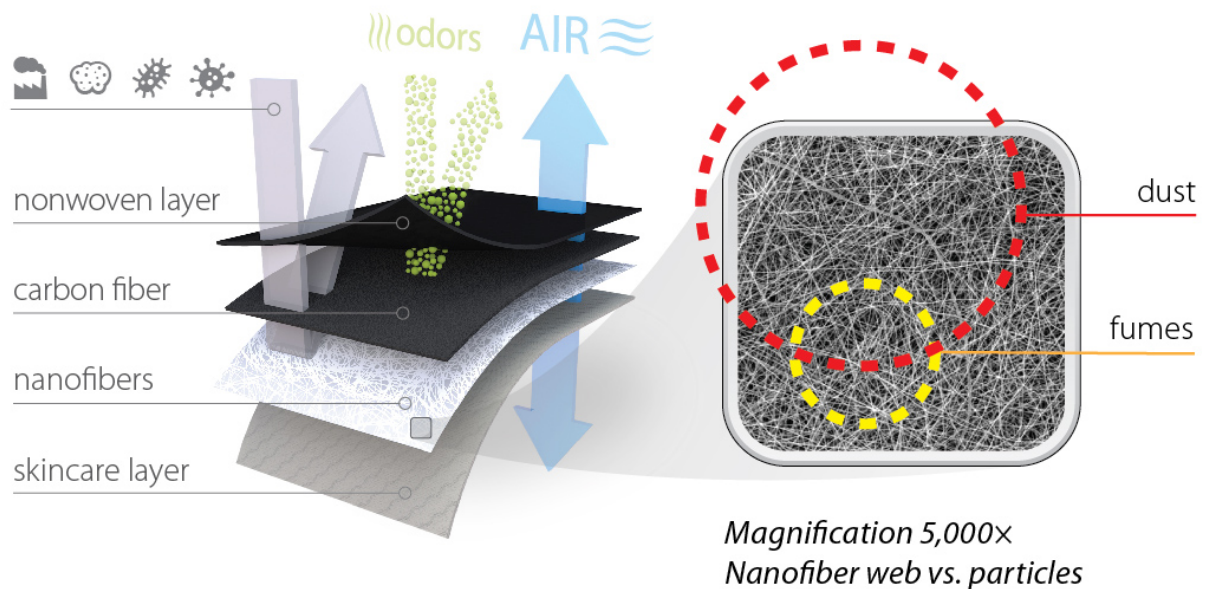


Technical Data Sheet R-MASK

The R-MASK was specially developed for fashion and protective use. The unique combination of filtering materials provides reliable protection under the toughest conditions, at work in the field and in emergency situations. R-MASK protects health and life of the user and guarantees optimal conditions for work while being uncommonly breathable. Thanks to the active carbon layer, it also brings a new level of comfort because of capturing unpleasant odors of any origin.

Composition and functionality of R-MASK Carbon



Layer	Composition	Functionality
Outer cover layer (25 g/m ²)	Black nonwoven (Polypropylene – PP)	Warming, covering
Carbon fiber (45 g/m ²)	Active carbon	Capturing of odors and gases
Nanofiber membrane RESPILON RNF	Polyamide 6 (PA6)	Filtration of solid particles (smog, dust, pollen, etc.) and microorganisms (viruses, bacteria)
ES fiber (20 g/m ²)	Polyethylene and Polypropylene (PE/PP)	Better comfort while using R-Mask longer time

Performance

The R-MASK meets the protective level FFP2 according to EN 149:2009.

Physical properties	Reading	Unit
Filtration efficiency NaCl	98.39	%
Filtration efficiency DESH	98.70	%
Inhalation resistance @ 30 l/min	33	Pa
Inhalation resistance @ 95 l/min	112	Pa
Exhalation resistance	174.7	Pa

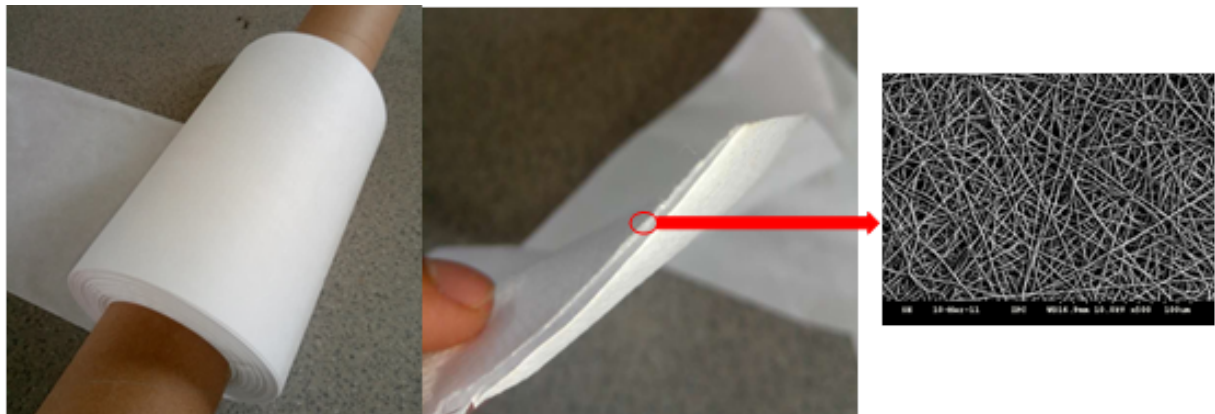
Nanofiber filter

The key filtrating functionality of R-MASK is provided by the nanofiber membrane RESPILON® RNF:

Outer layer: PP meltblown 19 g/m² (MB)

Inner layer: Nanofiber layer of polymer PA6 (polyamide 6) (NF)

Outer layer: PP spun bond 24 g/m² (SB)



Physical properties: RESPILON® RNF	Reading	Unit	Testing Method
Area weight	54	g/m ²	
Filtration efficiency @ 0.26 µm NaCl	≥98.78	%	0.26 µm NaCl aerosol (CMD0.075µm), 85L/min, TSI8130
Filtration efficiency @ 0.3µm DESH	≥95.67	%	0.3 µm DESH or other oil particles (CMD0.185µm), 85L/min, TSI8130
Breathability	110	ΔP (Pa/cm ²)	
Skin irritability	0	-	EN ISO 10993-1

RESPILON® RNF material was tested in accordance with GBT32610-2016 standard. Particles protection effect of RNF was Grade A according to GBT32610-2016, and particles protection effect of RNF was KN95 according to GB2626-2006.

Face fit and shape

R-MASK is anatomically shaped and is available in different sizes to fit the shape of the user's face perfectly. In the part that touches the nose, R-MASK has a metal nose clip which ensures a clean seal in this critical area. Thanks to this unique combination of a protective element and shape, the dangerous particles cannot penetrate around the mask and, therefore, there is no risk of irritation or endangering of respiratory organs. The half mask is equipped with elastic rubber ear loops that are fixed behind the ears. It is also possible to use the plastic ear hook to achieve the best face fit.

R-MASK design

