The filter mat A 3/300 S

The fine filter mat for refined applications

viledon®

Filter type	Filter class	Nominal media velocity [m/s]	Test standard
A 3/300 S	M5	0.25	EN 779

EUROVENT CERTIFIED PERFORMANCE AIR FILTERS CLASS M5 – F9 www.eurovent-certification.com

F1

The application

The A 3/300 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 medium 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 F 1 according to DIN 53438 and are thus **self-extinguishing**.
- **Certified quality:** The A 3/300 S filter mat has been **tested according to EN 779** 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 A 3/300 S

- The specially **smoothed surface** of the clain-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.

Available geometries		A 3/300 S
Weight, approx.	g/m²	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

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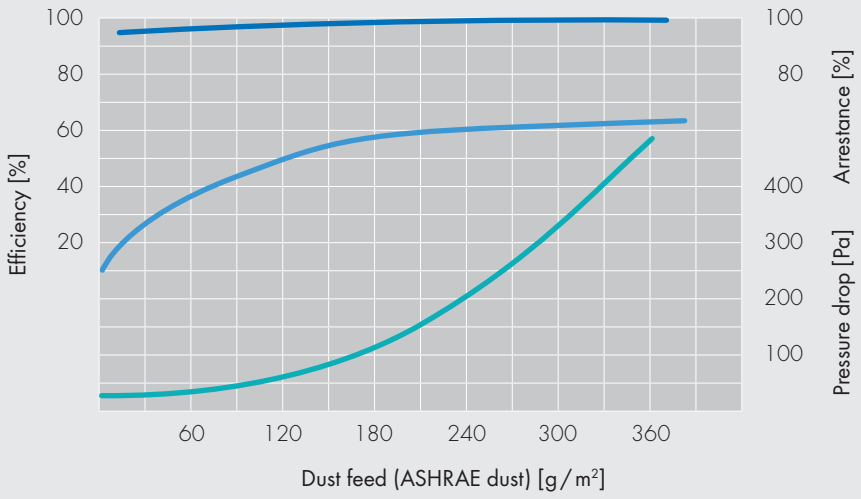
Technical filter test data to EN 779

Arrestance, efficiency and pressure drop
plotted against dust feed at nominal media velocity

Arrestance —
Efficiency —
Pressure drop —

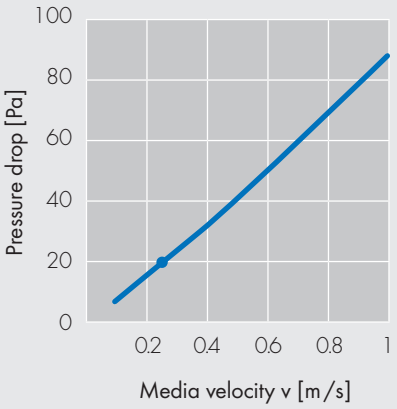
A 3 / 300 S



Pressure drop curve
plotted against the media velocity

Nominal media velocity ●
A 3 / 300 S —

A 3 / 300 S



Key data		A 3 / 300 S
Effective filtering area	m^2	1
Average arrestance A_a	%	97
Average efficiency E_a	%	46
Nominal media velocity ●	m / s	0.25
Initial pressure drop	Pa	20
Final pressure drop*	Pa	450
Dust holding capacity	g / m^2	330

The figures given are mean values, subject to tolerances due to normal production fluctuation. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. Subject to technical alterations.

* For cost-efficiency or system-specific reasons, it may be appropriate to change the filters before reaching the final pressure drop stated. Exceeding those limits may also be possible in certain applications.

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