



technical data sheet

RESPILON® beverage membrane

The RESPILON® beverage membrane is suitable for filtration of any beverages, oils that and liquids. The nanofiber layer inside catches particles from 0.45 to 50 µm. Unique property is to make a filtration faster and more effective.

RESPILON® beverage membrane's benefits:

- for wide range of liquids
- easy installation
- long lifetime
- captures small particles
- time and cost savings

Beverage membrane made from nanofibers can be cleaned and used repeatedly.

Technical data for RESPILON® beverage membrane product number: RBM	
Fast filtration	
Permeability	150 L . m-2 . min-1 . bar-1 (water)
Highly effective filtration	
The particle capture rate	5–50 µm
Packing 10 pcs¹⁾	
Membrane dimensions	20×43 cm / 40×86 cm

¹⁾ Available also in filtration bag as well as cartridge form in different sizes.

The indications are average results. They are subject to usual variation in production. These indications are given as per our knowledge for information about our products. These indications cannot be used as a fixed promise.

Installation instructions for RESPILON® beverage membrane into desk filters

1] The membrane thickness is ~1.1 mm, standard cellulose desks used in desk filters have thickness of 2–4 mm depending on manufacturer.

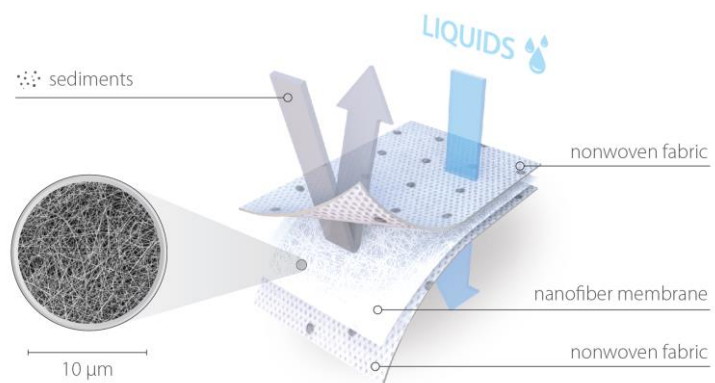
The difference in thickness of filtration materials needs to be compensated by changing the sealing on filtration frames of desk filters.

2] After changing the sealing the installation of membrane into desk filter can be performed. The membrane is bent over the filtration frame, one membrane therefore replaces two standard cellulose desks. If the panel filter is constructed for an odd number of cellulose panels, membrane can be cut to half and used on odd frame. The membrane does not have rough and smooth sides like standard cellulose desks have, therefore an extra caution during insertion of the membrane into the filter is NOT required, filtrated product can flow through the membrane from either side.

3] The membrane has significantly lower pressure drop and therefore it increases performance of the desk filter. Small thickness of the membrane requires high quality and precise design of the filtration frames. It is possible that filtrated product will drop through into the tray of the filter. This effect does not have any influence on the performance of the filter and the quality of the filtration. Product in the filter tray must be re-filtrated.

4] The membrane allows filtration with very low working pressure of 0.1 bar in the desk filter. If the working pressure in the desk filter increases over

1.8 bar, an interruption of filtration is necessary. Remove the membrane from the filter. Remove the filter cake from the surface of the membrane. Insert the membrane back to the filter and continue in the process of filtration. The clogged impurities are rinsed with water (40° – 60° C) after finish of filtration. The membrane is ready for further filtration.



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