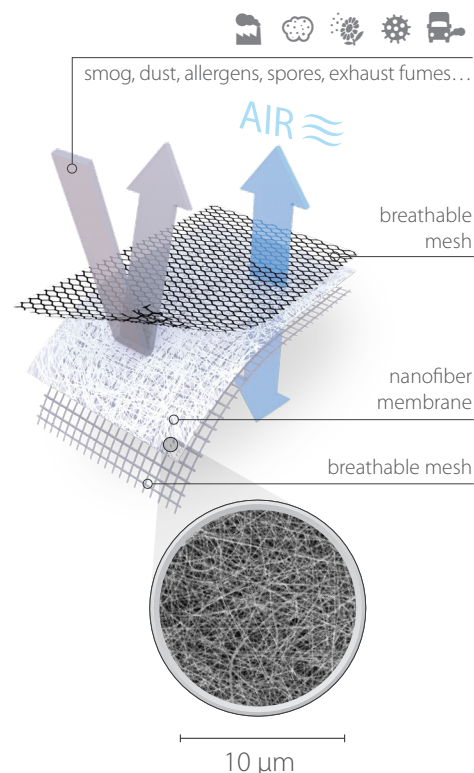




window
membrane

Health protection and comfort
of the 21st 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

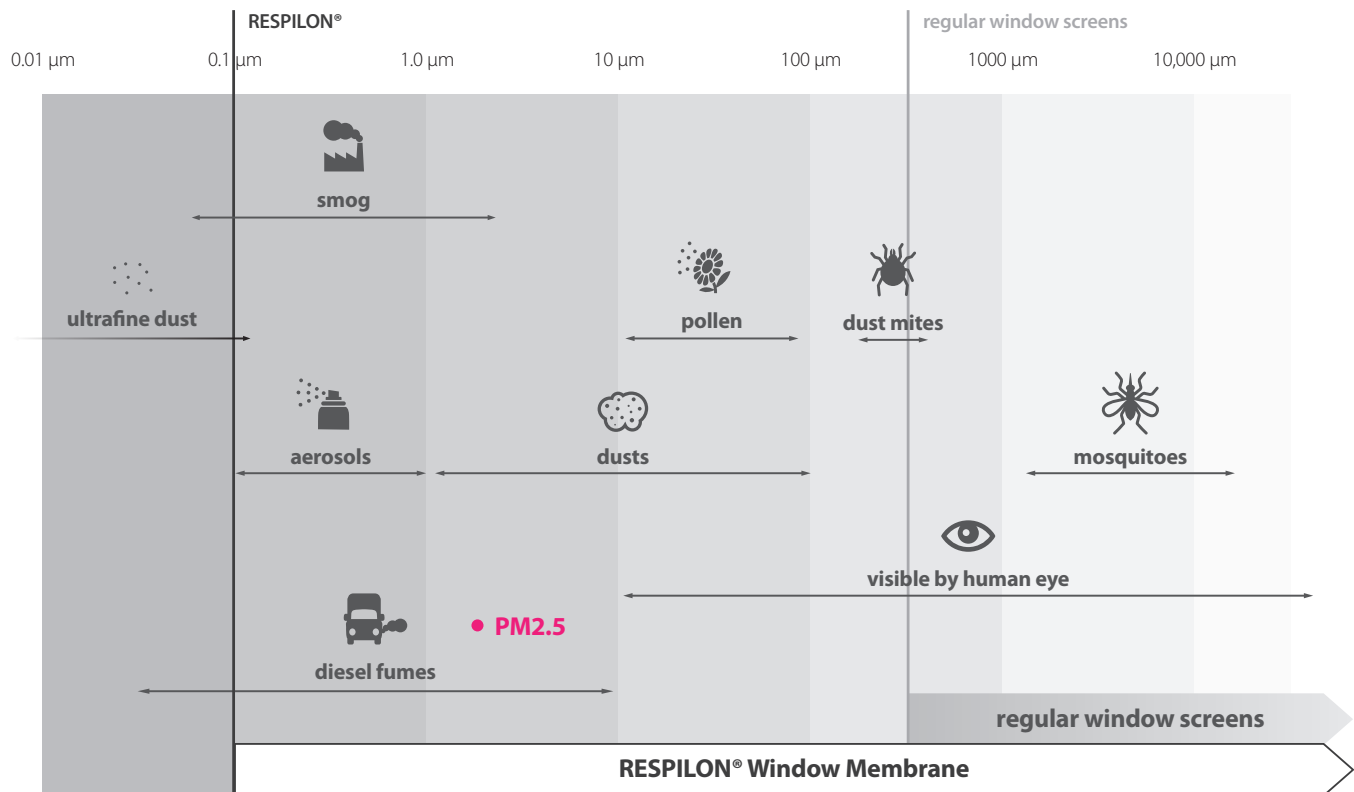
- ✓ Clean air in all conditions
- ✓ Airing possible even in dusty areas
- ✓ Saves time with dusting
- ✓ Can be used all year round
- ✓ Easy to maintain

PROTECTION FROM

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



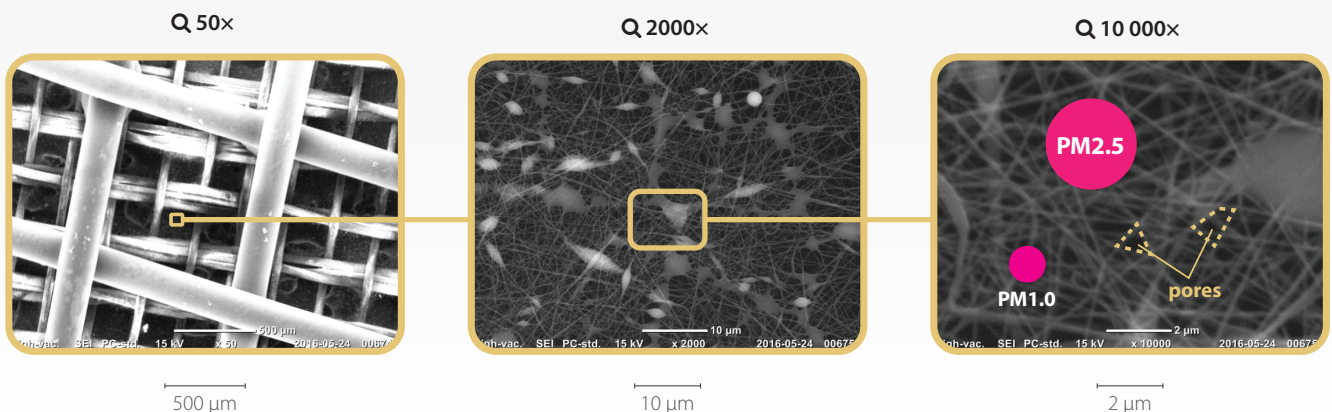
Which particles does nanofiber membrane protect you from?



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



How does RESPILON® work?



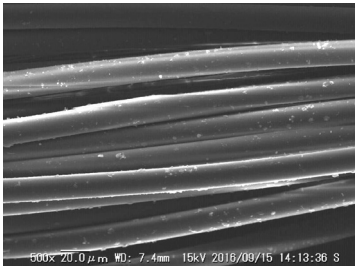

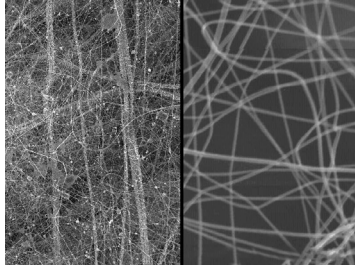
Nanofiber membrane creates a mechanical barrier which prevents the penetration of dangerous particles without using any dangerous chemical substances.



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 %	87.4 %
Filtration efficiency: 2.5 μm particles	23.0 %	28.6 %	89.4 %
Filtration efficiency: 5.0 μm particles	31.9 %	39.8 %	94.1 %
Sample:	 Q 500x	 Q 500x	 Q 500x Q 10,000x

Efficiency was measured with the constant airflow of 1.2 l/m.



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



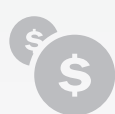
2.5 μm = **PM2.5**
smog particle size



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



	Regular window screen	RESPILON® Window Membrane
Description:	✗ Obsolete product, not efficient against current threats	✓ Premium product, high-tech nanofiber solution against air pollution
Material:	✗ Glassfiber, aluminium, steel	✓ Nanofiber, breathable mesh
Filtration efficiency:	✗ Fails to capture the most hazardous particles	✓ Captures even the smallest dust, smog and PM2.5 particles
Toughness:	✗ Vulnerable to corrosion, and more susceptible to mechanical damage	✓ Highly resistant because of solid nanofiber structure
Service life:	✗ 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
Additional effects:	✗ 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



Contact

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