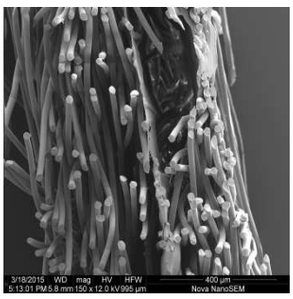
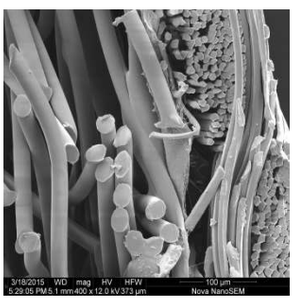
Nanovia Clean Air filtration membranes



Textile laminates in the product group Nanovia Clean Air filter media are used to clean the air.

• **textile laminates for industrial air filtration** according to EN 779 : 2012 , efficiency class F8 - F9 and according to EN 1822 : 2009 , class efficiency E10 - E12 (designation Nanovia Filter F8 - E12)



• **laminates for spontaneous window ventilation** (labeled Nanovia Clean Air) to permit cleaning air passing from the external into the internal environment. These laminates are suitable for installation in windows or other ventilation openings in the flats, houses or offices

• **materials for vacuum cleaner bags**

Materials Nanovia Filter F8-E12 can be pleated or weld as other textile filter materials. It can be used for the production of filter cartridges, pocket or bag filters. Material combination is modifiable with regard to the requirements of thermal, mechanical and chemical resistance.

Membrane Nanovia Clean Air is designed primarily as a barrier against pollen and dust in the air for applications in windows and ventilation systems. Material is able to prevent the penetration of dust and pollen particles, bacteria and fungal spores from outside. However, the membrane is very permeable to air, gases and steam.

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Filtration membranes capacity in all types of filtration material provides a nanofiber layer which is enclosed within the membrane. Technically are membranes Nanovia Clean Air three-layer or multi-layer laminate composed of nonwoven spunbond or meltblown and nanofiber layer. Consistency is ensured by lamination techology.

Possible applications of membranes Nanovia Filter

Filter media with nanofibrous layer providing the desired filtration efficiency according to a lower pressure drop or a higher permeability material. It positively affects energy consumption associated with the operation of the filter unit.

Materials can be used for producing *pleated or pocket filters*.

Filter media with nanofibrous can be preferably used for the production of *filters with pulse regeneration / cleaning*. Nanofiber laminates have high efficiency, high degree of regeneration with repeated knocking and durability.

Possible applications of the membrane Nanovia Clean Air

Membranes Nanovia Clean Air were developed for use in windows to filter airborne dust, pollen and mold spores from the environment into the interiors of residential and office buildings, apartments and accommodation facilities. The membrane can be used for systems:

• Fixed window barriers installed in the window and door frames with a professional company

• Adhesive window barriers installed in window and door frames at home application

Filter laminates Nanovia Clean Air NW 60 are available to customers in the form of footage in the role, wound on paper empty tube diameter of 76 mm. Material is supplied in white color, width of the material after cropping edges is 155 cm.

On Nanovia cutting technology is possible to prepare the desired width of the windings intended for direct processing into pleeting or welding machines.

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