

Filter mats

Filter mats, filter panels, roll filters, paint mist arrestors



Viledon® filter mats are progressively structured, with the density of the fiber layers increasing towards the clean air side. This ensures an optimum in terms of defined filter performance and dust holding capacity, coupled with a low pressure drop. All filter mats are produced using an eco-friendly formula. They are moisture-resistant up to 100% relative humidity and thermally stable up to at least 100°C.

Filter mats

Filter mats | Coarse dust



Specifications	
Filter medium	P15 and T3 / 290 S: Polyolefin fibers; Other: Polyester fibers
Recommended final pressure drop	250 Pa
Thermal stability	up to 100° C
Moisture resistance	100% rel. hum.
Fire class	F1 acc. to DIN 53438
Packing	1 roll

PSB series

Application

The PSB filter mats are used for intake air filtration in air-conditioning systems of all kinds, particularly for coarse dust arrestance or as a prefilter stage.

The PSB range comprises of

- PSB / 145 S
- PSB / 275 S
- PSB / 290 S

Special features of the PSB series

- By virtue of their high dust holding capacity and their long lifetime, PSB filter mats are exceptionally cost-efficient.
- All types in this series prove their worth in application categories where stable arrestance performance is required when coping with a large dust loading and a high air flow rate.
- When used in exhaust air filtration, one of the advantages of the PSB series is that arrestance efficiency and dust holding capacity are ideally matched to each other.

P15 series

Application

All types in this series can cope with heavy-duty operation and are suitable for filtration in air-conditioning systems of all kinds.

The P15 series features the familiar Viledon® filter mats

- P15 / 150 S
- P15 / 350 S
- P15 / 500 S

Special features of the P15 series

- High arrestance efficiency right from the start over the entire operational lifetime, for maximized operational dependability.
- The material's high mechanical strength ensures good dimensional stability, even when subjected to large air volumes, over the entire operational lifetime.
- Thanks to the polyolefin fibers used, P15 filter mats are largely resistant to chemicals such as solvents, acids and lyes. They must be protected against continuous UV irradiation.
- The filter mats can be cleaned by careful washing, beating or spraying; even after being washed, they remain dimensionally stable and retain their technical filtering characteristics. Our eco-friendly series of filters is much in demand among users prioritizing waste avoidance and filtration cost savings.

T3 / 290 S

This ultra-efficient G4 filter mat is suitable for filtration in confined spaces, e.g. in control cabinets or electrical equipment. Thanks to the use of polyolefin fibers, it is highly resistant to chemicals, and hydrophobic.

Delivery notes

All the filter mats we supply are airtight packed as roll goods in standard dimensions in plastic sheets. Other dimensions are available as roll goods or blanks. Special shapes like die-cuts and bags, welded or sewn, are available on request.

Article number	Article	Dimensions (W x L) [mm / m]	Thickness approx. [mm]	Filter class	Nominal media velocity [m / s]	Initial pressure drop [Pa]	Average arrestance efficiency [%]	Dust holding capacity [g / m²]	Weight per unit area approx. [g / m²]
7833647	PSB / 145 S 40 / 2000	2,000 / 40	10	G2	2	22	70	600	120
8039227	P15 / 150 S 40 / 2000	2,000 / 40	8	G2	2	30	75	600	100
53375688	PSB / 275 S 30 / 2000	2,000 / 30	15	G3	1.5	22	83	700	180
8039427	P15 / 350 S 30 / 2000	2,000 / 30	14	G3	1.5	30	84	600	200
8019407	PSB / 290 S 20 / 2000	2,000 / 20	20	G4	1	22	91	750	300
8040248	P15 / 500 S 20 / 2000	2,000 / 20	20	G4	1	30	94	600	350
8105365	T3 / 290 S 40 / 2000	2,000 / 40	8	G4	0.25	14	96	250	200

Subject to technical changes.

Specifications	
Filter medium	PES
Recommended final pressure drop	450 Pa
Thermal stability	up to 100° C; PA/ ProfAir: Briefly up to 120° C
Moisture resistance	up to 100% rel. hum.
Migration test class	S0
Fire class	F1 acc. to DIN 53438



A3/300S

Application

The A 3 / 300 S filter mat is designed primarily for high-quality final filtration in air-conditioning devices and systems, and as prefilters in multi stage intake air systems.

Special features

- The special smoothing of the clean air side increases the rigidity of the filter mat, rendering it sturdy and installation-friendly.
- By virtue of its very good arrestance performance, the A3 / 300 S filter mat can be used universally in all applications in which high-quality filtration in the fine dust range is demanded in order to protect both, humans and machinery.

ProfAir

Application

ProfAir is a fine filter for final filtration of intake air in repair paint-spray booths. The filter mat ensures high arrestance performance for particles > 10 µm and thus provides a high degree of protection against paintwork damage.

PA/500-10, PA/560 G-10 and PA-5 micron

Application

The PA / 500-10 and PA / 5560 G-10 filter mats, acknowledged as the standard in surface treatment technology, are used for final filtration of the intake air in paint shops und paint-spray booths. The principal application category for the PA-5 micron filter mat is final filtration of the intake air in paint-spray processes with particularly stringent requirements for air purity.

Special features of the PA series

- PA / 500-10 and PA / 560 G-10 assure practically 100% arrestance of particles > 10 µm, which are able to cause visually perceptible surface blemishes. This offers their users maximized security against paintwork defects.
- With practically 100% arrestance of particles > 5 µm, the PA-5 micron filter mat meets even the most stringent of requirements in surface treatment technology and offers its users maximized dependability in the production process.
- The adherent surface of each individual fiber in the filter media can be relied upon to retain already-arrested particles over the entire operational lifetime.
- Thanks to the adherent surface of the fibers, the PA-5 micron is able to lastingly bond more than 3 kg / m² of pourable aloxite dust.
- PA / 560 G-10 and PA-5 micron additionally possess a reinforcing mesh fabric on the clean air side, which increases the filter mat's stability and reduces the risk of the clean air side being damaged during installation.
- All PA filter mats are resistant to solvent vapours and contain no silicone.

Delivery notes

All the filter mats we supply are airtight packed as roll goods in standard dimensions in plastic sheets. Other dimensions available on rolls or as blanks. Special shapes like die-cuts and bags, welded or sewn, are available on request.

Article number	Article	Dimensions (W x L) [mm / m]	Thickness approx. [mm]	Filter class	Nominal media velocity [m / s]	Initial pressure drop [Pa]	Average efficiency [%]	Average arrestance efficiency [%]	Dust holding capacity [g / m ²]	Weight per unit area approx. [g / m ²]
8422288	A3 / 300 S 20 / 2000	2,000 / 20	20	M5	0.25	20	46	97	330	300
53350549	ProfAir N 20 / 2000	2,000 / 20	22	M5	0.25	30	45	96	250	545
7700072	PA / 500-10 18 / 1600	1,600 / 18	25	M5	0.25	25	50	98	300	500
7802106	PA / 500-10 20 / 2000	2,000 / 20	25	M5	0.25	25	50	98	300	500
53253198	PA / 560 G-10 20 / 1600	1,600 / 20	25	M5	0.25	30	55	99	300	580
7802206	PA / 560 G-10 20 / 2000	2,000 / 20	25	M5	0.25	30	55	99	300	580
8887232	PA / 560 G-10 22 / 1600	1,600 / 22	25	M5	0.25	30	55	99	300	580
8238130	PA / 560 G-10 22 / 2000	2,000 / 22	25	M5	0.25	30	55	99	300	580
53296957	PA-5 micron BK 20 / 2000	2,000 / 20	25	M6	0.25	55	70	99	300	650

Subject to technical changes.

Filter mats

Filter panels



Specifications	
Filter medium	Various Viledon® filter media available
Thermal stability	70 °C
Moisture resistance	100% rel. hum.
Frame	Polyurethane

Application

The filter panels are used for intake air filtration in air-conditioning systems of all kinds, particularly for coarse dust arrestance or as prefilter stage. Application areas include e. g.

- Heavy industry: cement plants, steel mills
- Automotive: paint booths
- Food industry
- Petrochemical industry

Filter panels are used to protect the climate and ventilation systems, control panels and heating systems.

Special features

- Large range of high quality and efficient Viledon® filter media
- Extremely rigid
- Non-corroding and moisture-resistant up to 100% relative humidity
- Easy installation, no extra clamping necessary
- Self-sealing through overlapping filter medium

Delivery notes

Filter panels in a washable version are available upon request.

Article number	Article	Filter medium	Dimensions (W x L) [mm]	Filter class	Nominal volume flow [m³/h]	Pressure drop [Pa]
53263665	LH 111 MIT P15/150 S 610/610	P15/150 S	610x610	G2	2,600	25
53263659	LH 101 MIT PSB/290 S 610/610	PSB 290	610x610	G4	1,300	35
53263662	LH 101 MIT PSB/290 S 700/500	PSB 290	700x500	G4	1,250	35
53263658	LH 101 MIT PSB/290 S 625/500	PSB 290	625x500	G4	1,100	35
53263660	LH 101 MIT PSB/290 S 500/500	PSB 290	500x500	G4	720	35
53263661	LH 101 MIT PSB/290 S 500/400	PSB 290	500x400	G4	900	35
53253599	LH 103 MIT P15/500 S 610/610	P15/500	610x610	G4	1,300	35
53000301	LH 103 MIT P15/500 S 500/500	P15/500	500x500	G4	900	35
53430605	LH 103 MIT PA/560 G-10 500/500	PA/560 G-10	500x500	M5	450	55

Subject to technical changes.

Filter mats

Roll filters | Coarse dust

Specifications	
Filter medium	Polyester fibers
Recommended final pressure drop	160 Pa
Initial pressure drop	50 Pa at 2.5 m/s
Dust holding capacity	400 g/m ²
Gravimetric efficiency	80% (EN 779)
Weight	250 g/m ²



Application

The R/260 filter mat is used for filtration in roll filter equipment.

The medium and its features

The medium used is a high-performance nonwoven made of polyester fibers with thermal fiber bonding, i. e. without any bonding agents. The filter medium is progressively structured, featuring fiber layers with different fiber diameters, arranged one after the other in such a way that the density of the fiber layers increases towards the clean air side. This ensures an optimum in terms of defined filter performance and dust holding capacity. Result: longer operational lifetime of the filter. A scrim increases the mechanical strength.

Fire behaviour

Viledon® filter media meet the stringent requirements of fire class F1 in conformity with DIN 53438, and are thus self-extinguishing.

Delivery notes

Available on a cardboard core or a metal spool.
The roll goods R/260 (40 running meters) are manufactured in three different widths: 2,200 mm, 1,900 mm and 1,600 mm.

Article number	Article	Filter class	Thickness approx. [mm]
53329934	LH_R 260/810	G3	8
53329914	LH_R 260/838	G3	8
53329936	LH_R 260/1110	G3	8
53329915	LH_R 260/1143	G3	8
53361322	LH_R 260/1250	G3	8
53329938	LH_R 260/1410	G3	8
53329916	LH_R 260/1448	G3	8
53329940	LH_R 260/1710	G3	8
53329917	LH_R 260/1753	G3	8
53355829	LH_R 260/2010 D-spool	G3	8
53329918	LH_R 260/2058	G3	8

Subject to technical changes.