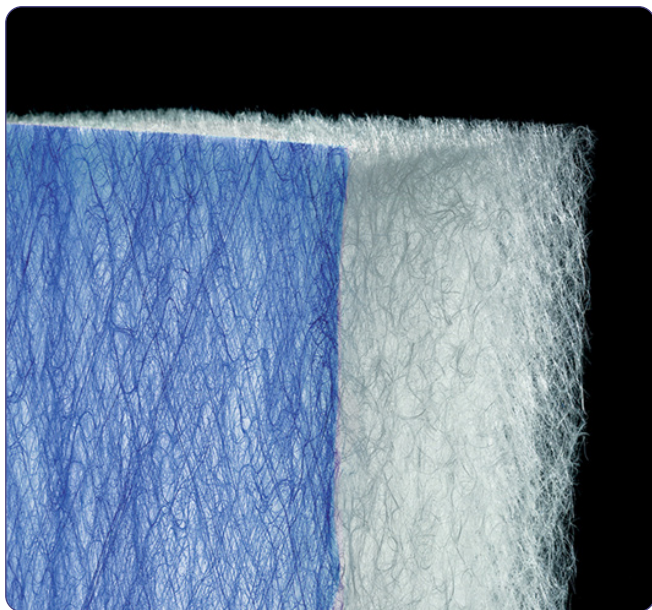


filtering nonwovens



MIST COLLECTOR

ISO 16890 Class:	ISO Coarse 50%
*Final pressure drop derived from the filter test standard:	200 Pa
EN 779:2012 Class:	G3
*Final pressure drop derived from the filter test standard:	250 Pa
Thickness:	75 mm
Average effectiveness based on tests with water droplets (3-4 µm):	99,8%
Air flow rate:	2,5 m/s
Initial pressure drop:	47 Pa
Max. operating temperature:	up to 120°C

1. 100% glass fibers
2. High humidity absorbency capacity
3. Low pressure drop
4. Long service life
5. Low operating costs
6. Flame retardant (Warr. BS 476/4)

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Filtration material: coalescing nonwoven fabric, 100% elemental glass fibers with progressively increasing density and laminated air outlet side. Impregnated with a special agent, which significantly increases its ability to absorb moisture from the flowing air. It has a very high ability to retain moisture with minimal air resistance.

Application: The high capacity to capture water droplets makes this filter widely used for protection against moisture of ventilation and air conditioning systems on land and at sea, as well as in various types of air intakes and intake systems, e.g. for gas turbines.

The values shown may vary slightly within tolerances.

* The final operating pressure drop of the filters should be checked in the technical documentation or consulted with the manufacturer of the equipment being operated.

* All technical parameters provided in this specification are for informational purposes only. Actual values may differ by up to ±10% from the stated figures. The manufacturer assumes no responsibility for any consequences arising from the selection of filters in non-standard sizes based solely on the user's own calculations.

UP TO
120°C

PCV

F1
DIN 53438

We reserve the right to make changes to the technical specifications at any time without prior notice, resulting from the continuous improvement of our products.

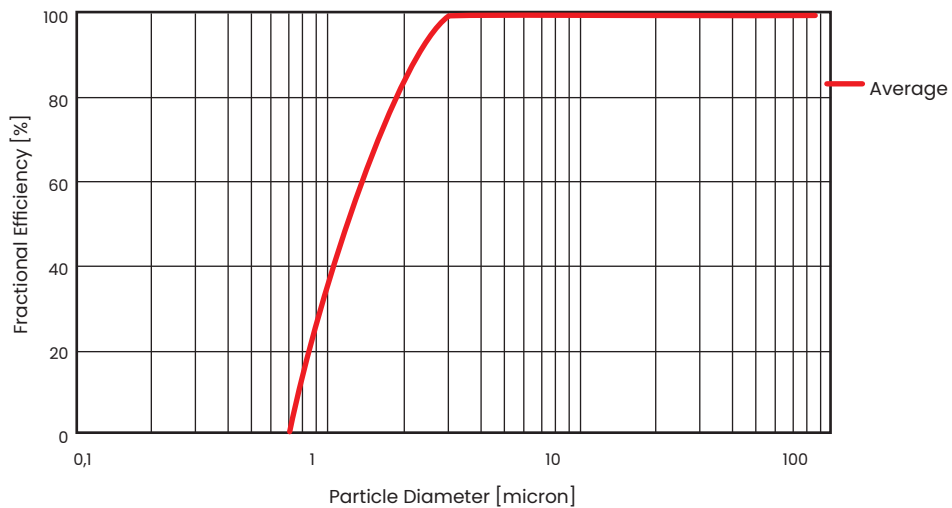
filtering nonwovens

Time Elapsed (min.)	1 min.	2 min.	3 min.	4 min.	5 min.	6 min.	7 min.	8 min.	9 min.	10 min.	Average	
Size Range (µm)	Initial Fractional Efficiency (%)											
0,2-0,3	Water Break-Up Region - no Filtration											0,0
0,3-0,4												0,0
0,4-0,6												0,0
0,6-0,8												0,0
0,8-1,0	30,8	26,9	23,1	23,0	22,4	22,2	21,8	21,3			23,9	
1,0-1,5	52,8	53,6	54,6	55,1	55,3	56,0	55,8	55,5			54,8	
1,5-2,0	72,5	76,2	76,4	76,8	76,6	76,0	74,8	77,0			75,8	
2,0-2,5	87,2	88,8	90,1	89,5	88,9	89,1	88,9	89,1			89,0	
2,5-3,0	98,3	98,6	98,7	98,6	96,9	98,1	97,8	98,3			98,2	
3-4	99,6	100,0	99,9	99,9	100,0	99,7	99,8	99,9			99,8	
4-5	99,9	99,8	100,0	99,9	100,0	99,9	99,9	100,0			99,9	
5-6	100,0	99,8	99,7	99,9	100,0	100,0	100,0	100,0			99,9	
6-8	100,0	99,8	100,0	99,9	100,0	99,9	100,0	99,9			99,9	
8-10	100% Filtration Region											100,0
10-12												100,0
12-15												100,0
15-20												100,0
20-30												100,0
30-40												100,0
40-50												100,0
50-70												100,0
70-100												100,0

$$F_{\text{eff}} = \frac{C_{\text{up}} - C_{\text{down}}}{C_{\text{up}}} \times 100\%$$

- F_{eff} Fractional Efficiency of Water Mist Collection
- C_{up} Water Particle Concentration Upstream of Filter
- C_{down} Water Particle Concentration Downstream of Filter

Fractional Efficiency versus Particle Diameter



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