

Air Filter Mats

Voigt-Coarse Dust Filter Mats made of synthetic non-breaking fibers are manufactured in an environmentally friendly manner and are easy to dispose. They are partly regenerable (tapping out, washing out). Given that the medium is compressed on the clean air side, the whole depth of the filter mat can be used to store the dust. The coarse dust filter mats are fabricated without the use of chemical bonding agents. The classification is carried out in accordance with DIN EN 779.

Voigt-Fine Dust Filter Mats made of non-breaking synthetic, thermally bonded fibers are ideally suited for filtration in paint shops and paint spraying plants. Depending on the design, the filter mats are impregnated with dust adhesive, which leads to an optimum separation efficiency when painting. Depending on the type, the filter mats are reinforced on the clean air side with a fabric respectively net to increase stability and to protect against dust penetration. The classification is carried out in accordance with DIN EN 779.

Voigt-Glass Fiber Filter Mats are compressed on the clean air side and thereby guarantee storage of the paint resp. dust particles over the full depth of the material. The dust-air side in the case of these filter mats is marked in color (yellow or green). The filter mat "Dust Stop yellow" is additionally treated with an antibacterial dust bonding agent and is used for the separation of dry dusts. The filter mat "Paint Stop green" is particularly suitable for separating paint mist. The classification is carried out in accordance with DIN EN 779.

Voigt-Activated Carbon Filter Mats are used for the adsorption of gas- and vaporous air pollution, which can be harmful for humans, animals and plants. When using activated carbon filter mats, it should be ensured that there is a low flow velocity, so that the contact time of the contaminated air with the filter mat is sufficiently long guaranteed.



Our Air Filter Mats are available as rolls. They can also be made as cuts or stamped parts according to your description, sketches or drawings. Especially the coarse dust filter mats can be sewn according to customer specifications.

Applications

- ✓ air-technical systems / equipment
- ✓ switchboards
- ✓ pre- and fine filters for paint shops
- ✓ pre- and fine filters for paint spraying plants
- ✓ pre- and fine filters for drying plants
- ✓ air conditioners
- ✓ pneumatic devices, compressors
- ✓ fans
- ✓ extractor hoods
- ✓ vacuum cleaner filters



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Reserve is made to technical modification
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5.500

Air Filter Mats

Coarse dust filter mats

article name	filter class	material thickness (mm)	basis weight (g/m ²)	average separation (%)	initial differential pressure (Pa)	roll length (m)	roll width (mm)
SY PE 85-010/LF	G2	5	100	65-80	20	40	2000
SY PE 85-015/LF	G2	10	150	65-80	25	40	2000
SY PE 85-030/LF	G3	20	200	80-90	35	20	2000
SY PE 85-050/LF	G4	22	220	≥ 90	35	20	2000
SY PE 85-033/LF	G4	30	350	≥ 90	60	20	2000
SY PE 85-044/LF	G4	40	400	≥ 90	60	20	2000
SY PE 85-055/LF	G4	50	450	≥ 90	65	20	2000
SY PE 85-011/LF	G3	10	120	82	20	50	2050
SY PE 85-040/C/LF	G4	20	400	92	50	21	1120

For all coarse dust filter mats we recommend a final differential pressure of 250 Pa, a nominal volume flow of 5.400 m³/h/m² and a flow velocity of 1.5 m/s.

Fine dust filter mats

article name	filter class	thickness (mm)	basis weight (g/m ²)	average efficiency at 0,4 µm (%)	initial differential pressure (Pa)	roll length (m)	roll width (mm)
SY PE 85-032/LF	F5	15	300	40-60	15	20	2000
SY PE 85-042/LF	F5	20	400	40-60	20	20	2000
SY PE 85-052/LF	F5	25	500	40-60	25	20	2000
SY PE 85-062/LF	F5	25	650	40-60	30	20	2000

For all fine dust filter mats we recommend a final differential pressure of 450 Pa, a nominal volume flow of 900 m³/h/m² and a flow velocity of 0.25 m/s.

Glass fiber filter mats

article name	filter class	thickness (mm)	basis weight (g/m ²)	average separation (%)	dust storage capacity (g/m ²)	initial diff. pressure (Pa)	roll length (m)	roll width (mm)
Paint Stop 2" green	G2	50	210	90 - 95	---	6 - 30	20 / 25	2000
Paint Stop 3" green	G3	70	240	93 - 97	---	7 - 40	20 / 25	2000
Paint Stop 4" green	G4	100	350	98 - 99	---	14 - 60	20 / 25	2000
Dust Stop 1" yellow	G2	25	110	76	550	35	20	2000
Dust Stop 2" yellow	G3	50	220	85	750	50	20	2000
Dust Stop 4" yellow	G4	100	360	92	1000	60	20	2000

Activated carbon filter mats

article name	thickness (mm)	basis weight (g/m ²)	activated carbon layer (g/m ²)	adsorption surface (m ² /g)	initial diff. pressure (Pa)	roll length (m)	roll width (mm)
AKM-100	14	1000	700	1000 - 1200	6	20	1000



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