

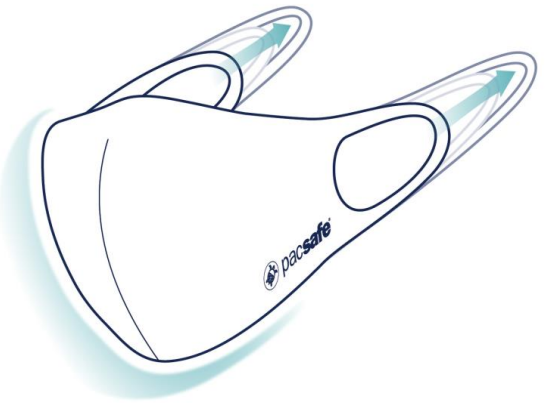
PACSAFE REUSABLE FACE MASKS

April 30, 2020





Antimicrobial: ViralOff technology
Antimicrobial lifetime: Tested to 20 washes without performance deviation
Washable: Yes & Self-cleaning through Polygiene Odor Crunch. For best performance and sustainability, wash less and only when needed
Color: Black
Sizes: Small, Medium & Large
Material: 80% Polyester & 20% Spandex



ViralOff Face Mask



Antimicrobial: Silver ion
Antimicrobial lifetime: Doesn't wash away
Washable: Yes
Filters: Built in
Filters specs: High charged filter (static adsorption)
Filter lifetime: 98% filtration efficiency after 20 washes
Color: Silver Gray
Sizes: Small, Medium & Large
Material: 77% Cotton, 8% Wool & 15% Silver



Silver iON Face Mask



Small (kids)
Style Number - 10168

Medium (women)
Style Number - 10167

Large (men)
Style Number - 10166



Small (kids)
Style Number - 10164

Medium (women)
Style Number - 10163

Large (men)
Style Number - 10162

Protect yourself against

VIRUSES BACTERIA POLLUTION

for Everyday & Travel

As lockdowns slowly are opening up, it's important to stay safe, and not use disposable masks that are essential to healthcare workers.

REDUCE OCEAN PLASTIC



By choosing a reusable face mask you don't only help the first responders and medical staff, but also helps us in our goal to reduce ocean plastic.

Centers for Disease Control and Prevention (CDC) recommends wearing cloth face coverings in public settings where other social distancing measures are difficult to maintain (e.g., grocery stores and pharmacies), especially in areas of significant community-based transmission.

CDC also advises the use of simple cloth face coverings to slow the spread of the virus and help people who may have the virus and do not know it from transmitting it to others.

The cloth face coverings recommended are not surgical masks or N-95 respirators. Those are critical supplies that must continue to be reserved for healthcare workers and other medical first responders, as recommended by current CDC guidance.

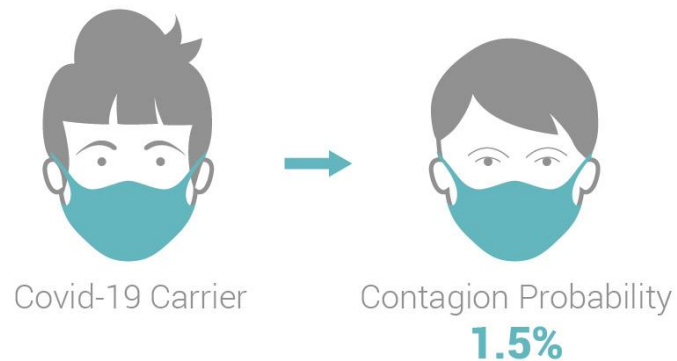
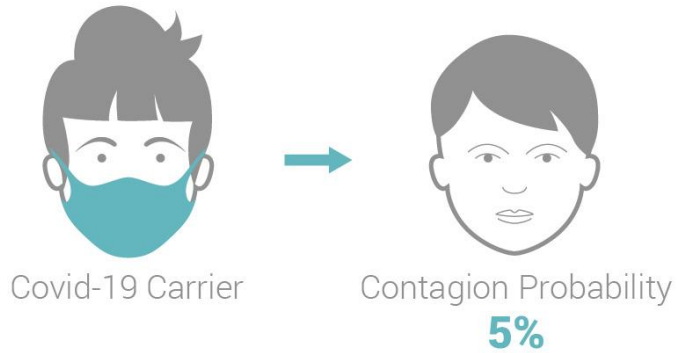
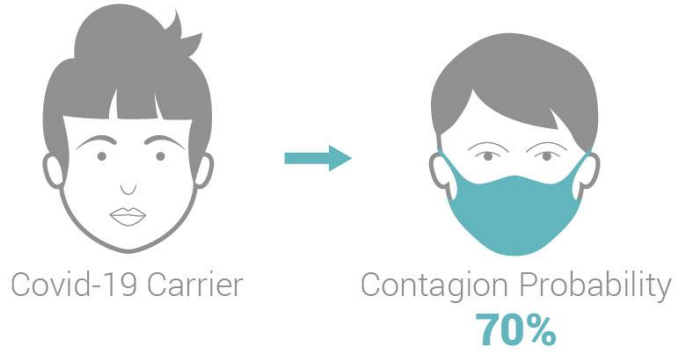


Masks help

The European Centre for Disease Prevention and Control agrees that non-surgical face masks help stop the spread of coronavirus by people who are contagious but have no symptoms.

Masks are particularly useful in busy spaces, such as grocery stores, shopping centers, and on public transport, it says.

Coronavirus can be spread by micro droplets that can spray into the air when those infected talk, cough and sneeze. These can enter the body through the eyes, nose and mouth, either directly or after touching a contaminated object.



PLEASE
WEAR A
MASK

A virus can survive on
a regular face masks
for a week





2 in 1

Pacsafe Viral Off Face Mask



Think of it as sanitizing gel for your mask



3 in 1

Pacsafe Silver iON Face Mask

1. Antimicrobial

Pacsafe offers two types of Antimicrobial technologies – ViralOff and Silver iON

2. Barrier

The mask itself offers a barrier to prevent droplets from spreading through sneezing and coughing.

3. Filtering

Pacsafe's Silver iON is constructed with 5 different filter layers; each layer serves a specific function and ensures that the mask's performance can be retained after washing.

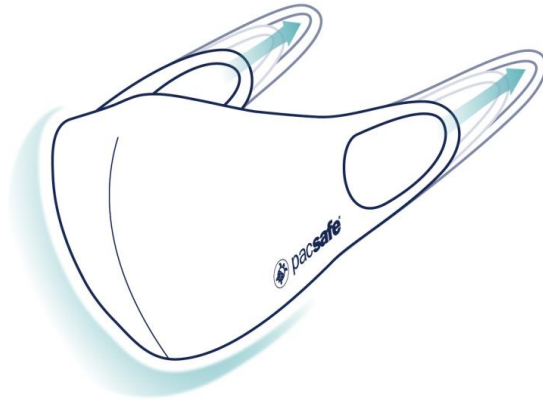


REUSABLE FACEMASK

POLYGIENE® VIRALOFF®



Antimicrobial: ViralOff technology
Antimicrobial lifetime: Tested to 20 washes without performance deviation
Washable: Self-cleaning through Polygiene Odor Crunch.
 For best performance and sustainability, wash less and only when needed
Color: Black
Sizes: Small, Medium & Large
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ViralOff Face Mask



Small (kids)
Style Number - 10168

Medium (women)
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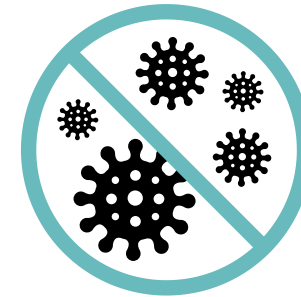




Using a mask is smart and considerate.
But what if your mask builds up viruses?

The Pacsafe Reusable facemask treated
with Polygiene® ViralOff® will hold 99%
fewer viruses in 2 hours*.

Think of it as sanitizing gel for your mask.

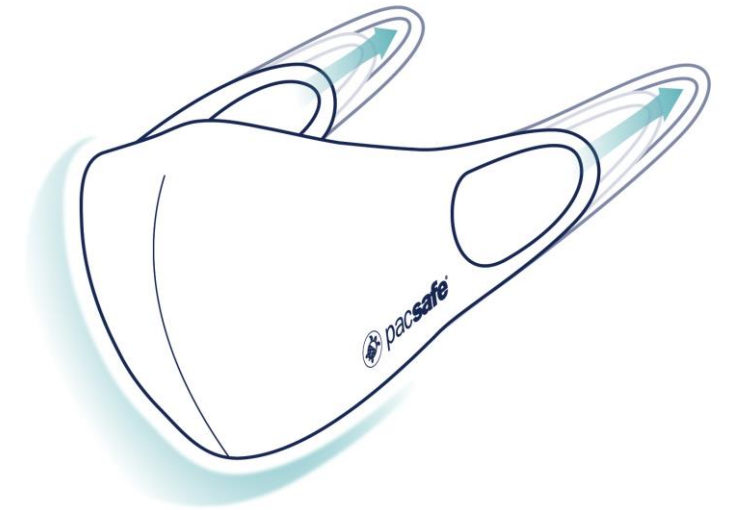


99 % REDUCTION OF
VIRUSES IN 2 HOURS

ISO18184 tests against viruses (like Influenza, Corona, Hepatitis)

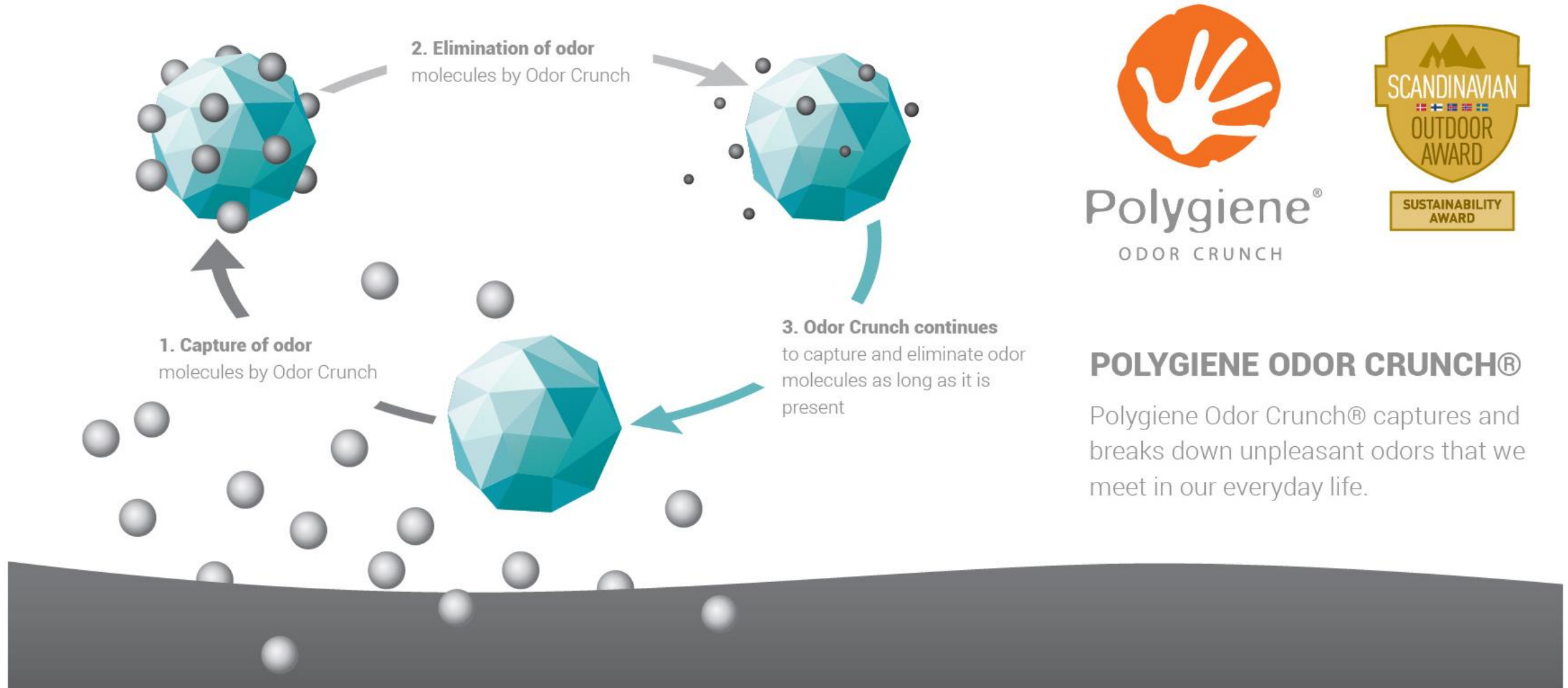


ViralOff
POLYGIENE TECHNOLOGY



*ISO18184:2019 standard antiviral test

Polygiene Odor Crunch



Polygiene®
ODOR CRUNCH



POLYGIENE ODOR CRUNCH®

Polygiene Odor Crunch® captures and breaks down unpleasant odors that we meet in our everyday life.



Advantage



99% REDUCTION OF VIRUSES

Using viraloff®
Polygiene technology



ANTI-SPLASH

With water repellent fabric



UV PROTECTION TECHNOLOGY

Protects face and chin
from over exposure to the sun



SUSTAINABLE

Saves water and energy by
requiring less washing with
Polygiene Odor Crunch Technology



COMFORTABLE BREATHING WITH 3D FIT

Stretchable fabric
for snug fit



REUSABLE

Designed for long-term use
to prevent disposable waste



BARRIER AGAINST DROPLETS

Helps protecting against droplets
from coughs and sneezes



REMOVES UNPLEASANT ODORS

Neutralizes odor-causing bacteria
using polygiene odor crunch® technology



Pacsafe ViralOff Face Mask



ViralOff Face Mask

REUSABLE FACEMASK

SILVER ION



Antimicrobial: Silver ion
 Antimicrobial lifetime: Doesn't wash away
 Washable: Yes
 Filters: Built in
 Filters specs: High charged filter (static adsorption)
 Filter lifetime: 98% filtration after 20 times of washing
 Color: Silver Gray
 Sizes: Small, Medium & Large
 Material: 77% Cotton, 8% Wool & 15% Silver



Silver iON Face Mask



Small (kids)
 Style Number - 10164

Medium (women)
 Style Number - 10163

Large (men)
 Style Number - 10162



Silver ion

“We’ve all seen the Superman films or read the comic books where he comes up against kryptonite and is severely weakened. Well, to harmful microbes like bacteria and viruses, silver is their kryptonite. It damages them, it destroys them, it helps to defeat them.”

The discovery of novel antiviral materials is important because many infectious diseases are caused by viruses. Silver nanoparticles have demonstrated strong antiviral activity, and graphene is a potential antimicrobial material due to its large surface area, high carrier mobility, and biocompatibility.

Silver ions are already being used in the fight against coronavirus too. In Dubai, a range of techniques have been employed including steam cleaning and disinfectant fogging, while treatment with silver ions has been deployed on the streets in Italy.



The Advantage



Pacsafe Silver Ion mask is a **reusable and washable** mask that provides reliable respiratory protection of at least **99% filtration efficiency** against microbes and airborne particles.

It is constructed with **5 different filter layers**; each layer serves a specific function and ensures that the mask's performance can be retained after washing. These functions include directly inactivating microorganisms through **antimicrobial materials**, and **electrostatically adsorbing microorganisms and particles** to protect users. 3D contour fit to any face shape, as well as effectively filtrate airborne particles.

Adjustable elastic clips ensure a **secure fit**. Maximizing the protection of its user, the mask's top layer is made from **silver ions fabric**, which has been constructed using pure silver-plated and cotton wool yarn.

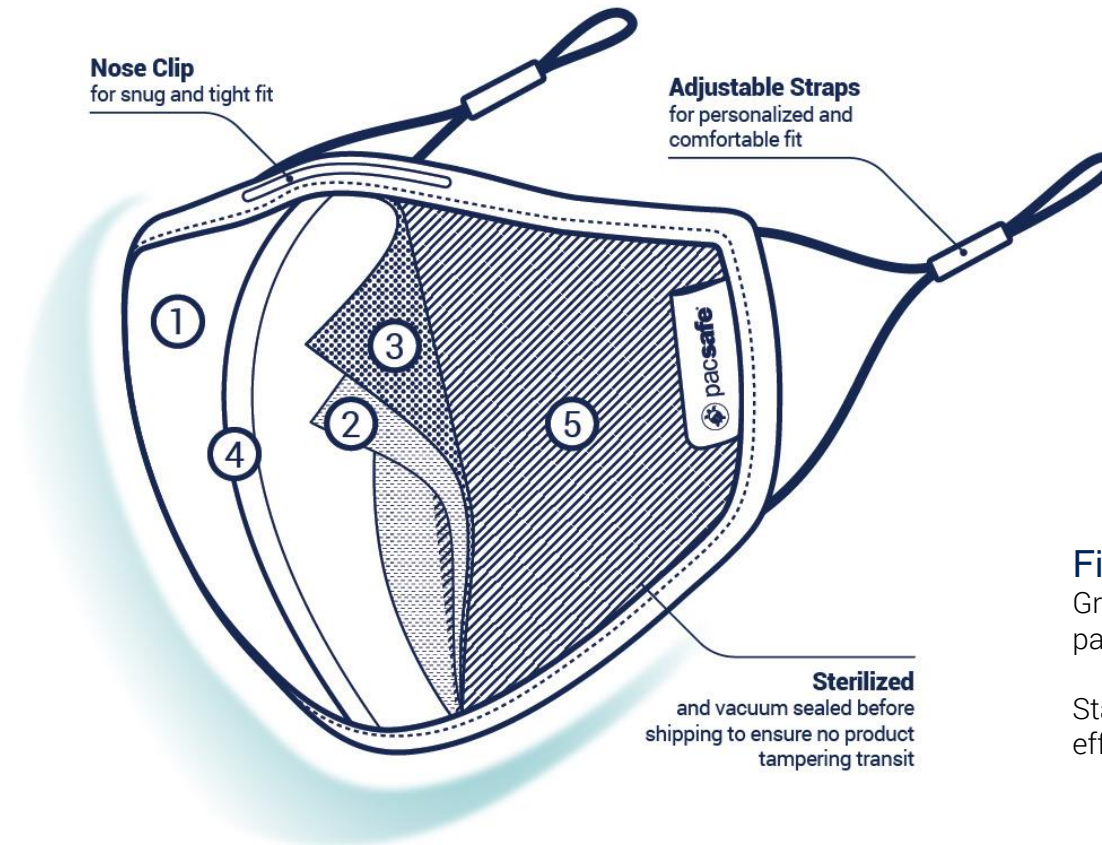
The next-to-skin layer is made of ultra-soft Modal fabric, and Graphene, which have **antimicrobial, deodorizing, and moisture absorption** functions. These materials ensure the user's comfort and protection.

Furthermore, this mask has been certified to have over 98% filtration efficiency even after 20 washes.

5-Layer Filtration

ADVANCED 5-LAYER SHIELD

- 1. Advanced Silver ions layer**
Effectively disinfect and reduce microbes.
- 2. High Fluid Resistance layer**
Provides a protective barrier against splashing.
- 3. Advanced High Charged Filter**
Effectively filter out microbials and airborne particles.
- 4. 3D Skeleton construction layer**
Protects filter's functionality after multiple washes without collapsing.
- 5. Antimicrobial lining layer**
Made with ultrasoft Modal fabric and Graphene to effectively disinfect and reduce microbials.
Neutralizes odor-causing bacteria.



Filtering through Static

Groundbreaking innovation that allows charged particles diversion by magnetic field.

Static filters are **washable** and retain a 98% filtration efficiency even after 20 washes.

Pacsafe Silver Ion Face Mask



Sterilized and vacuum packed to ensure end consumer that the mask has not been tampered with.

Silver iON Face Mask



PROTECT YOUR SELF





APPENDIX

Pacsafe ViralOff Face Mask Shipper



POS Display Shipper

Coming Soon

Mask Comparison Chart

							
FEATURES	Pacsafe Ion	Pacsafe Viraloff	Vogmask	Cambridge mask co	Airinum + filter	Surgical mask	N95 respirator
Anti-odor	✓	✓					
Antimicrobial treatment on fabric	✓	✓					
Adjustable ear loops	✓				✓		
Built in filter	✓		✓	✓		✓	✓
Washable	✓	✓	✓	✓	✓		
No Valve (protecting others)	✓	✓				✓	✓
Reusable: More environmentally friendly.	✓	✓	✓	✓	✓		
Barrier; Block the larger particles ejected and received through talking, coughing, spitting and sneezing.	✓	✓	✓	✓	✓	✓	✓
Filters; gases and reduces odorS, larger PM10, pollen and other allergens and smaller PM2.5, dust, bacteria, smoke, pollution	✓		✓	✓	✓		✓
Filters out at least 95% of airborne particles filtering to 0.3-µm particles							✓
Fashion friendly	✓	✓	✓	✓	✓		
Lifespan	12 months	12 months	6 months	3-6 months	Filters: 2 weeks	8-10 hrs.	8-10 hrs.
COSTINGS							
	39,90	12,90	44	30	90 (incl. filter pack)	0.20	3.50
Cost per day (based on lifespan & filter consumption)	0.11	0.04	0.24	0.16	0.64	0.20	3.50

Silver ion Antimicrobial

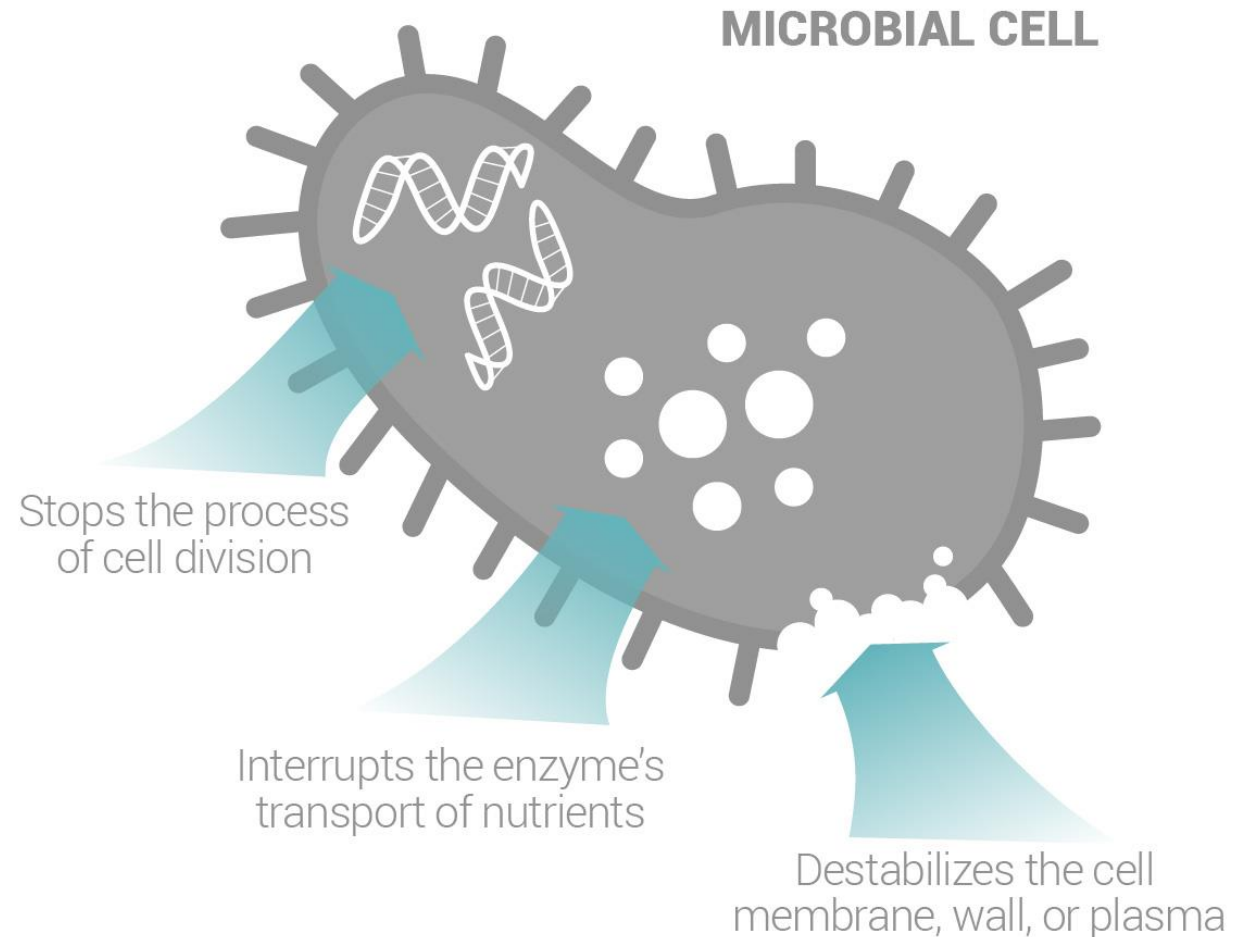
Because of the unique Silver geometry and highly efficient release mechanism, it works continuously to inhibit the growth of microbes.

Proven efficacy: Silver disrupt bacteria's metabolism by preventing it from converting nutrients into energy, which inhibits bacteria survival, reproduction and colonization

Active 24/7: The silver ion is constantly presented on the first layer of the mask, ready to be released 24/7

Added level of protection: High Fluid Resistance layer, Advanced High Charged Filter, and Antibacterial lining help to extend the effectiveness of disinfecting

Durable: The Silver remains effective after washings. It stays inert until it comes into contact with microbes. This technology does not wash off or wear away



Sizing guide

MASK SIZE MEASUREMENT

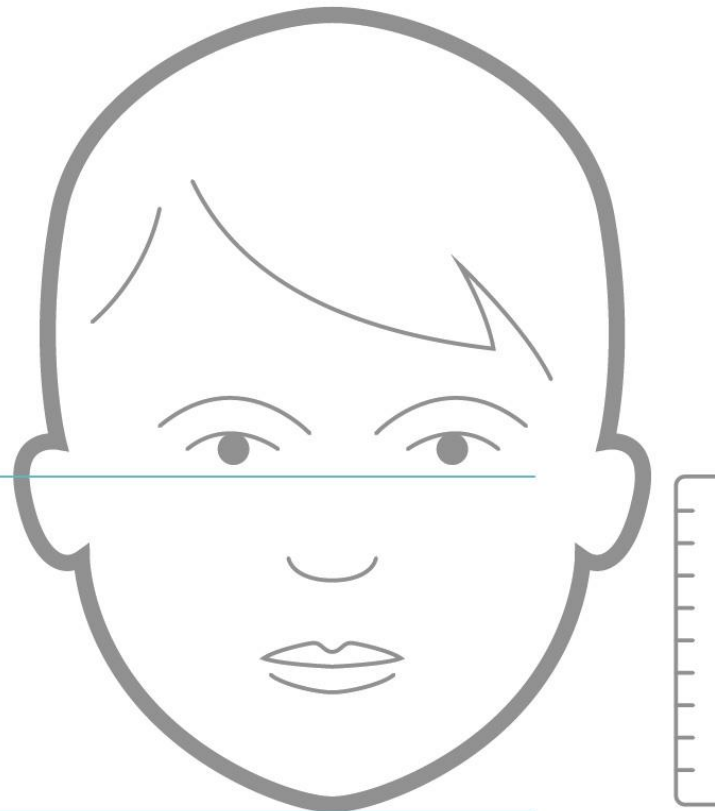
The most accurate method to determine your size is to measure from your lower eyelid to chin.

Measure in a straight line in front of a mirror.

LOWER EYELID

- (S) 7.5 - 9.8cm or 2.9 - 3.8inch
- (M) 9.8 - 10.5cm or 3.8 - 4.1inch
- (L) 10.5 - 12.2cm or 4.1 - 4.8inch

CHIN



SIZE CHART

LOWER EYELID



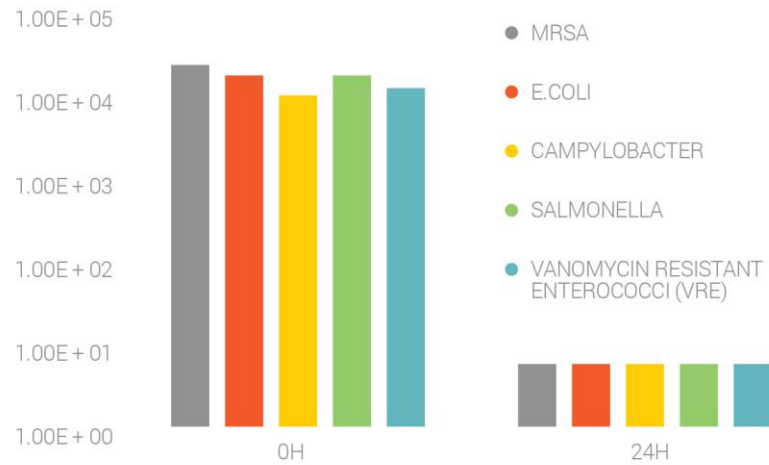
CHIN

Sizing Chart

Packaging will include a sizing chart helping the consumer to easily measure what size fits them.

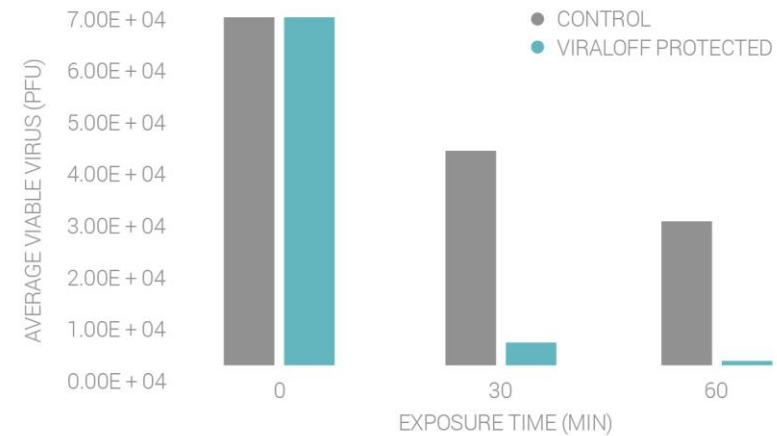


Against pathogens



Bacteria

Tests were carried out to determine the benefit of Polygiene treated fabric on treated material. Samples were sent to an independent laboratory and tested for efficacy against different bacteria. Reductions of bacterial numbers using ISO 207 43 were seen against MRSA, Salmonella, Campylobacter, E. coli and VRE.



Viruses

Treated fabric samples analyzed by Health and Safety laboratory to look at viral activity. Analysis identified that the treated fabric was effective at reducing the viability of *Norovirus* applied to them over 0, 5, 30 and 60 minutes. The outcome was a virucidal effect on the test virus by 93% in half an hour and 99% within an hour.

Disclaimer: The Mask has not been certified by any third party, and has not been certified for clinical environments (such as hospitals, medical clinics, etc.). Wearing the mask is not guaranteed to provide full protection against or fully remove risk of infection, as infection depends on many factors both known and unknown, including without limitation, fit, use, environment, and duration.

Why no valve?



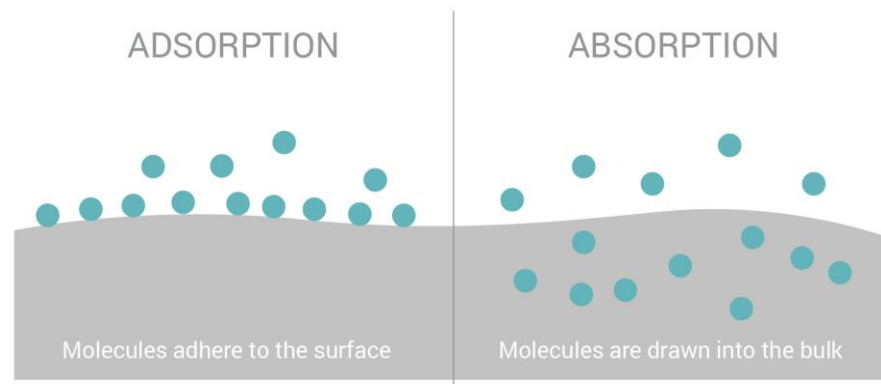
Avoid valved masks

Pacsafe have actively made the decision to not put a breathing valve on the mask.

The problem with valved respirators is that they **do not filter the wearer's exhalation**, only the inhale. This one-way protection puts others around the wearer at risk, in a situation like Covid-19. It's for this reason that hospitals and other medical practices do not use valved respirators.

Carbon vs Static Adsorption

Adsorption is the adhesion of atoms, ions or molecules from a gas, liquid or dissolved solid to a surface. This process creates a film of the adsorbate on the surface of the adsorbent. This process differs from absorption, in which a fluid (the absorbate) is dissolved by or permeates a liquid or solid (the absorbent), respectively. Adsorption is a surface phenomenon, while absorption involves the whole volume of the material. The term sorption encompasses both processes, while desorption is the reverse of it.



Filtering through Activated Carbon

Activated carbon works via a process called adsorption, whereby pollutant molecules to be treated are trapped inside the pore structure of the carbon substrate.

Activated carbon filters **can not be washed** to release the solids trapped in the activated carbon. Hence washing of the filter doesn't reactivate it.

Used in Pacsafe ViralOff Mask

Filtering through High Charged Static

Groundbreaking innovation that allows charged particles diversion by magnetic field.

Static filters **are washable** and keeps 98% filtration even after 20 times of washing.

Used in Pacsafe Silver iON Mask

N95 and FFP2

N95 and FFP3 & FFP2

The most commonly discussed respirator type is N95 (these are respirators, not masks). This is an American standard managed by NIOSH – part of the Center for Disease Control (CDC).

Europe uses two different standards. The “filtering face piece” score (FFP) comes from EN standard 149:2001. Then EN 143 standard covers P1/P2/P3 ratings. Both standards are maintained by CEN (European Committee for Standardization).

Respirator Standard	Filter Capacity (removes x% of all particles that are 0.3 microns in diameter or larger)
FFP2 & P2	At least 94%
N95	At least 95%



