

NANOFIBER-BASED ANTIMICROBIAL NON-VALVE RESPIRATOR

 **BreasaSAFE®**
ANTI-COVID-19

Filtrating half-mask for protection not only against the SARS-CoV-2 virus

CERTIFIED
BY THE OCCUPATIONAL SAFETY
RESEARCH INSTITUTE
ACCORDING TO THE EU NORM:
EN 149:2001 + A1:2009 (FFP2)



Protection against
microorganisms

FFP2

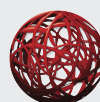
Capture rate
≥ 94 %

Unique respirator providing protection not only against the SARS-CoV-2 virus, which causes COVID-19 disease.

BreasaSAFE® respirators are made of a unique nanofiber membrane, whose ultralight construction enables comfortable wearing even for a longer time. The absence of breathing valve enables BreasaSAFE® respirators to safely protect both the user and their surroundings from infection.

Testing performed by renowned institutions such as Nelson Laboratories USA (as one of a few laboratories worldwide measuring viral filtrating efficiency VFE) or the Faculty of Science of Jan Evangelista Purkyně University (testing of antibacterial effects) proved that by adding active silver we have achieved significant and long-lasting antimicrobial properties with high effectiveness in fight against microorganisms (e.g. SARS-CoV-2).

Proudly developed and made in the Czech Republic.



NANO4FIBERS
PARDAM

UNIQUE FEATURES:

SAFE FOR THE USER: Nanofiber membrane protects the user against COVID-19

SAFE FOR SURROUNDINGS: Absence of breathing valve ensures protection of the user as well as their surroundings

ANTIMICROBIAL: Thanks to use of active silver effectively eliminates microorganisms

LONG-TERM USE: Can be worn for several days as a protection against microorganisms if properly cared for

COMFORTABLE: Anatomical design with hypoallergenic technology, no glue or bonding agents

BREATHABLE: Easy and comfortable breathing (240 cm² of breathing area)

ULTRALIGHT: Only 16 g

WELL-FITTING: Excellent fit factor (sealing of the mask)

EASY CARE: Can be disinfected by both professionals and home users

ANTI-ODOR: Active silver eliminates odors and ensures protection even when the respirator is wet

www.nano4fibers.com

The most effective long-term and functional protection against COVID-19

BreaSAFE[®]

ANTI-COVID-19

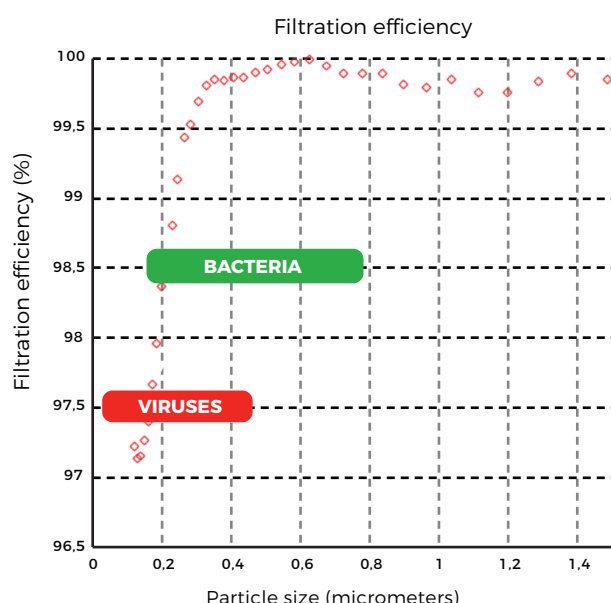
Filtrating half-mask for protection not only against the SARS-CoV-2 virus

BreaSAFE[®] ANTI-COVID-19 respirator has been developed as a protection against the SARS-CoV-2 virus. If you use the respirator for this reason, you can safely wear it for several days (approx. 1 to 2 weeks, according to the environment, activity and proper care).

The individual components have been carefully selected in order to enable disinfection of the respirator.

Testing did not include the test of dust contamination (DRB 4/15 dolomite dust). Therefore, the respirator can be used as a Personal protective equipment (PPE) for a time equivalent to one work shift (NR marking). The respirator cannot be cleaned from dust contamination.

CAPTURE EFFICIENCY



All about **BreaSAFE[®]** products:
www.nano4fibers.com/breaseafe



Capture rate
 $\geq 94\%$

Protection against
microorganisms



An internal study has proved that even 14-time treatment with recommended disinfectant did not cause any reduction of breathability, damage of outer or inner layer of the respirator and, above all, reduction of filtrating efficiency of used membrane.

If you decide to use the respirator for protection against microorganisms, we recommend to treat the respirator:

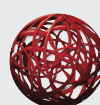
- after each use (due to a possible contamination caused by manipulation with the respirator)
- with a spray disinfectant based ideally on alcohol or isopropyl alcohol
- with heat in a hot-air sterilizer or an autoclave at maximum temperature of 70 °C for 30 minutes

Due to the risk of damage to the membrane we do not recommend:

- to use disinfectant agents based on hydrogen peroxide
- to exceed recommended maximum temperature of 70 °C during sterilization in a hot-air sterilizer or an autoclave
- to sterilize by a UV lamp or ozone
- to place wet, disinfectant-treated respirators into an autoclave or a hot-air sterilizer (risk of ignition of disinfectant vapors)

Do not use the respirator if:

- harmful particles have penetrated the respirator, and pollution, foul odor or other sign of penetration of pollutants has been discovered
- breathing resistance of the respirator has significantly increased



NANO4FIBERS
PARDAM

The most effective long-term and functional protection against COVID-19