

theBreath<sup>®</sup>  
by Anemotech  
Pure technology.



# Operating effectiveness

## **VOC** (Volatile Organic compounds)

Toluene (C<sub>7</sub>H<sub>8</sub>) > 97.2%

Heptane (C<sub>7</sub>H<sub>16</sub>) > 96.8%

Formaldehyde (CH<sub>2</sub>O) > 92.2%

Benzene (C<sub>6</sub>H<sub>6</sub>) > 62.0%

## **Sulfur Dioxide** (SO<sub>2</sub>)

> 91.5%

## **Nitrogen Dioxide** (NO<sub>2</sub>)

> 86.8%

## **Ozone** (O<sub>3</sub>)

Continuous reaction in the atmosphere

The effectiveness of the product to guarantee its functioning has been tested following the procedures indicated in the following standards : UNI 11247 ANSI/AHAM AC-1-2002 ISO 16000-9

The results obtained from the static release tests, carried out in the laboratory according to the modalities indicated in the ISO 16000-9 standard, indicate a post adsorption release of the compounds indicated above, well below the limit, within the reference standard

# Operating effectiveness

## Operating temperature



**-30xC**  
**+100°C**

In this range of temperature the  
chemical-physical characteristics  
are not altered

## Reaction to fire



Product:  
a) Italy: class III (UNI 9177)

## Air permeability



>1700lm2/s @200Pa  
(EN ISO 9237)

## Weight sqm



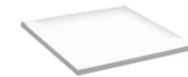
from 450 to 800 g

## Measure max



1,5x80 m

## Thickness



from 3 to 5 mm

# Certifications

## **ISO 16000-9**

Test for the determination of the specific flow by surface emission of volatile organic compounds (VOC's) from newly produced construction products or finishing products in defined climatic conditions.

## **UNI 11247**

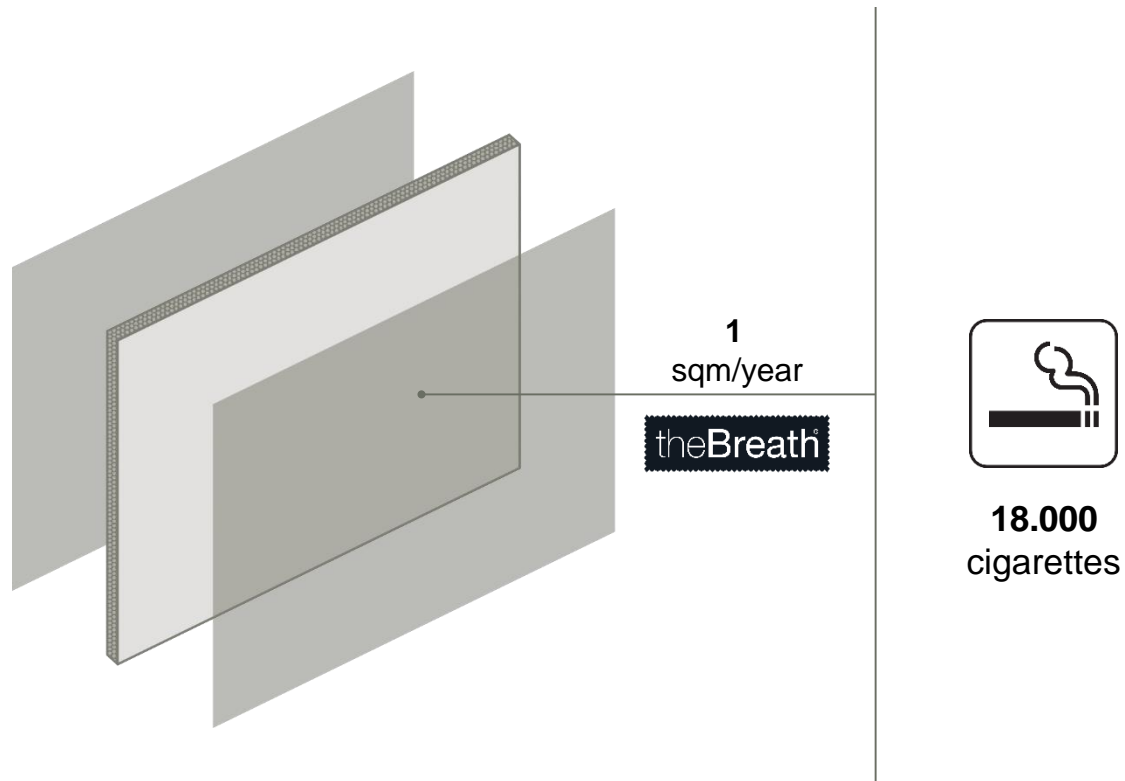
Test for the determination of the photocatalytic abatement index of Nitrogen Oxides in air from inorganic materials.

## **TEST ANSI/AHAMAC-1-2002**

Measurement method of air purifies performance for domestic use.



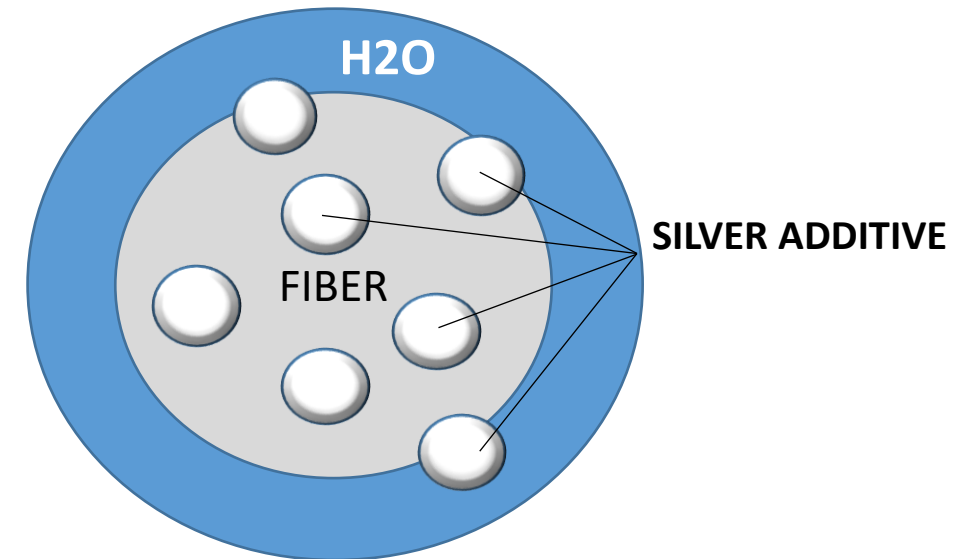
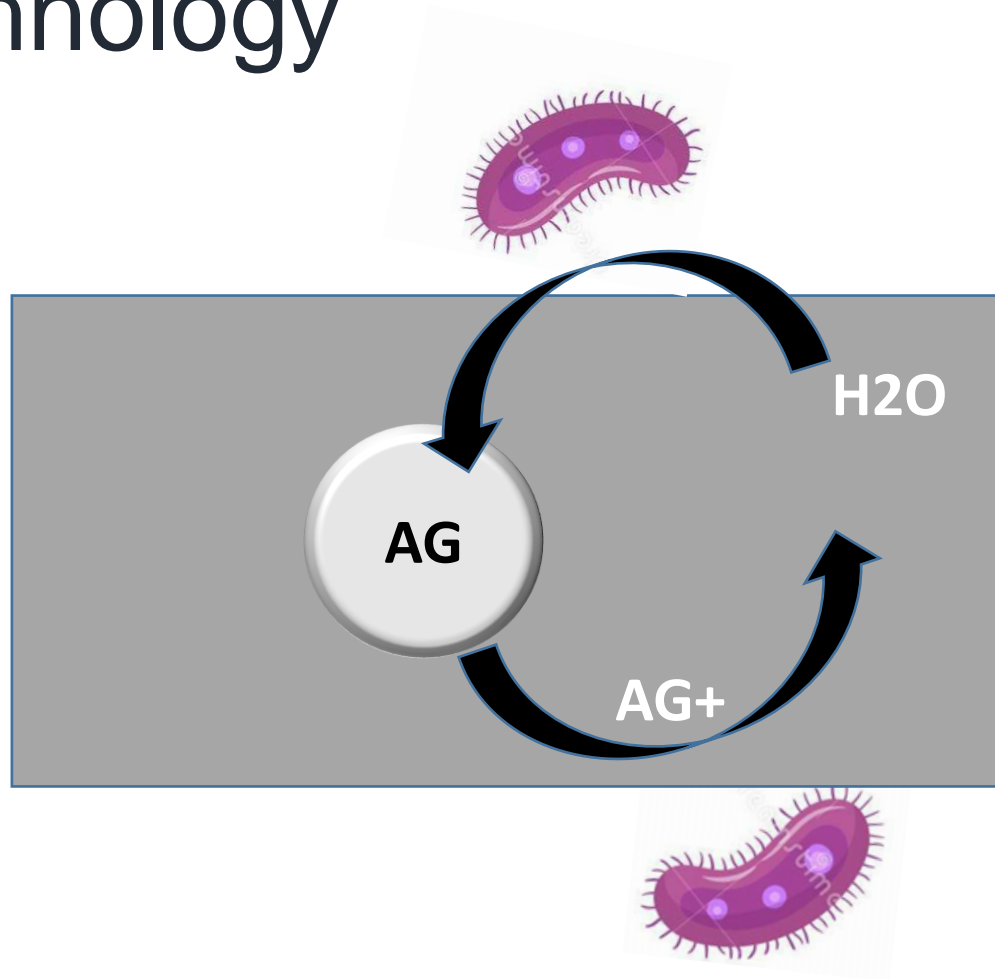
# Absorption power



**Absorption projection with 1  
square meter of theBreath® fabric**  
based on one year,  
in an indoor environment (25 sqm) \*

\*projection made with official data taken from the "passive smoking report" of the Italian Ministry of Health .

# Technology



Silver: a natural and antimicrobial material

# Silver exercises an effective control of all gram positive and gram negative bacterias.

Its microparticles showed their effect against some fungi as well.

<i><b>Gram-positive bacteria</b></i>	<i><b>Gram-negative bacteria</b></i>	<i><b>Fungi</b></i>
Staphylococcus Aureus	Kletsilla Pneumoniae	Chaetonium globosun
Enterococcus Faecalis	Esherichia Coli	Aespergillus Niger
Bacillus Cereus	Pseudomonas Florescens	
Listeria Monocytogenes	Salmonella Enteritidis	
MRSA	Salmonella Typhimurium	

EN ISO 20743:2207-JIS 1902:2002

(EN 14119a - 2003-12)

# Principles of the antimicrobial activity of silver ions:

- They damage the surface of the bacterial cell.
- They inhibit breathing through the cell membrane.
- They create bonds with the molecules of the bacteria.

**Their effectiveness is certified, their performance is guaranteed**

- Tests in accordance with ISO 20743:2007 and JIS 1902:2002
- Performance unaltered after 300 washes at 40°C.