

# The P 15 series: The ultra-durable filter mats Filter classes G 2 - G 4



Coarse filtration	
<b>P 15/150 S</b>	
<b>EU 2</b> DIN 24 185	<b>G 2</b> EN 779
<b>P 15/350 S</b>	
<b>EU 3</b> DIN 24 185	<b>G 3</b> EN 779
<b>P 15/500 S</b>	
<b>EU 4</b> DIN 24 185	<b>G 4</b> EN 779



## The application

The P15 series comprises the following familiar and yet continually enhanced Viledon filter mats:

- ▶ P 15/150 S
- ▶ P 15/350 S
- ▶ P 15/500 S

All the types in this series are tough, high performance products, suitable for filtration in all kinds of ventilation systems. P 15/500 S is also used for high quality pre-filtration of intake air in paint spray booths.

## The media and their characteristic features

- ▶ The mats are made of high performance non-wovens produced inhouse from elastic, break-resistant polyolefine fibers with thermal bonding.
- ▶ P 15/350 S and P 15/500 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 53 438 and are thus self-extinguishing.
- ▶ Certified quality: P15 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, filter class, and DIN mark of conformity plus model validation number.

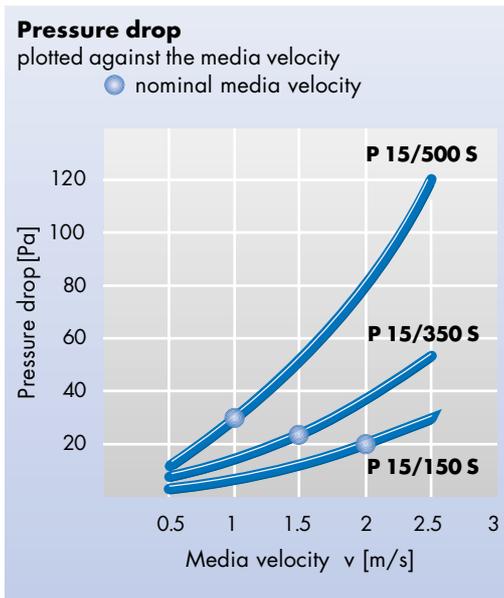
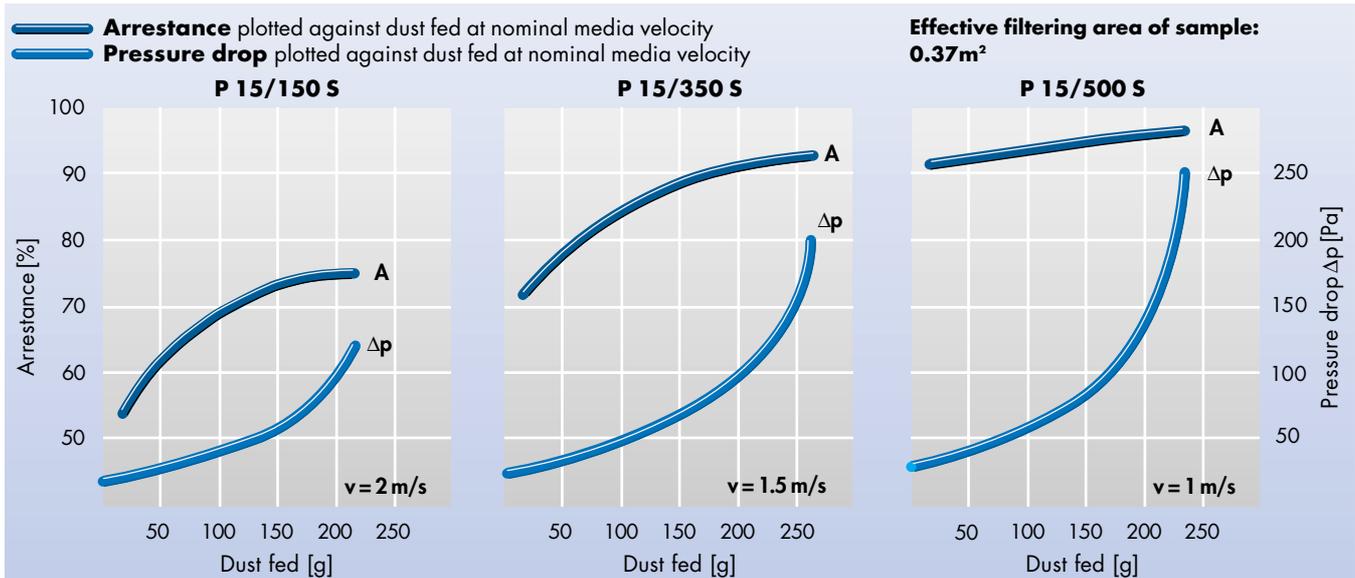
		P 15/150 S	P 15/350 S	P 15/500 S
▶ Weight, approx.	g/m <sup>2</sup>	100	200	350
▶ Thickness, approx.	mm	8	14	20
▶ Thermal stability	°C	up to 100	up to 100	up to 100
▶ Moisture resistance, rel. humidity	%	up to 100	up to 100	up to 100
▶ Supplied as rolls, useful width/length	mm/m	2000/40	2000/30	2000/20
▶ Supplied as cut pieces	mm	Pieces cut to customer's specification		

## The special features of the P 15 series

- ▶ High arrestance throughout their entire useful lifetime, thus providing maximized operational reliability.
  - ▶ The high mechanical strength of the material used offers good dimensional stability throughout the operational lifetime, even when handling large air volumes, thus ensuring dependable operation of the filter system concerned.
  - ▶ Thanks to the polyolefine fibers used in the medium, P 15 filter mats are widely resistant to chemicals like solvents, acids and alkalis.
  - ▶ The filter mats are cleanable by washing, beating or spraying, and can then be used again. Even after washing, the filter mats remain dimensionally stable, thus retaining their technical filtering properties. The fire class remains unaltered.
- Our environment-friendly filter series for users interested in avoiding waste and cutting their filter costs.



# Technical filter test data in accordance with EN 779



			<b>P 15/150 S</b>	<b>P 15/350 S</b>	<b>P 15/500 S</b>
▶ Average arrestance	$A_a$	%	67	85	94
▶ Initial efficiency	$E_i$	%	< 20	< 20	< 20
▶ Nominal media velocity	●	m/s	2	1.5	1
▶ Initial pressure drop	$P_a$		20	25	30
▶ Recommended final pressure drop	$P_a$		125	200	250
▶ Dust holding capacity		g/m <sup>2</sup>	380	600	600

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.