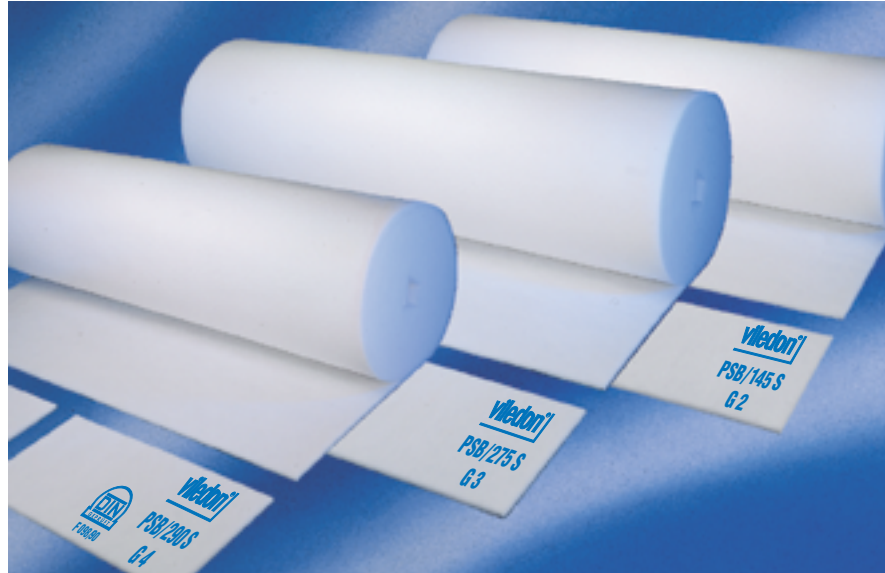


# The PSB series: The classic filter mats Filter classes G 2 - G 4



Coarse filtration	
<b>PSB/145 S</b>	
<b>EU 2</b> DIN 24 185	<b>G 2</b> EN 779
<b>PSB/275 S</b>	
<b>EU 3</b> DIN 24 185	<b>G 3</b> EN 779
<b>PSB/290 S</b>	
<b>EU 4</b> DIN 24 185	<b>G 4</b> EN 779



## The application

The PSB series comprises the following types:

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

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

## The media and their characteristic features

- ▶ The mats are made of **high performance non-wovens produced inhouse** from elastic, break-resistant polyester fibers with thermal bonding.
- ▶ PSB/275 S and PSB/290 S are **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:** PSB filter mats have been **impartially (type-)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, as well as DIN mark of conformity plus model validation number for PSB/290 S.

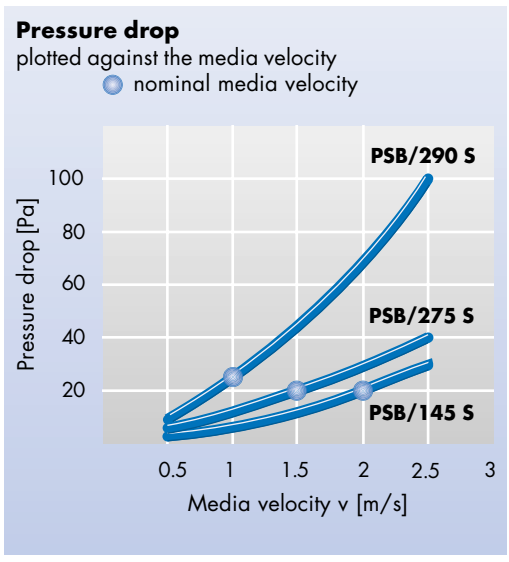
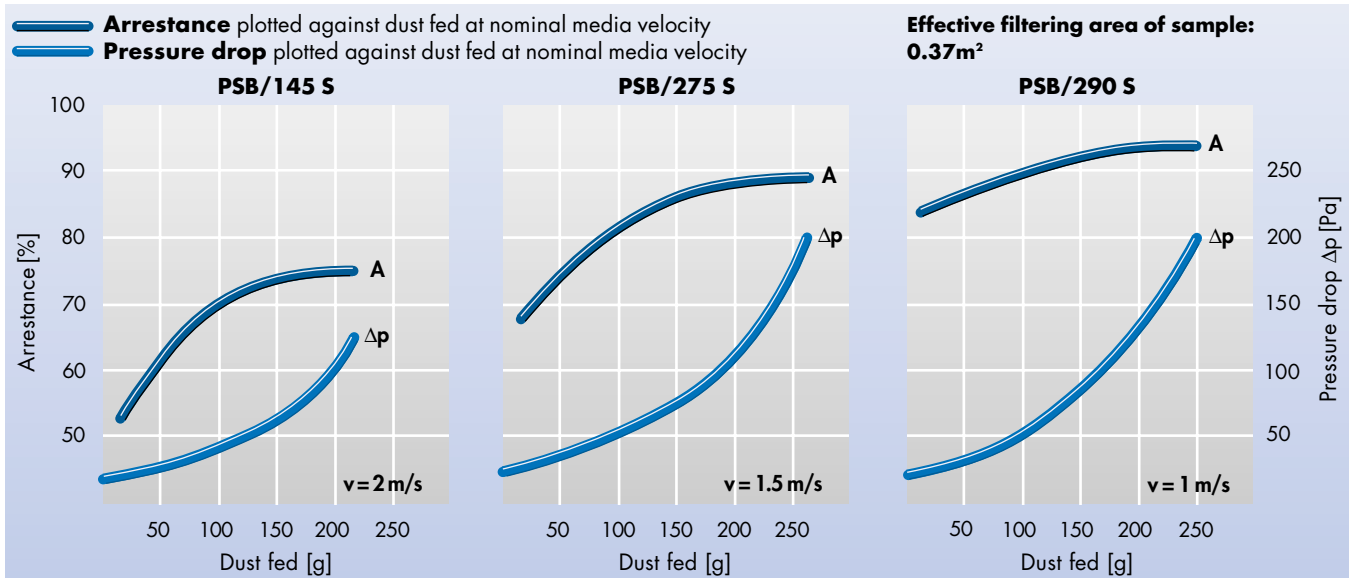
		<b>PSB/145 S</b>	<b>PSB/275 S</b>	<b>PSB/290 S</b>
▶ Weight, approx.	g/m <sup>2</sup>	120	180	300
▶ Thickness, approx.	mm	10	15	20
▶ Thermal stability	°C	up to 100	up to 100	up to 100
▶ Moisture resistance, rel. humidity	%	up to 100	up to 100	up to 100
▶ Supplied as rolls, useful width/length	mm/m	2000/40	2000/20	2000/20
▶ Supplied as cut pieces	mm	Pieces cut to customer's specification		

## 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**.



# Technical filter test data in accordance with EN 779



			<b>PSB/145 S</b>	<b>PSB/275 S</b>	<b>PSB/290 S</b>
▶ Average arrestance	A <sub>a</sub>	%	67	83	91
▶ Initial efficiency	E <sub>i</sub>	%	< 20	< 20	< 20
▶ Nominal media velocity		m/s	2	1.5	1
▶ Initial pressure drop		Pa	20	20	25
▶ Recommended final pressure drop		Pa	125	200	200
▶ Dust holding capacity		g/m <sup>2</sup>	400	600	620

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.

