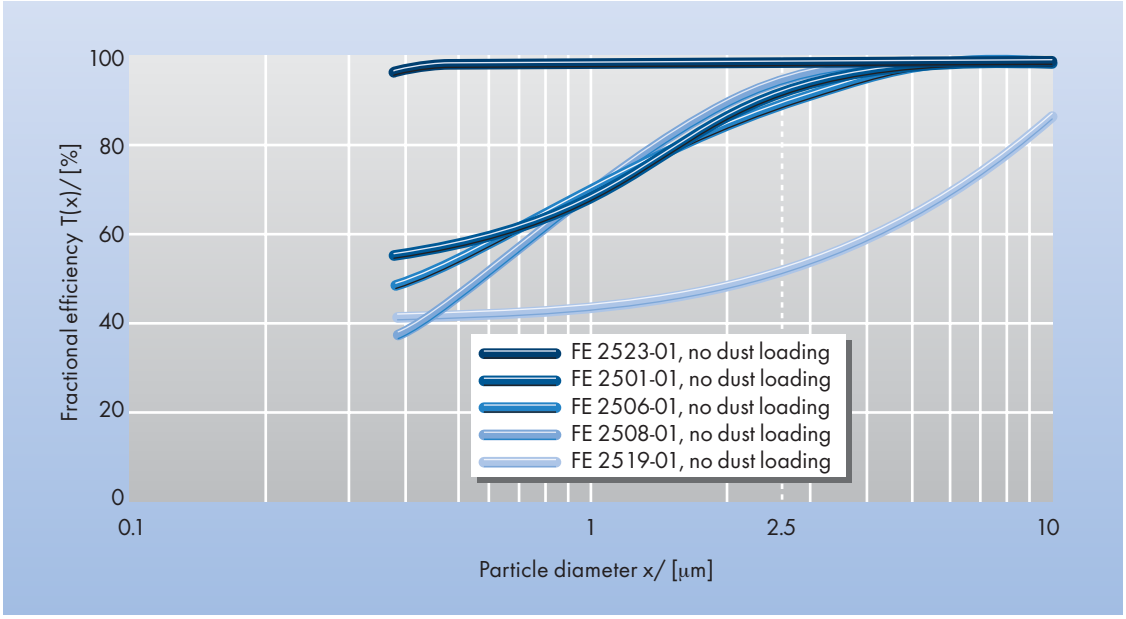
Technical filter test data on the antistatic filter media for Viledon dust removal elements

For every application, the right filter medium with the right arrestance characteristics

	FE 2501-01	FE 2506-01	FE 2508-01	FE 2519-01	FE 2523-01
Weight [g/m²]	255	250	130	260	280
Air-permeability at 2 mbar [m³/m²h]	280	300	500	3400	320
Dust class to DIN EN 60 335-2-69, Annex AA	M	M	M	-	M
BIA Category*	C	C	C	U	C
Mean penetration degree for quartz dust [%]	0.04	0.07	0.02	2.4	< 0.01

*valid till end of 2002

Diagram 1 : Fractional efficiencies of antistatic Viledon filter media, measured on a test rig to VDI 3926 and particle counter. Test dust: limestone, x_{50} = 1 µm.



The figures given here are mean values with tolerances entailed by the customary production fluctuations. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. All preceding versions are hereby rendered invalid.
Viledon® is a registered and protected trademark of Carl Freudenberg.

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