

# FILTERS FOR DUST REMOVAL

FILTER CARTRIDGES, FILTER BAGS,  
FILTER PLATES, FILTER MEDIA



We develop customized dust removal concepts for enhancing occupational safety and protecting both the environment and technical systems, as well as for product recovery. Based on a careful analysis, we individually select the appropriate filter medium for the respective dust requirement as well as the appropriate dust removal element, which is variable in terms of shape, overall height, nominal diameter and pleat geometry.



# FILTERS FOR DUST REMOVAL



## FILTER CARTRIDGES



DIN standard cartridges	

### DIN standard cartridges

Cylindrical filter cartridges for horizontal and vertical installation with integrated interior support cage in various heights. Simple installation using a tie-rod or a closure cover. Available in nominal diameters of 200, 327 mm and 351 mm, and in the standard lengths of 300, 400, 600, 660, 1000 and 1200 mm.

### Twist&Fix filter cartridges

- Cylindrical filter cartridges with four nominal diameters 145, 156, 218 and 324 mm, with standard lengths of 300, 600, 1000, 1200 and 1500 mm and with 3- or 4-hook flanges. Perfect fit of the filter cartridge and protection of the filter medium thanks to centering collar.
- Spacer ribs (patented) on both sides at the flange ensure correct installation and an optimum seal to the system's raw-gas compartment.
- A foamed-on seal on both sides – for installation on the raw or clean-gas side as desired.

### Snap&Fix filter cartridges

- The cartridge series snaps into place "properly", for a perfect axial seal achieved without any further aids like metal sleeves or spring washers.
- Suitable for upgrading old bag filter systems or for new installations.
- Installation: on the clean-gas side without any elaborate screwing work: simply press into place and the patented snap-on hooks will engage.

### Features and benefits

- Low pressure drop values.
- Minimized compressed-air-consumption for the cleaning routine.
- Pleat geometry optimally matched to the application concerned.
- All cartridges are fitted with surface media, and can be cleaned using a pulse-jet procedure or rotary nozzles.
- Long operational lifetimes.
- Low replacement costs.
- Low disposal outlay thanks to long operational lifetimes.
- Antistatic variants have DEKRA certification.

ARTICLE	ARTICLE NUMBER	VERSION	FILTER MEDIUM	NOMINAL DIAMETER / NOMINAL LENGTHS [mm]	FILTER AREA [m <sup>2</sup> ]	PLEAT DEPTH [mm]	DUST CLASS
LP 351 D-71-A 17-76	53457670	DIN open/open	sinTexx Plus as	351 / 710	17	44	M
LP 327 S-12-A 15-06	53343700	DIN standard cartridge	FE 2506-sinus, PES (antistatisch)	327 / 1,205	15.6	46	M
LP 200 S-40-A 20-07	53322727	DIN standard cartridge	FE 2507-sinus, PES	200 / 405	2.0	32	M
LP 327 S-66-A 14-07-L	53421628	DIN standard cartridge	FE 2507-sinus, PES	327 / 660	13.9	46	M
LP 327 S-12-A 25-07	53324309	DIN standard cartridge	FE 2507-sinus, PES	327 / 1,205	25.3	46	M
LP 327 S-30-B 50-09	53492086	DIN standard cartridge	FE 2509, PP	327 / 305	5.0	46	M
LP 327 D-66-A 11-09	53492081	DIN standard cartridge	FE 2509, PP	327 / 660	11.0	46	M
LP 327 S-66-A 11-09	53492094	DIN standard cartridge	FE 2509, PP	327 / 660	11.0	46	M
LP 327 S-76-A 12-09	53492095	DIN standard cartridge	FE 2509, PP	327 / 765	12.6	46	M
LP 327 S-10-A 13-09	53492070	DIN standard cartridge	FE 2509, PP	327 / 1,005	13.0	46	M
LP 327 S-60-A 10-76	53458532	DIN standard cartridge	sinTexx Plus as	327 / 605	10	46	M
LP 152 B-15-A 54-07	53321826	Snap&Fix cartridge	FE 2507-sinus, PES	152 / 1,512	5.4	22	M
LP 155 B-15-A 54-07	53327406	Snap&Fix cartridge	FE 2507-sinus, PES	155 / 1,512	5.4	22	M
LP 145 G-10-A 27-06	53375277	Twist&Fix cartridge	FE 2506-sinus, PES (antistatisch)	145 / 1,012	2.7	22	M
LP 156 G-10-A 36-06	53372251	Twist&Fix cartridge	FE 2506-sinus, PES (antistatisch)	156 / 1,012	3.6	22	M
LP 218 G-15-A 75-09	53295115	Twist&Fix cartridge	FE 2509, PP	218 / 1,512	7.5	29	M
LP 324 G-60-B 77-21	53306324	Twist&Fix cartridge	FE 2521, PES + PTFE-Membran	324 / 612	7.7	46	M
LP 324 G-12-A 25-77	53457204	Twist&Fix cartridge	sinTexx Plus	324 / 1,212	25.3	46	M
LP 145 G-15-A 54-77	53458531	Twist&Fix cartridge	sinTexx Plus	145 / 1,512	5.4	22	M

Subject to technical changes.



# FILTERS FOR DUST REMOVAL

## FILTER BAGS




Viledon® filter bags are available in a large number of different sizes, lengths and models, and in different top and bottom section variants. They can be precoated to suit your own particular needs, e.g. with FHM 1500 for sticky dusts or with lime for oily dusts.

### Viledon® NEXX Bags

- Viledon® NEXX filter bags are the next generation of surface filters, with outstanding advantages compared to conventional filters featuring needlefelt.
- Whether in the pigment, cement or metal industrie, in fact wherever large quantities of dust are encountered, Viledon® NEXX filter bags are what you need.
- Original Viledon® NEXX: This high-quality patented filter medium possesses unique properties for surface filtration.
- Trouble-free cleaning: Dusts can be quickly and easily cleaned off the microfiber layer of the Viledon® NEXX filter bags.
- Reduced energy costs: Thanks to optimized filter performance, less compressed air is used during the cleaning process, and the fan's power consumption downsized.
- Low emissions: With Viledon® NEXX, clean-gas values of  $< 1 \text{ mg/m}^3$  can be lastingly achieved.
- In comparison to needlefelts, Viledon® NEXX requires around 50% less resources to produce. Coupled with the same (or an even higher) filtration performance! This means you're making a proactive contribution to protecting the natural environment and ensuring sustainable resource-economy.
- Application: E.g. fine dusts, pigment, cement and metal industries.

### Viledon® Fiber Bags

- Viledon® Fiber Bags with unique characteristics are particularly suitable for use in the wood and paper industry.
- In particular for extraction of fibrous dust, high arrestance with a low pressure drop can be achieved.
- Significantly longer useful lifetimes than conventional needlefelts.
- Very high resistance to abrasion.
- Viledon® FE 2919 + FE 2920 are made from recycled polyester. So the plastic can be brought back into industrial circulation and is not dumped on a landfill. This is a proactive contribution towards resource-economy.
- Applications: Fibrous dusts, wood and paper industries.

### Delivery notes

The innovative Viledon® filter media are also available as roll material: Antistatic (gray-black raster print) or in the standard version (gray).

ARTICLE	FILTER MEDIUM	WEIGHT PER UNIT AREA APPROX. [g/m <sup>2</sup> ]	MAXIMUM TENSILE FORCE ALONG / ACROSS [N / 5 cm]	THERMAL STABILITY [°C]
NEXX Bags	NEXX	240	700 / 800	120
NEXX Bags as	NEXX as	250	700 / 800	120
Fiber Bags	FE 2920	250	750 / 750	150
Fiber Bags as	FE 2919	260	750 / 750	150

Subject to technical changes.

# FILTERS FOR DUST REMOVAL



## FILTER PLATES



SPECIFICATIONS	
<b>Note</b>	Electrostatically conductive filter plates must be properly earthed

### Features and benefits

- High-performance filter plates for every application, to ensure compliance with the statutory residual-dust emission values.
- Long lifetime coupled with low maintenance and operating costs.
- Space-saving thanks to compact construction with pleated, synthetic filter media.
- Can be regenerated using all customary cleaning processes and by washing.
- DryPleat and DryPleat nano filter plates are ideal for high-quality dry separation of paint overspray using stone powder. They are silicone-free and are available for both clean and raw air side applications.

### Delivery notes

Customized product variants and dimensions available on request. Please ask our customer service for technical data.

ARTIKEL	DIMENSIONS (W×H×D) [mm]	PLEAT DEPTH [mm]	FILTER MEDIUM	FILTER AREA [m <sup>2</sup> ]	NUMBER OF PLEATS
FP 0110 C6014N	515×600×52	15	FE 2831 Polyester	1.4	40
FP 0110 C6014L	515×600×52	15	FE 2832 Polyester antistatic	1.4	40
FP 0110 C6014C	515×600×52	15	FE 2833 Polyester + PTFE Membrane	1.4	40
FP 0110 C6014D	515×600×52	15	FE 2834 Polyester + PTFE Membrane antistatic	1.4	40
FP 0110 C1024N	515×1,000×52	15	FE 2831 Polyester	2.4	40
FP 0110 C1024L	515×1,000×52	15	FE 2832 Polyester antistatic	2.4	40
FP 0110 C1024C	515×1,000×52	15	FE 2833 Polyester + PTFE Membrane	2.4	40
FP 0110 C1024D	515×1,000×52	15	FE 2834 Polyester + PTFE Membrane antistatic	2.4	40
FP 0110 C1230N	515×1,200×52	15	FE 2831 Polyester	3.0	40
FP 0110 C1230L	515×1,200×52	15	FE 2832 Polyester antistatic	3.0	40
FP 0110 C1230C	515×1,200×52	15	FE 2833 Polyester + PTFE Membrane	3.0	40
FP 0110 C1230D	515×1,200×52	15	FE 2834 Polyester + PTFE Membrane antistatic	3.0	40
FP 0800 C6021N	515×600×52	15	FE 2831 Polyester	2.1	60
FP 0800 C6021L	515×600×52	15	FE 2832 Polyester antistatic	2.1	60
FP 0800 C6021C	515×600×52	15	FE 2833 Polyester + PTFE Membrane	2.1	60
FP 0800 C6021D	515×600×52	15	FE 2834 Polyester + PTFE Membrane antistatic	2.1	60

Subject to technical changes.



# FILTERS FOR DUST REMOVAL

## FILTER PLATES

SPECIFICATIONS	
Note	Electrostatically conductive filter plates must be properly earthed



### Delivery notes

Customized product variants and dimensions available on request.  
Please ask our customer service for technical data.

ARTIKEL	DIMENSIONS (W×H×D) [mm]	PLEAT DEPTH [mm]	FILTER MEDIUM	FILTER AREA [m <sup>2</sup> ]	NUMBER OF PLEATS
FP 0800 C1034N	515×1,000×52	15	FE 2831 Polyester	3.4	60
FP 0800 C1034L	515×1,000×52	15	FE 2832 Polyester antistatic	3.4	60
FP 0800 C1034C	515×1,000×52	15	FE 2833 Polyester + PTFE Membrane	3.4	60
FP 0800 C1034D	515×1,000×52	15	FE 2834 Polyester + PTFE Membrane antistatic	3.4	60
FP 0800 C1241N	515×1,200×52	15	FE 2831 Polyester	4.1	60
FP 0800 C1241L	515×1,200×52	15	FE 2832 Polyester antistatic	4.1	60
FP 0800 C1241C	515×1,200×52	15	FE 2833 Polyester + PTFE Membrane	4.1	60
FP 0800 C1241D	515×1,200×52	15	FE 2834 Polyester + PTFE Membrane antistatic	4.1	60
FP 1800 C1050C	578×1,045×74	24	FE 2833 Polyester + PTFE Membrane	5.0	52
DryPleat 2909	566×1,500×80	23	FE 2834 Polyester + PTFE Membrane antistatic	4.7	36
DryPleat nano 2909	566×1,500×80	23	sinTexx Plus advanced antistatic	4.7	36
DryPleat 2909M	566×1,500×80	24	FE 2834 Polyester + PTFE Membrane antistatic	5.0	36
DryPleat nano 2909M	566×1,500×80	24	sinTexx Plus advanced antistatic	5.0	36
DryPleat 0900M	1,050×1,500×62	23	FE 2834 Polyester + PTFE Membrane antistatic	10.2	72
DryPleat nano 0900M	1,050×1,500×62	23	sinTexx Plus advanced antistatic	10.2	72
DryPlat 0900	1,054×1,500×80	26	sinTexx Plus advanced antistatic	10.9	72

Subject to technical changes.

# 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 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.

ARTICLE	FILTER MEDIUM	THICKNESS APPROX. [mm]	WEIGHT PER UNIT AREA APPROX. [g/m <sup>2</sup> ]	DUST CLASS	AIR-PERMEABILITY AT 200 Pa [m <sup>3</sup> /(m <sup>2</sup> × h)]	ELONGATION AT MAXIMUM TENSILE FORCE ALONG / ACROSS [%]	MAXIMUM TENSILE FORCE ALONG / ACROSS [N / 5 cm]
FE 2506	PES, thermisch gebunden, antistatischer Rasterdruck	0.8	245	M	360	25 / 40	300 / 600
FE 2507	PES, thermisch gebunden	0.8	235	M	360	25 / 40	300 / 600
FE 2508	100 % Polyolefin, thermisch gebunden, antistatischer Rasterdruck	0.3	130	M	360	25 / 25	350 / 200
FE 2509	100 % Polyolefin, thermisch gebunden	0.3	120	M	360	25 / 25	350 / 200
FE 2519	PES, thermisch gebunden, antistatischer Rasterdruck	1.1	260	L	3,400	35 / 35	750 / 750
FE 2520	PES, thermisch gebunden	1.1	250	L	3,400	35 / 35	750 / 750
FE 2521	PES, thermisch gebunden, + PTFE-Membran	1.0	270	M	320	35 / 35	750 / 750
FE 2523	PES, thermisch gebunden, antistatischer Rasterdruck, + PTFE-Membran	1.0	280	M	320	35 / 35	750 / 750

Subject to technical changes.



# FILTERS FOR DUST REMOVAL

## FILTER MEDIA FOR DUST REMOVAL ELEMENTS

SPECIFICATIONS	



### 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 behavior.

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

### NEXX

This patented microfiber material has been developed specifically for the stringent requirements 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.

### Delivery notes

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

ARTICLE	FILTER MEDIUM	THICKNESS APPROX. [mm]	WEIGHT PER UNIT AREA APPROX. [g/m <sup>2</sup> ]	DUST CLASS	AIR-PERMEABILITY AT 200 Pa [m <sup>2</sup> /(m <sup>2</sup> × h)]	ELONGATION AT MAXIMUM TENSILE FORCE ALONG / ACROSS [%]	MAXIMUM TENSILE FORCE ALONG / ACROSS [N/5 cm]
FE 2576 sinTexx Plus as	PES, thermisch gebunden mit Feinstfaserauflage; antistatische Ausrüstung	0.75	240	M	600	25 / 40	500 / 700
FE 2577 sinTexx Plus	PES, thermisch gebunden mit Feinstfaserauflage	0.75	230	M	600	25 / 40	500 / 700
FE 2931 NEXX as	PES/PA, Mikrofilamente; antistatische Ausrüstung	1.0	250	M	480	35 / 35	700 / 800
FE 2932 NEXX	PES/PA, Mikrofilamente	1.0	240	M	600	35 / 35	700 / 800
FE 2933 NEXX as wr	PES/PA, Mikrofilamente; antistatische Ausrüstung; wasser- und ölabweisende Ausrüstung	1.0	255	M	420	35 / 35	700 / 800
FE 2934 NEXX wr	PES/PA, Mikrofilamente; wasser- und ölabweisende Ausrüstung	1.0	245	M	420	35 / 35	700 / 800