

# Filters for dust removal

## Filter media for dust removal elements

Specifications	



### FE 2506-sinus and FE 2507-sinus

- The pleatable polyester filter media with sinusoidal cross-section and microfibers achieve up to 35% energy cost savings when operating a cartridge system.
- You benefit from an extended operational lifetime and reduced maintenance costs.
- The patented pleat stabilization is thermally stable up to 90°C and remains mechanically stable even under alternating loads in the filtration and cleaning phases.
- Increase your filters' air flow rate, since the cartridges finished with FE 2507-sinus offer a higher effective filtering area.

### Antistatic filter media

- Finished with a patented raster imprint on both sides, applied by carbon suspension.
- High operational dependability without restricting the filters' performance.
- Retain their antistatic effect even with abrasive dusts or after being washed in conformity with the washing instructions.
- DEKRA test reports with electric surface and resistances to ground < 10<sup>8</sup> Ω are on file.

Full-area thermal bonding of the media involved creates very smooth nonwoven surfaces. This means removal of the dust cake during cleaning is significantly better than with spunbonded nonwovens featuring punctiform or linear bonding.

### Delivery notes

Customized dimensions are available on request, not available as roll goods.

### sinTexx Plus

- sinTexx Plus is a corrugated polyester medium with a nanofiber lining, developed specifically for removing dust from smoke produced in welding, cutting and coating processes.
- Collection efficiency for fine dust and smoke improved across the board and assured right from the start. Thanks to the higher collection efficiency threshold limit values for the workplace can be reliably complied with.
- Highly efficient thanks to lower flow resistance. This significantly reduces the consumption levels for power and compressed-air and extends useful lifetime of the filter elements concerned. Finally this improves the energy balance for the system's operator.
- Dispensation of the initial precoating of cartridges otherwise customary. This implies easier handling, less maintenance and the costs can be reduced.
- Combination of excellent properties of the corrugated Viledon filter medium with improved filtration behaviour.

Efficacious filtration of ultra-fine and difficult-to-handle dust and smoke outperforming customary media.

### NEXX + NEXX as

This patented microfiber material has been developed specifically for the stringent requirements obtaining in dust removal systems, and possesses unique properties for surface filtration.

- Dusts can be quickly and easily washed off the microfiber layer of the Viledon® NEXX filter medium.
- With Viledon® NEXX clean-gas values of < 1 mg/m<sup>3</sup> can be lastingly achieved.
- Resource-saving manufacturing allows active contribution to environmental protection.

Article	Filter medium	Thickness approx. [mm]	Dust class*	Air-permeability at 200 Pa [l/s × m²]	Elongation at maximum tensile force along / across [%]	Maximum tensile force along / across [N / 5 cm]	Weight per unit area approx. [g / m²]
FE 2501	PES, thermally bonded, antistatic halftone print	0.45	M	280	12 / 25	300 / 600	260
FE 2502	PES, thermally bonded	0.45	M	280	12 / 25	300 / 600	250
FE 2506	PES, thermally bonded, antistatic halftone print	0.45	M	300	25 / 40	300 / 600	250
FE 2507	PES, thermally bonded	0.45	M	300	25 / 40	300 / 600	240
FE 2508	100% Polyolefin, thermally bonded, antistatic halftone print	0.3	M	500	25 / 25	350 / 600	130
FE 2509	100% Polyolefin, thermally bonded	0.3	M	500	25 / 25	350 / 200	120
FE 2519	PES, thermally bonded, antistatic halftone print	1.0		3,400	35 / 35	750 / 750	260
FE 2520	PES, thermally bonded	1.0		3,400	35 / 35	750 / 750	250
FE 2521	PES, thermally bonded, + PTFE membrane	1.0	M	220	35 / 35	750 / 750	270
FE 2523	PES, thermally bonded, antistatic halftone print, + PTFE membrane	1.0	M	220	35 / 35	750 / 750	280
NEXX	PES / PA, microfilaments	1.0	M	360	35 / 35	700 / 800	240
NEXX as	PES / PPA, microfilaments; anistatic finish	1.0	M	360	35 / 35	700 / 800	240
sinTexx Plus	PES, thermally bonded with nanofiber lining	0.55	M	450	25 / 40	500 / 700	240
sinTexx Plus as	PES, thermally bonded with nanofiber lining; antistatic finifh	0.55	M	400	25 / 40	500 / 700	240

Subject to technical changes.

\* according to DIN EN 60 335-2:69 appendix AA