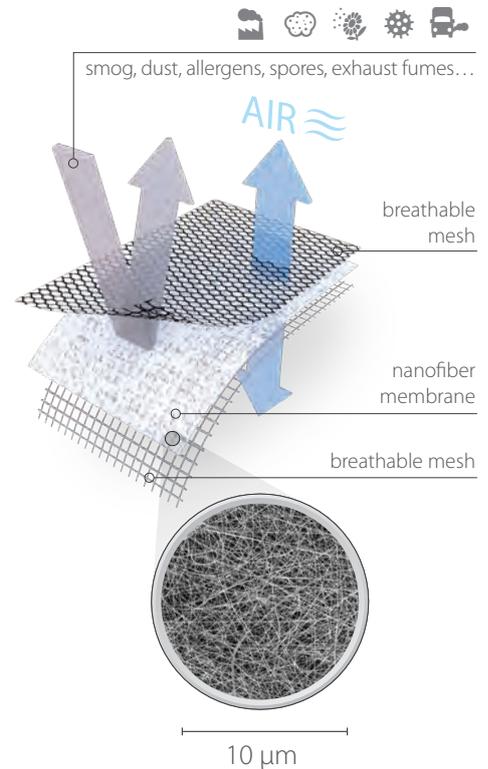




window  
membrane

Health protection and comfort  
of the 21<sup>st</sup> century



## Why is air quality becoming an increasingly discussed topic?

WHO has classified fine dust as a class 1 carcinogen.

Dust and smog endangers our health even indoors.

Most people spend 90 % of their time indoors where they should breathe clean air.

*RESPILON® gives you an excellent opportunity to present your customers with a unique solution which will provide them with a CONTINUOUS AND RELIABLE SOURCE OF CLEAN AIR.*

### VULNERABLE GROUPS

- ✓ Senior citizens
- ✓ Children
- ✓ Pregnant women
- ✓ People with respiratory problems
- ✓ People with heart disease

### BENEFITS FOR USERS

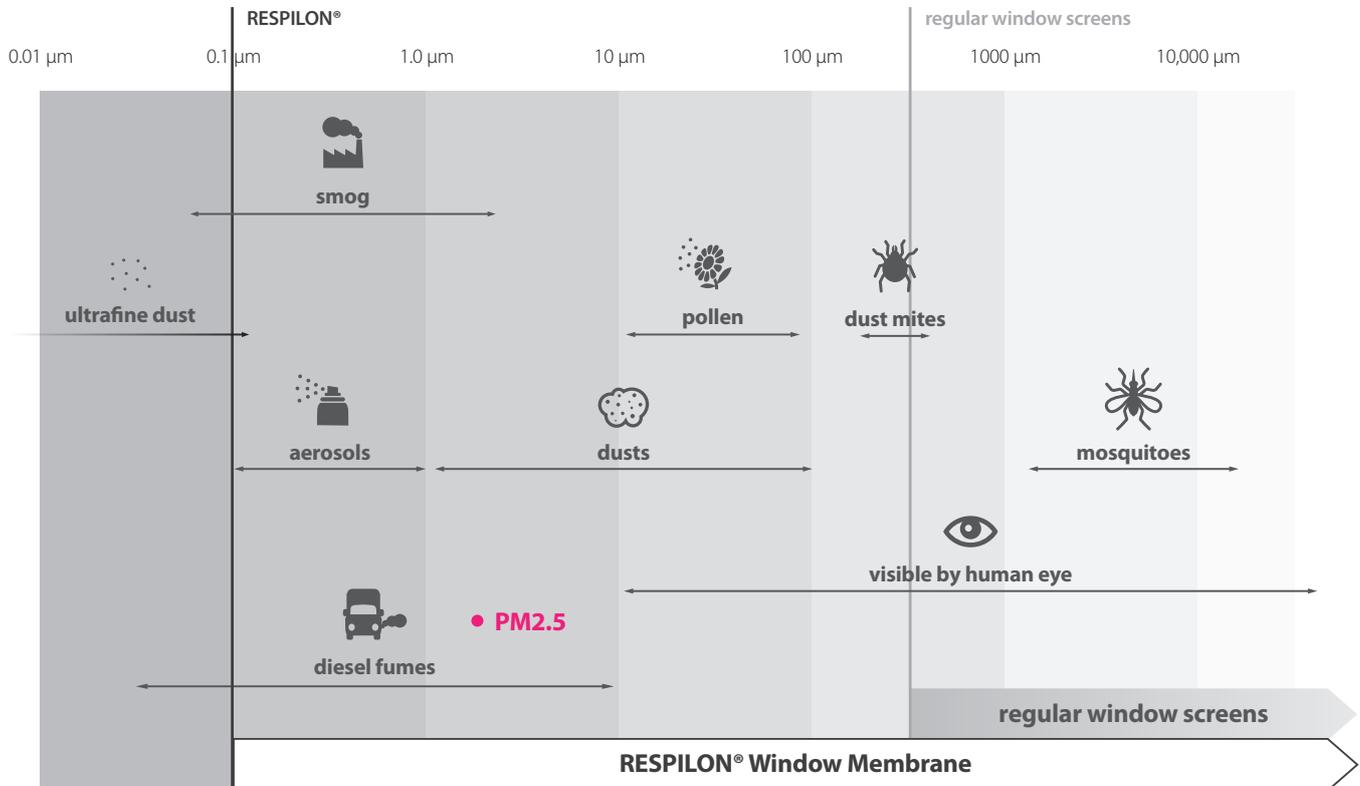
- ✓ Clean air in all conditions
- ✓ Airing possible even in dusty areas
- ✓ Saves time with dusting
- ✓ Can be used all year round
- ✓ Easy to maintain

### PROTECTION FROM

- Smog
- Dust
- Pollen particles
- Exhaust fumes
- Rain water



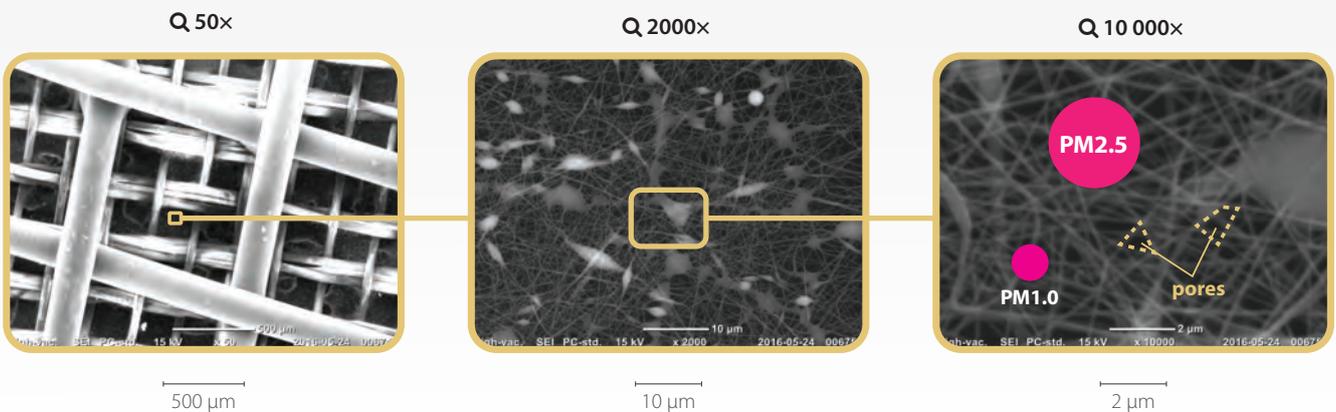
# Which particles does nanofiber membrane protect you from?



Source: Aerosol Technology – Properties, Behavior, and Measurement of Airborne Particles. William C. Hinds, 1999.



## How does RESPILON® work?



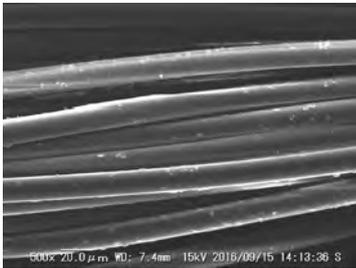
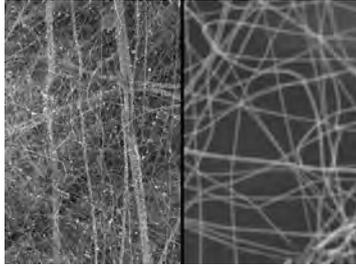
Nanofiber membrane creates a mechanical barrier which prevents the penetration of dangerous particles without using any dangerous chemical substances.



# Why choose RESPILON® window membrane over anti-pollen screens?



## Results of Independent filtration testing

	Leading competitor's anti-pollen screen	Competitor's anti-pollen screen	RESPILON® Window Membrane 5.0
Filtration efficiency: 1.0 µm particles	20.3 %	21.7 %	<b>87.46 %</b>
Filtration efficiency: 2.5 µm particles	23.0 %	28.6 %	<b>89.43 %</b>
Filtration efficiency: 5.0 µm particles	31.9 %	39.8 %	<b>94.12 %</b>
Sample:	 Q 500x	 Q 500x	 Q 500x    Q 10,000x

RESPILON Window Membrane 5.0 Efficiency was measured with the constant airflow of 1.2 l/m.



**1.0 µm = PM1.0**  
diesel fumes particle size



**2.5 µm = PM2.5**  
smog particle size



# Why choose RESPILON® window membrane over anti-pollen screens?



LIFE'S WORTH IT

	Regular window screen	RESPILON® Window Membrane
<b>Description:</b>	✗ Obsolete product, not efficient against current threats	✓ Premium product, high-tech nanofiber solution against air pollution
<b>Material:</b>	✗ Glassfiber, aluminium, steel	✓ Nanofiber, breathable mesh
<b>Filtration efficiency:</b>	✗ Fails to capture the most hazardous particles	✓ Captures even the smallest dust, smog and PM2.5 particles
<b>Toughness:</b>	✗ Vulnerable to corrosion, and more susceptible to mechanical damage	✓ Highly resistant because of solid nanofiber structure
<b>Service life:</b>	✗ Longtime exposure to external environment causes glassfiber to break down and release carcinogenic particles which are extremely dangerous to human health	✓ Polymers used in the membrane do not release any harmful substances or particles
<b>Additional effects:</b>	✗ Ineffective against UV light and rainwater	✓ Does not transmit the UV component of the light spectrum



## What do you gain by incorporating nanofiber window membrane into your portfolio?

- supplies of nanofibrous material directly from the manufacturer
- innovative product with high added value without the need to invest in new equipment
- modern technology demanded around the world
- service support with the opportunity to participate in further development and improvement
- marketing support for sales to end customers



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