

FILTER MATS OF THE PSB SERIES

THE CLASSIC FILTER MATS

FILTER TYPE	FILTER CLASS	NOMINAL MEDIA VELOCITY [m/s]	TEST STANDARD
PSB/145S	G2	2	EN 779
PSB/275S	G3	1.5	EN 779
PSB/290S	G4	1	EN 779



The application

The PSB series comprises the following filter mats

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

PSB filter mats are used for intake air filtration in all kinds of ventilation systems, particularly for coarse dust arrestance and as prefilter stages.

The media and their characteristic features

- The mats are made of **high performance nonwovens produced inhouse from elastic, break-resistant polyester fibers with thermal bonding.**
- PSB/275S and PSB/290S are **progressive** in structure, with layers 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:** PSB filter mats have been **tested according to EN 779** and are 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 PSB series

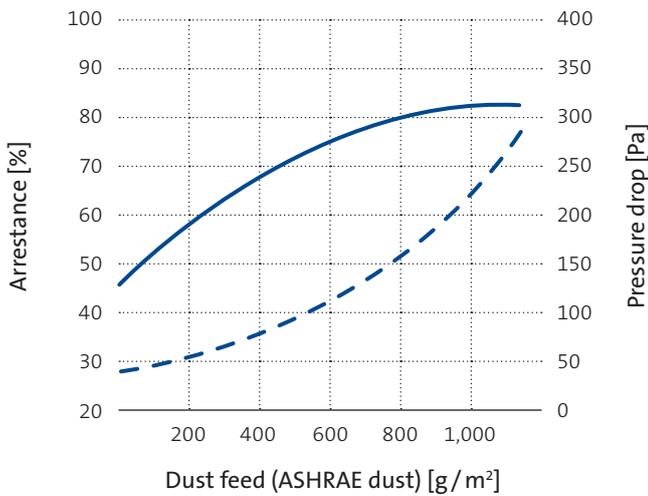
- Due to their **high dust holding capacity** and their **resultant long useful lifetimes**, PSB filter mats are **particularly cost-efficient.**
- All types of this series are especially effective in applications requiring **stable arrestance in spite of high dust loading and high air flow rates.**
- When used in exhaust air filtration, the advantage of the PSB series is that **arrestance and dust holding capacity** are very well harmonized.

GEOMETRIES AVAILABLE		PSB/145S	PSB/275S	PSB/290S
Weight approx.	g/m ²	120	180	300
Thickness, approx.	mm	10	15	20
Thermal stability	°C	up to 100		
Moisture-resistance (rel. hum.)	%	up to 100		
Supplied as rolls, useful width/length	mm/m	2,000/40	2,000/30	2,000/40
Supplied as cut pieces/rolls	mm	to customer's specification		

TECHNICAL FILTER TEST DATA TO EN 779

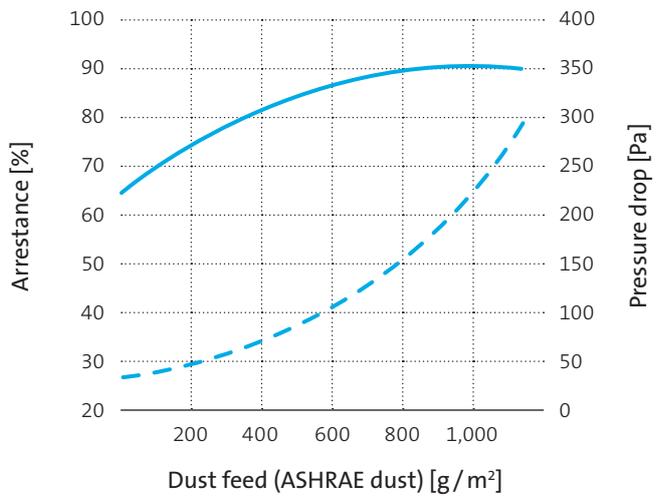
Arrestance and pressure drop plotted against dust feed at nominal media velocity

PSB / 145 S



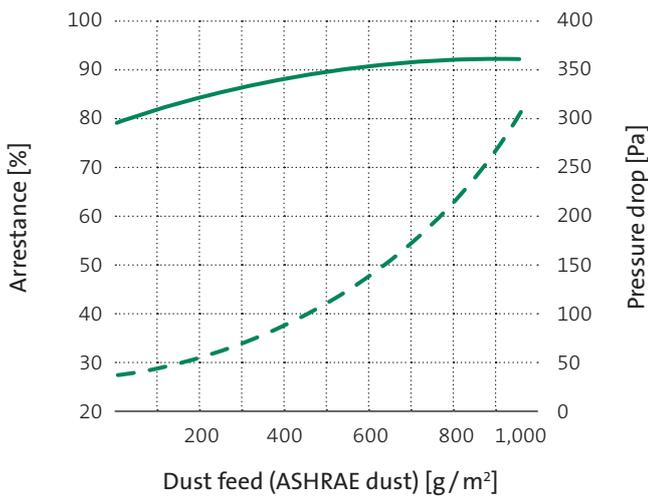
— Arrestance - - - Pressure drop

PSB / 275 S



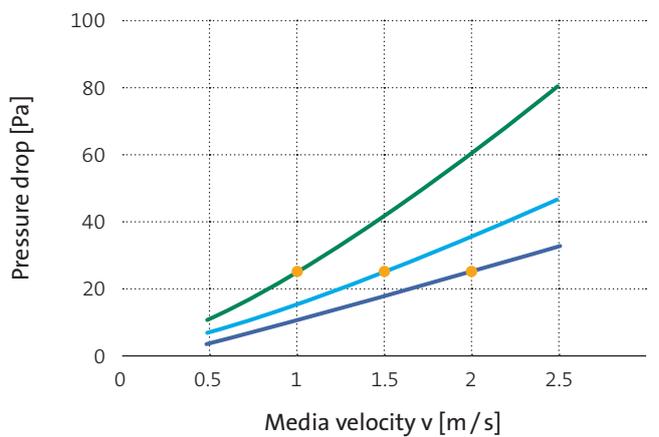
— Arrestance - - - Pressure drop

PSB / 290 S



— Arrestance - - - Pressure drop

Pressure drop curves plotted against the media velocity



— PSB / 145 S — PSB / 290 S
— PSB / 275 S ● Nominal media velocity

KEY DATA		PSB / 145 S	PSB / 275 S	PSB / 290 S
Examination surface	m ²		0.37	
Nominal media velocity	● m/s	2	1.5	1
Initial pressure drop	Pa		22	
Average efficiency	E _a %	< 20		
Initial arrestance	A _i %	70	83	91
Final pressure drop*	Pa		250	
Dust holding capacity	g / m ²	600	700	750

* 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.