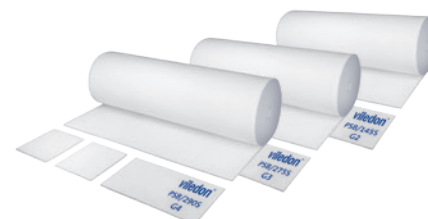


# FILTER MATS OF THE PSB SERIES

## THE CLASSIC FILTER MATS

| FILTER TYPE | FILTER CLASS TO ISO 16890 | FILTER CLASS TO EN 779:2012 |
|-------------|---------------------------|-----------------------------|
| PSB/145 S   | ISO coarse 30%            | G 2                         |
| PSB/275 S   | ISO coarse 45%            | G 3                         |
| PSB/290 S   | ISO coarse 60%            | G 4                         |



### The application

The PSB series comprises the following filter mats

- 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 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/275 S and PSB/290 S 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 ISO 16890** 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.

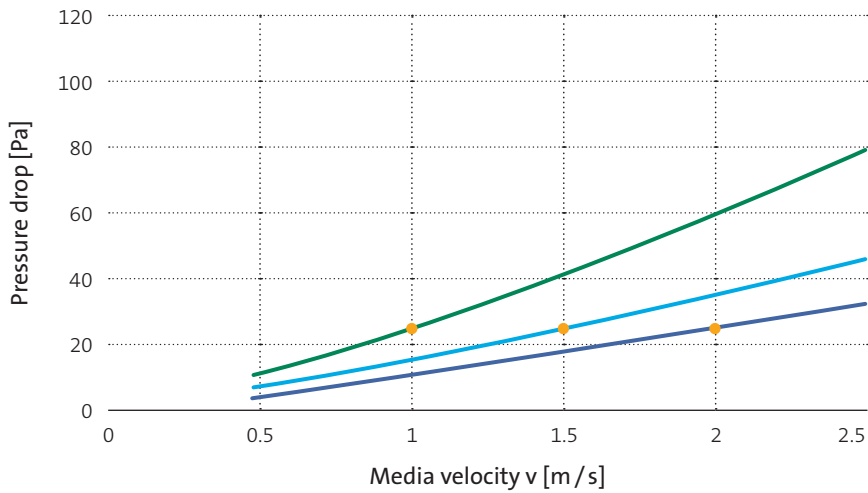
### The special features of the PSB series

- 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/145 S                   | PSB/275 S  | PSB/290 S  |
|--|------------------|-----------------------------|------------|------------|
| Nominal media velocity                   | m/s              | 2                           | 1.5        | 1          |
| Weight, approx.                          | g/m <sup>2</sup> | 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 / 20 |
| Supplied as cut pieces / rolls           | mm               | to customer's specification |            |            |

# TECHNICAL FILTER TEST DATA TO EN 779 AND ISO 16890

## Initial pressure drop curves



— PSB/145 S    — PSB/275 S    — PSB/290 S    ● Media velocity

| KEY DATA  |                  | PSB/145 S      | PSB/275 S      | PSB/290 S      |
|---|------------------|----------------|----------------|----------------|
| Examination surface                                   | m <sup>2</sup>   |                | 0.37           |                |
| Nominal media velocity ●                              | m/s              | 2              | 1.5            | 1              |
| Initial pressure drop                                 | Pa               |                | 22             |                |
| Class to ISO 16890                                    |                  | ISO coarse 30% | ISO coarse 45% | ISO coarse 60% |
| Initial arrestance                                    | %                | 30             | 45             | 62             |
| Filter class to EN 779:2012                           |                  | G2             | G3             | G4             |
| Recom. final pressure drop*                           | Pa               |                | 250            |                |
| Dust holding capacity approx.<br>AC fine up to 200 Pa | g/m <sup>2</sup> | 500            | 700            | 750            |

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

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.