



LIFE'S WORTH IT

# PRODUCT PRESENTATION

RESPILON has been helping people  
from all over the world  
to live better and healthier lives  
since 2013.



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## NANOFIBERS:

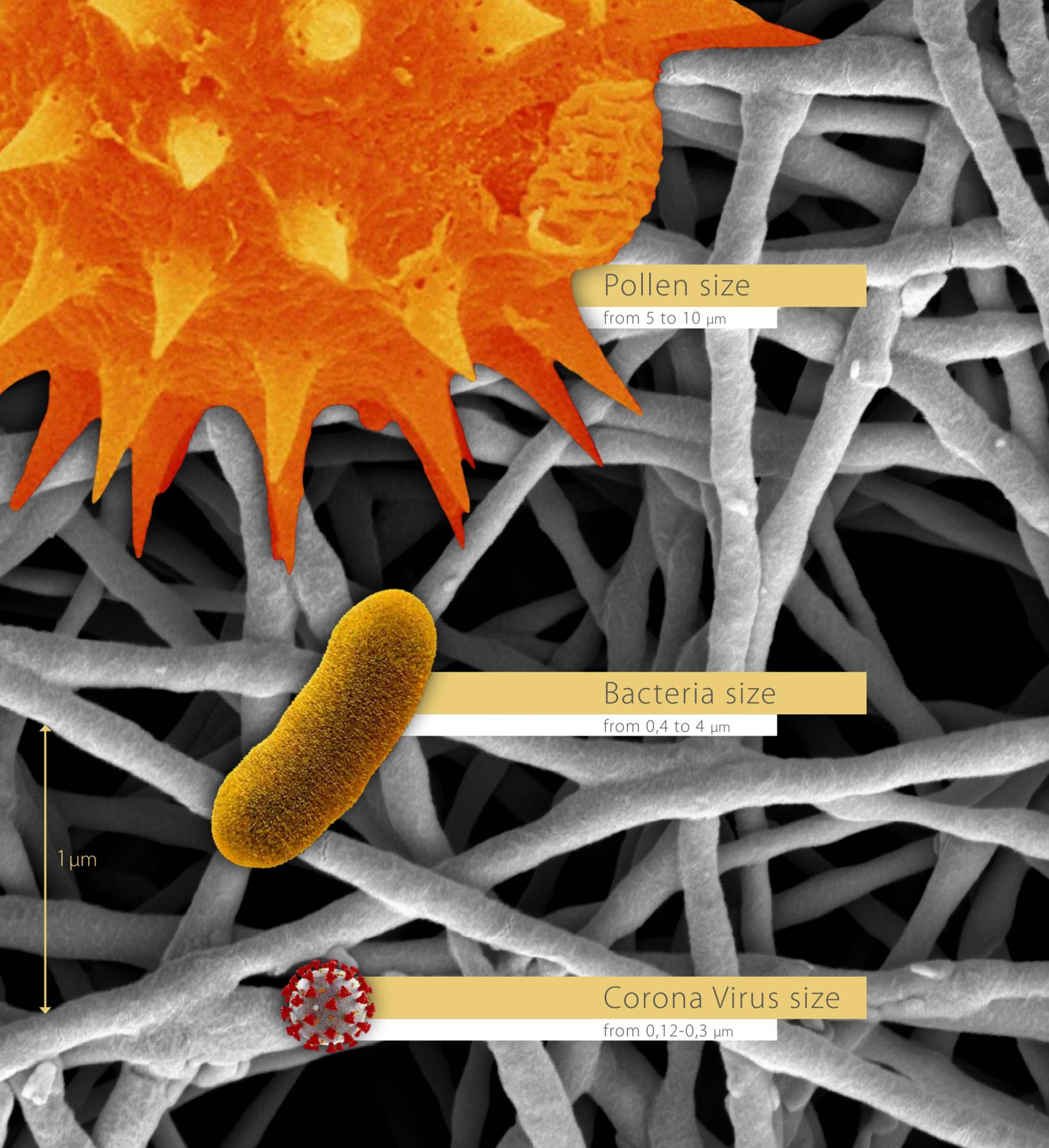
Nanofibers are very long thin fibers in diameter between 0.00005 - 0.000075 millimeters.

When they are arranged in a dense net then it is possible to benefit from their miniscule dimensions and their large surface because then they work as a super fine filter and high performance membrane.

Nanofiber filters can filter out pathogens or pollutants, effectively deliver chemical substances at desired places or manufacture apparel membranes of superior performance.



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Pollen size  
from 5 to 10 μm

Bacteria size  
from 0,4 to 4 μm

Corona Virus size  
from 0,12-0,3 μm

# PRODUCTS:

## Respiratory protection:

- RespiPro White
- Respiraptor
- RespiPro Carbon
- VK RespiPro
- VK RespiRaptor
- R-shield

## Membranes:

- Apparel Membranes
- Shoe Membranes
- Coverall Membranes
- Cosmetic Membranes

## Filters:

- Nanofiber AC Filter
- Window Filter
- Adjustable Windows Filter

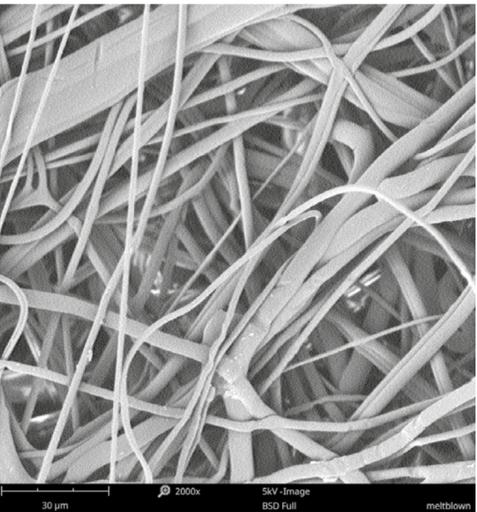


# RESPIRATORY PROTECTION

# RESPIRATOR FILTER EXPERTISE:

## PP Meltblown Filters

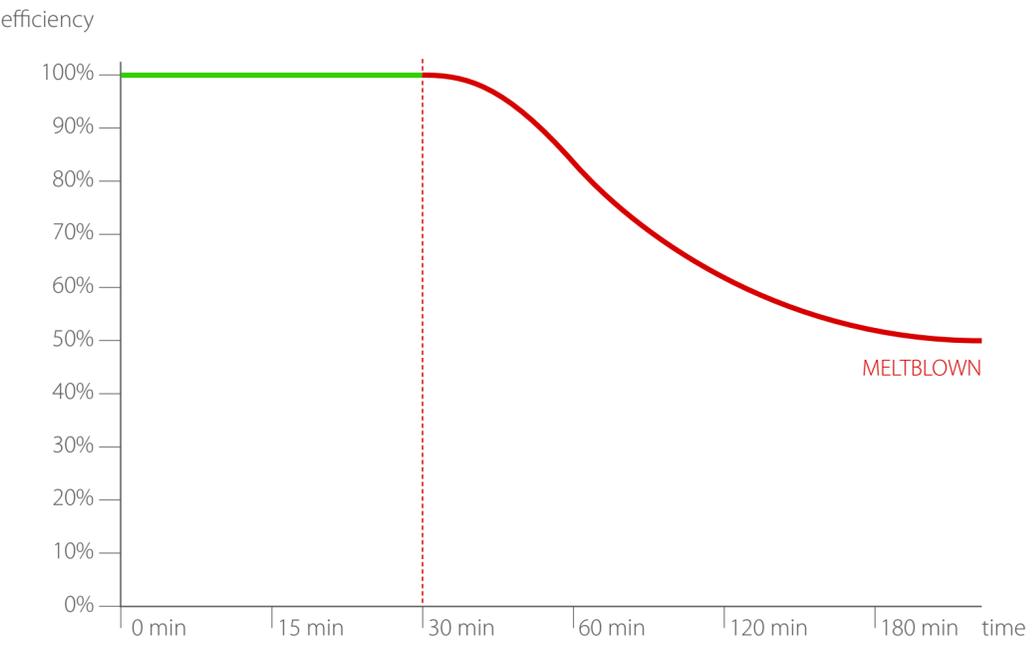
99% of respirator producers



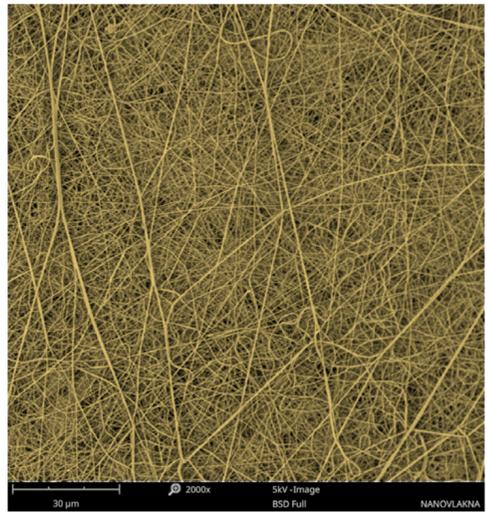
ZOOM 2000x

30 µm

Filtration of Meltblown Filter when humidity is higher than 65%



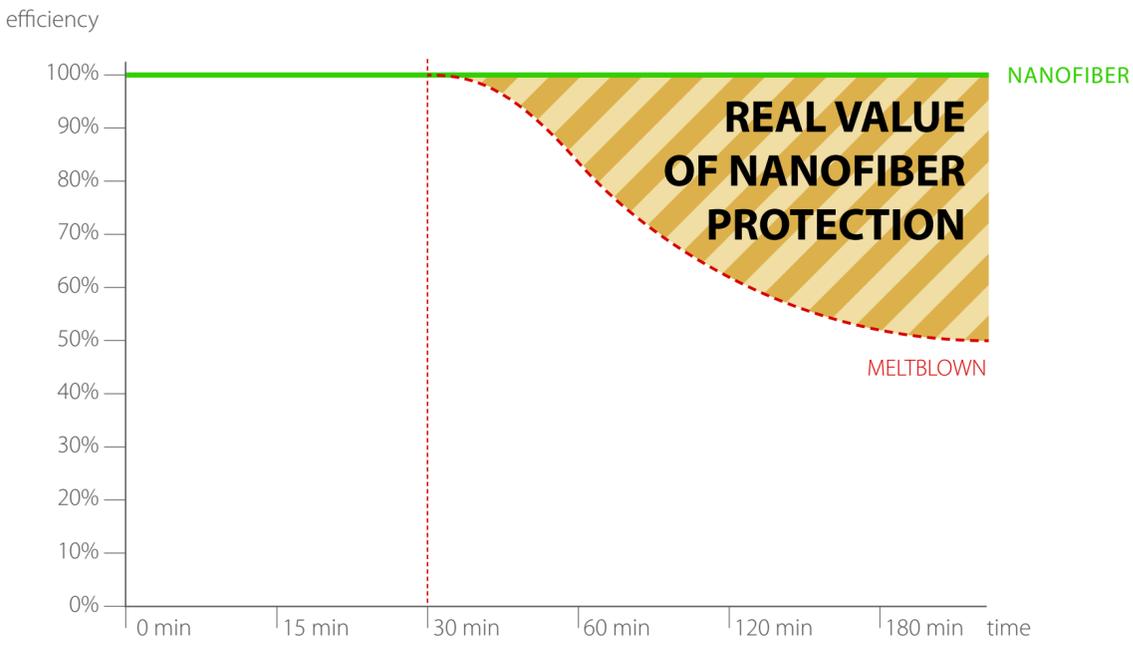
## RESPILON® Nanofiber Filters



ZOOM 2000x

30 µm

Filtration of Nanofiber Filter when humidity is higher than 65%



Human breath humidity is higher than 98% and just by wearing it you lower the efficiency of the respirator.



#respilonfeather

Respi  Pro<sup>®</sup>  
WHITE

Certified FFP2 NR Respirator with Nanofiber Filter Inside



Unique RESPILON<sup>®</sup> nanofiber filter inside



Perfect face fit and excellent breathability



Incredibly light weight >3,9g



Fully certified EN149 FFP2 respirator



It comes in Large and Medium sizes



It comes in a 3 pack bag and in a 25 pack box



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Respi  Pro<sup>®</sup>  
WHITE

Certified FFP2 NR Respirator with Nanofiber Filter Inside



3 pcs bag



25 pcs box

## BENEFITS:

- ✓ RESPILON<sup>®</sup> nanofiber membrane which captures 99,7–99,9 % of viruses and airborne particles
- ✓ It's unique ergonomic shape fits most faces perfectly
- ✓ Extremely lightweight respirator (weight only 3,9 g)
- ✓ Ideal protection in public transport, on trains, buses, planes, at work, when shopping or at the doctor's
- ✓ FFP2 NR certified respirator in accordance with the standard EN 149:2001+A1:2009
- ✓ Adjustable nose clip ensures that no air leaks in, around the respirator circuit



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# RespiRaptor®

Certified FFP2 NR Respirator with Nanofiber Filter Inside



Unique RESPILON® nanofiber filter inside



Perfect face fit for large faces and excellent breathability



Ideal for people with beard



Incredibly light weight >4,2g



Fully certified EN149 FFP2 respirator



It comes in one universal size that fits Large and Medium



It comes in a 1 pack bag



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RespiRaptor®

Certified FFP2 NR Respirator with Nanofiber Filter Inside



1 pcs bag



25 pcs box

## BENEFITS:

- ✓ Designed for people with a beard, with glasses and large faces
- ✓ “Fish type” shape for easy and clear communication
- ✓ RESPILON® nanofiber membrane which captures 99,7–99,9 % of viruses and airborne particles
- ✓ Ideal protection in public transport, on trains, buses, planes, at work, when shopping or at the doctor’s
- ✓ USA FDA approved
- ✓ Excellent face fit and breathability
- ✓ Certified FFP2 respirator in accordance with EN 149:2001+A1:2009



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Respi  Pro<sup>®</sup>  
CARBON

Certified NR FFP2 Respirator with carbon layer



The carbon layer eliminates bio and chemical odors



Unique RESPILON<sup>®</sup> nanofiber filter inside



Incredibly light weight >5,4g



Perfect face fit and breathability



Fully certified EN149 FFP2 respirator



It comes in Large and Medium sizes



It comes in 3 pack bag



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Respi  Pro<sup>®</sup>  
CARBON

Certified NR FFP2 Respirator with carbon layer



3 pcs bag

## BENEFITS:

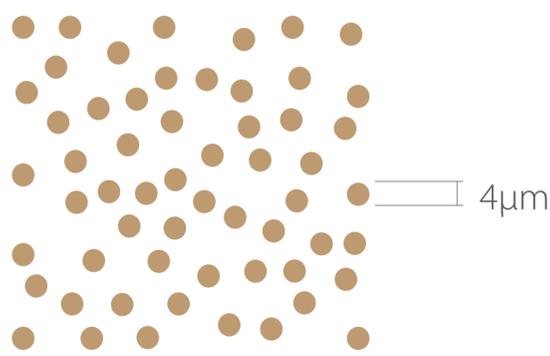
- ✓ Eliminates unpleasant odors and most VOC's
- ✓ Designed for use in areas where it is not possible to vent and different kinds of odors and smells are present
- ✓ Ideal protection in public transport, on trains, buses, planes, at work, when shopping or at the doctor's
- ✓ RESPILON<sup>®</sup> nanofiber membrane blocks out 99,7–99,9 % of viruses
- ✓ Its unique ergonomic shape fits most faces perfectly
- ✓ Certified FFP2 Respirator in accordance with EN 149:2001+A1:2009
- ✓ Sizes Large and Medium



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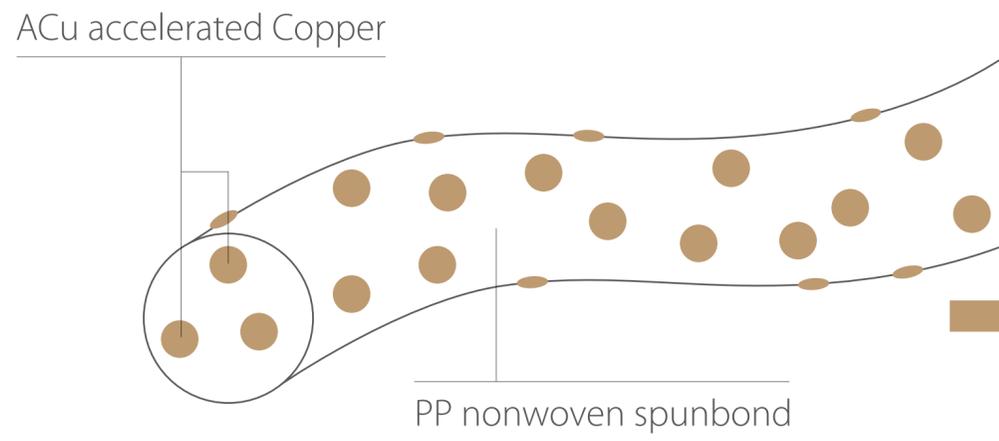
# REVOLUTIONARY SELF-STERILIZING TECHNOLOGY: Against viruses and bacteria

## ACu powder



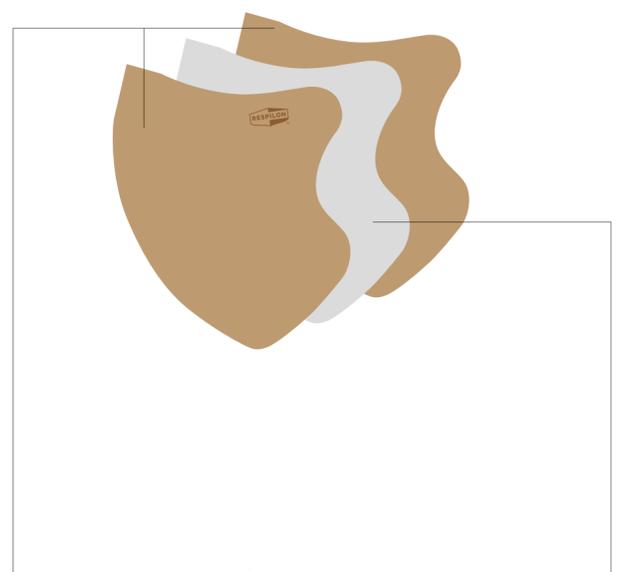
Accelerated copper (ACu) is a special patented process when regular copper compounds are turned into compounds that are fast and highly effective against the multiplication of different kinds of pathogens as viruses, yeasts, molds, bacteria. The functionality has no expiration. ACu is a micro-particles powder which have average diameter of 4µm.

## PP nonwoven finer with ACu



ACu particles are contained in the PP nonwoven spunbond to avoid releasing and enable a fast unlimited virus deactivating effect in any environment and under any conditions

## Composition of Nanofiber mask with ACu



PP nonwoven enriched with ACu deactivates Corona virus and other pathogens from both sides of the mask

RESPILON® nanofiber filter acts as a mechanical barrier against Corona virus

# ACu IS UNIQUE: Compared to other anti pathogen solutions

SILVER	ZINC	COPPER
<p><b>Silver works against:</b></p> <p>Bacteria ✓</p> <p>Virus ✗</p> <p>Fungi ✗</p>	<p><b>Zinc works against:</b></p> <p>Bacteria ✗</p> <p>Virus ✗</p> <p>Fungi ✓</p>	<p><b>Copper works against:</b></p> <p>Bacteria ✓</p> <p>Virus ✓</p> <p>Fungi ✓</p>
<p>It is hardly effective against viruses in its normal state but can be made to be effective only when in nanosize. The problem then is that it runs into severe environmental and regulatory issues. Silver oxidizes in a few minutes and then it will not be effective against viruses.</p>	<p>Zinc is effective against fungi but it is very poor against bacteria. It is effective against most cold viruses which would include the Corona virus family but you would need a very large amount of zinc in order to be effective.</p>	<p>Acelerated Copper is highly effective against bacteria, viruses and also fungi even if oxidized.</p>

All metal oxidizes when in touch with oxygen (O2) and humidity.





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# VK Respi Pro<sup>®</sup>

Self-sterilizing FFP2 respirator with Accelerated Copper



Revolutionary accelerated copper technology for virus and pathogens deactivation



1 respirator is recommended for 168 cumulative hours of protection



Unique RESPILON<sup>®</sup> nanofiber filter inside with viral filtration efficiency >99,7%



Incredibly light weight >3,7g



Perfect face fit and excellent breathability



Fully certified EN149 FFP2 respirator



It comes in Large and Medium sizes



It comes in a 2 pack bag and box and in a 10 pack box



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VK Respi  Pro<sup>®</sup>

Self-sterilizing FFP2 respirator with Accelerated Copper



2 pcs bag



2 pcs box



10 pcs box

## BENEFITS:

- ✓ Can be used repeatedly for 168 hours of protection without any maintenance
- ✓ Accelerated copper for the immediate deactivation of viruses, bacteria, molds, yeasts and other pathogens
- ✓ RESPILON<sup>®</sup> nanofiber membrane which captures 99,7–99,9 % of viruses
- ✓ Ergonomic shape for perfect fit and breathability
- ✓ New generation of elastic ear loops for better comfort
- ✓ Sizes Large and Medium
- ✓ Certified FFP2 respirator in accordance with the EN 149:2001+A1:2009



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# VK RespiRaptor®

Self-sterilizing FFP2 respirator with Accelerated Copper



Revolutionary accelerated copper technology for virus and pathogens deactivation



1 respirator is recommended for 168 cumulative hours of protection



Unique RESPILON® nanofiber filter inside with viral filtration efficiency >99,7%



Incredibly light weight <4,4g



Ideal for people with beard



Perfect face fit and excellent breathability



Fully certified EN149 FFP2 respirator



It comes in one universal size that fits Large and Medium



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VK RespiRaptor®

Self-sterilizing FFP2 respirator with Accelerated Copper



2 pcs bag



10 pcs box

## BENEFITS:

- ✓ Can be used repeatedly for 168 hours of protection without any maintenance
- ✓ “Fish type” shape for easy and clear communication
- ✓ Accelerated copper for the immediate deactivation of viruses, bacteria, molds, yeasts and other pathogens
- ✓ RESPILON® nanofiber membrane which captures 99,7–99,9 % of viruses
- ✓ Ergonomic shape for perfect fit and breathability
- ✓ Suitable also for people with a beard or glasses
- ✓ New generation of elastic ear loops for better comfort
- ✓ One universal size L/M
- ✓ Certified FFP2 respirator in accordance with the EN 149:2001+A1:2009



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# RESPIRATORS COMPARISON:

	MELTBLOWN FILTER	NANOFIBER FILTER				
						
	Comon N95 or FFP2	Respi+ <sup>+</sup> Pro <sup>®</sup> WHITE	RespiRaptor <sup>®</sup>	Respi+ <sup>+</sup> Pro <sup>®</sup> CARBON	VK Respi+ <sup>+</sup> Pro <sup>®</sup>	VK RespiRaptor <sup>®</sup>
Filtration	✓	✓	✓	✓	✓	✓
Longtime filtration	✗	✓	✓	✓	✓	✓
Perfect facefit	✗	✓	✓	✓	✓	✓
Comfortable	✗	✓	✓	✓	✓	✓
Light & breathable	✗	✓	✓	✓	✓	✓
Virus filtration	✗	✓	✓	✓	✓	✓
Deactivates viruses	✗	✗	✗	✗	✓	✓
Protection against odors	✗	✗	✗	✓	✓	✓



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# NANOFIBER RESPIRATORS COMPOSITION:

FILTRATION	FILTRATION + ANTI ODOR	FILTRATION + VIRAL DEACTIVATION	FILTRATION + VIRAL DEACTIVATION	FILTRATION + VIRAL DEACTIVATION
				
<p>Respi  Pro<sup>®</sup> WHITE</p>	<p>Respi  Raptor<sup>®</sup></p>	<p>Respi  Pro<sup>®</sup> CARBON</p>	<p>VK Respi  Pro<sup>®</sup></p>	<p>VK Respi  Raptor<sup>®</sup></p>
				
<ul style="list-style-type: none"> <li><b>1</b> Polypropylene Spunbond (non-woven)</li> <li><b>2</b> RESPILON<sup>®</sup> nanofiber membrane Barrier against viruses, bacteria, smog, solid particles and pollen</li> <li><b>3</b> Polypropylene Spunbond (non-woven)</li> <li><b>4</b> New earloop design with improved comfort</li> </ul>	<ul style="list-style-type: none"> <li><b>1</b> Polypropylene Spunbond (non-woven)</li> <li><b>2</b> RESPILON<sup>®</sup> nanofiber membrane Barrier against viruses, bacteria, smog, solid particles and pollen</li> <li><b>3</b> Polypropylene Spunbond (non-woven)</li> <li><b>4</b> New earloop design with improved comfort</li> </ul>	<ul style="list-style-type: none"> <li><b>1</b> Polypropylene Spunbond (non-woven)</li> <li><b>2</b> Carbon layer against odors</li> <li><b>3</b> RESPILON<sup>®</sup> nanofiber membrane Barrier against viruses, bacteria, smog, solid particles and pollen</li> <li><b>4</b> Polypropylene Spunbond (non-woven)</li> </ul>	<ul style="list-style-type: none"> <li><b>1</b> Layer deactivating viruses and bacteria (ACu)</li> <li><b>2</b> RESPILON<sup>®</sup> nanofiber membrane Barrier against viruses, bacteria, smog, solid particles and pollen</li> <li><b>3</b> Layer deactivating viruses and bacteria (ACu)</li> <li><b>4</b> New earloop design with improved comfort</li> </ul>	<ul style="list-style-type: none"> <li><b>1</b> Layer deactivating viruses and bacteria (ACu)</li> <li><b>2</b> RESPILON<sup>®</sup> nanofiber membrane Barrier against viruses, bacteria, smog, solid particles and pollen</li> <li><b>3</b> Layer deactivating viruses and bacteria (ACu)</li> <li><b>4</b> New earloop design with improved comfort</li> </ul>



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**FILTERS**



# Nanofiber AC Filter



Unique RESPILON® Nanofiber Filter



Anti-microbial and deodorizing effect



Blocks out fine dust and pollen



Eliminates formaldehyde



Easy to replace when dirty



Universal for any AC



It comes in 2 sizes of retail packaging and custom sizes in rolls



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# Nanofiber AC Filter

## BENEFITS:

- ✓ Universal use for any A/C\*
- ✓ Anti-dust : Filter efficiency 83.2%  
Reduce dust in rooms and buildings located in construction or polluted areas
- ✓ Anti-microbial : Staphylococcus aureus 99.9%  
: Pneumococcus 99.9%  
Prevents transmission of airborne diseases
- ✓ Deodorization, Formaldehyde removal from new wooden floors, new furniture and biological airborne pollutants:
  - : Ammonia 99.6%
  - : Trimethylamine 99.6%
  - : Hydrogen sulfide 59.2%
  - : Methyl mercaptan 18.4%
  - : Formaldehyde 85.5%
- ✓ Safety : Organic/Inorganic Hybrid material  
: Non-toxic material

\*This filter is designed for A/C, not for air purifiers as those need a different nanofiber construction



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# Window Filter

with Nanofiber Membrane



Transparent and breathable



Unique RESPILON® nanofiber filter inside



Blocks out wildfire smoke



Blocks out smog



Blocks out fine dust



Blocks out pollen and mosquitos



Can be installed into regular mosquito frames



Can be applied into rolling systems as well



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# Window Filter

with Nanofiber Membrane

## BENEFITS:

- ✓ Window filter that can be applied to any window in a frame or in a rolling system
- ✓ Blocks out smog from a busy street and exhaust fumes from cars
- ✓ Effective filtration against wild fire smoke
- ✓ Offers a reliable capture of dust, allergens, pollen, mold spores
- ✓ Ideal choice for allergy sufferers, asthmatics, and anybody with respiratory problems
- ✓ Venting possible even in dust and construction areas
- ✓ Transparent and breathable
- ✓ Enables venting when raining as the membrane keeps the light rain out
- ✓ Reduces dust
- ✓ Mechanically blocks out air pollution
- ✓ Protects your home from insects and mites



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# Adjustable Window Filter

with Nanofiber Membrane



Fast and easy intallation on sash and sliding windows



Transparent and breathable



Unique RESPILON® nanofiber filter inside



Blocks out wildfire smoke



Blocks out smog



Blocks out fine dust



Blocks out pollen and mosquitos



It comes in 3 sizes



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### 3 DIMENSIONS

<b>S 1</b>	30 cm 11.81"	55-84 cm 21.65"-33.07"
<b>M 2</b>	50 cm 19.67"	75-140 cm 29.53"-55.12"
<b>L 3</b>	60 cm 23.62"	85-160 cm 33.46"-62.99"

# Adjustable Window Filter

with Nanofiber Membrane

## BENEFITS:

- ✓ Adjustable screen is designed for fast and simple installation on sash or sliding windows
- ✓ Blocks out smog from a busy street and exhaust fumes from cars
- ✓ Effective efiltration against wild fire smoke
- ✓ Offers a reliable capture of dust, allergens, pollen, mold spores
- ✓ Ideal choice for allergy sufferers, asthmatics, and anybody with respiratory problems
- ✓ Venting possible even in dusty areas
- ✓ Transparent and breathable
- ✓ Enables venting when raining as the membrane keeps the light rain out
- ✓ Reduces dust
- ✓ Mechanically blocks out air pollution
- ✓ Protects your home from insects and mites



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## ABOUT US:

RESPILON® is a Czech company with both domestic and international manufacturing capacity that has been active on the international market since 2013.

Respilon researchs, develops, manufactures and produces nanofiber products.

Respilon partners with the world's top manufacturers of nanofibers, with research centers and universities, and runs it's own R&D Lab to test and develop different kind of nanofiber applications from filtration to skin care solutions.

Respilon is active in the corporate social responsibility field and has built long-term cooperations with several non-profit organizations who devote their activities to people with compromised immunity, to seriously ill patients and other disabled people.

**3**

continent presence

**8**

years history

**18+**

million EUR annual revenue

**46**

export countries

Ing. Jana Zimova, MBA, CSR director; Ing. Roman Zima, CEO | Photo: Forbes



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Nanofibers are a world of innovation that turns existing or new products into superb performance no matter what industry use is discussed.

If you are passionate about Nanofibers then Respilon invites you into this world to introduce to you all the possibilities and appropriate variants for your product portfolio or custom made applications. Respilon B2B mission is to develop the product on your behalf and help you to find the proper marketing claims to market the product successfully.

Just contact Respilon to learn more.

[info@respilon.com](mailto:info@respilon.com)

[www.respilon.com](http://www.respilon.com)

9/2021