

# THE FILTER MAT A3/300 S



## THE FINE FILTER MAT FOR REFINED APPLICATIONS

FILTER TYPE	FILTER CLASS TO ISO 16890	FILTER CLASS TO EN 779:2012
A3/300 S	ISO ePM10 50%	M5



### The application

The A3/300 S filter mat is a popular option for high quality final filtration in ventilation equipment and systems, and as a prefilter in multi-stage air intake systems.

### The media and its characteristic features

- The mat is made of high performance nonwoven produced inhouse from polyester fibers with thermal bonding. These fibers are elastic and break-resistant, so that no fiber fragments are passed into the clean air, and the original nonwoven structure is retained over the entire operational life.
- The filter medium is progressive in structure, with layers of differing fiber diameters being arranged behind each other so as to ensure that the density of the fiber layers increases towards the clean air side. This optimizes the defined filter performance and the dust holding

capacity, resulting in longer useful lifetime for the filter concerned.

- **Fire behaviour:** Viledon® filter media satisfy the stringent requirements of Fire Class F1 according to DIN 53438 and are thus self-extinguishing.
- **Certified quality:** The A3/300 S filter mat has been tested according to EN 779 and ISO 16890 and is manufactured under our certified quality management system to ISO 9001. This offers all users the reassuring certainty that all filters will be supplied in consistently high standardized quality, documented by marking the filter mat with brand name, type designation, and filter class.

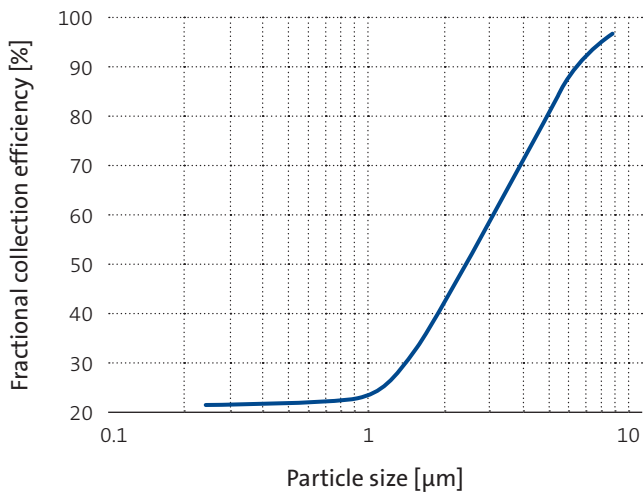
### The special features of the A3/300 S

- The specially smoothed surface of the clean-air-side increases the rigidity of the filter mat, rendering it correspondingly sturdy and installation-friendly.
- Thanks to its very good arrestance performance, the A3/300 S filter mat is a versatile product for use in all fields where high quality filtration of fine dust is demanded for protecting staff and machinery.

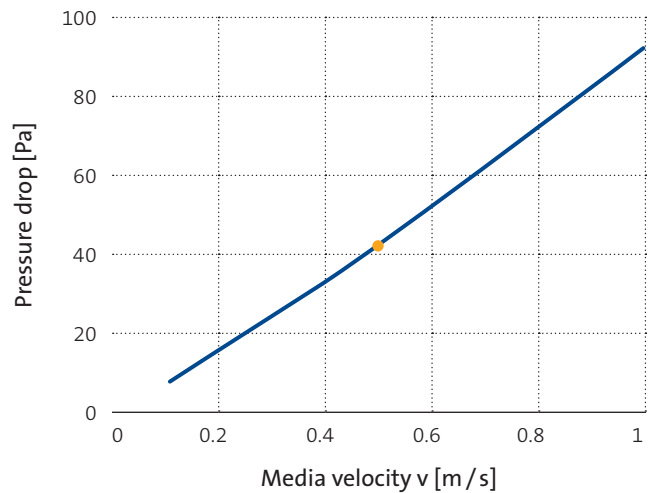
GEOMETRIES AVAILABLE		A3/300 S
Nominal media velocity	m/s	0.5
Weight, approx.	g/m <sup>2</sup>	300
Thickness, approx.	mm	20
Thermal stability	°C	up to 100
Moisture-resistance (rel. hum.)	%	up to 100
Supplied as rolls, useful width/length	mm/m	2,000/20
Supplied as cut pieces/rolls	mm	to customer's specification

# TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

Fractional collection efficiency curve



Initial pressure drop curve



— A3/300 S    ● Media velocity

**Test conditions:** Media velocity: 0.5 m/s, Test aerosol: DEHS, Measuring instrument: scattered-light laser particle counter

KEY DATA		A3/300 S
Examination surface	m <sup>2</sup>	1
Nominal media velocity ●	m/s	0.5
Initial pressure drop	Pa	65
Class to ISO 16890		ISO ePM10 50%
Particulate matter efficiency		
ISO ePM1		2
ISO ePM2,5	%	10
ISO ePM10		51
Cut-off particle size	µm	10
Filter class to EN 779:2012*		M5
Recom. final pressure drop**	Pa	450
Dust holding capacity approx. AC fine up to 300 Pa	g/m <sup>2</sup>	550

\* As part of the EUROVENT Certification, rated at 0.25 m/s

\*\*For cost-efficiency or system-specific reasons it may be appropriate to change the filters before reaching the final pressure drop stated. It can also be exceeded in certain applications.

The figures given are mean values subject to tolerances due to the normal production fluctuations. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.