

# The A 3/300 S:

## The fine filter mat for refined applications

### Filter class F 5



**viledon**<sup>®</sup>

#### 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 F1 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.

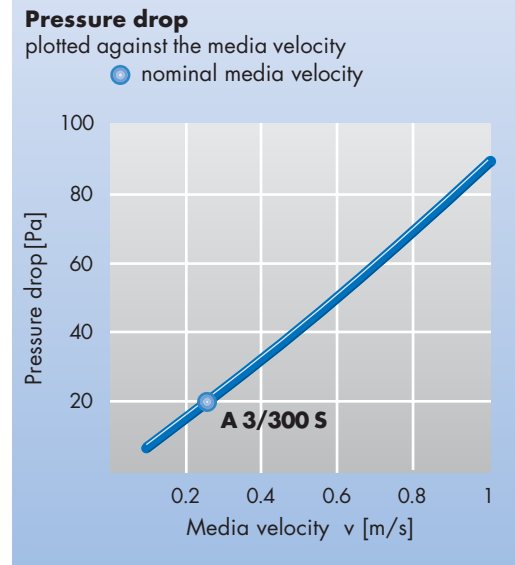
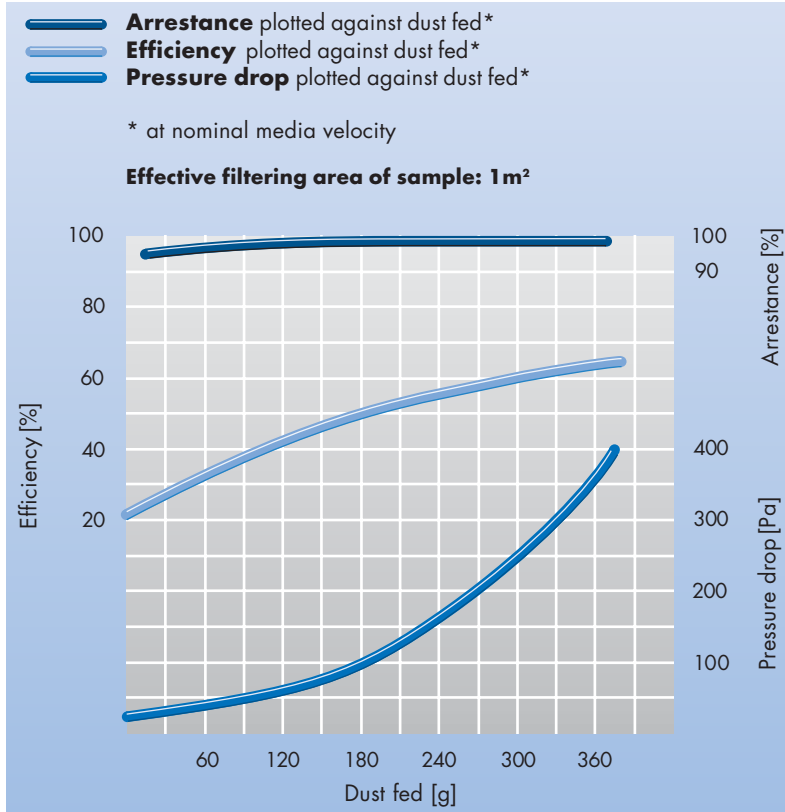
A 3/300 S		
▶ Weight, approx.	g/m <sup>2</sup>	300
▶ Thickness, approx.	mm	20
▶ Thermal stability	°C	up to 100
▶ Moisture resistance, rel. humidity	%	up to 100
▶ Supplied as rolls, useful width/length	mm/m	2000/20
▶ Supplied as cut pieces	mm	to customer's specification

#### The special features of the A 3/300 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.

**Freudenberg**

# Technical filter test data in accordance with EN 779



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.

You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.

Subject to technical alterations.

A 3/300 S			
▶ Average arrestance	A <sub>a</sub>	%	97
▶ Average efficiency	E <sub>a</sub>	%	46
▶ Nominal media velocity	●	m/s	0.25
▶ Initial pressure drop		Pa	20
▶ Final pressure drop*		Pa	450
▶ Dust holding capacity		g/m <sup>2</sup>	330

\* For cost-efficiency or system-specific reasons it may be appropriate to change the filters before reaching the stated final pressure drop.

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