

Sooper Products

INTRODUCES

SooperCoat

FOR FABRICS Virus Destroying Solution

Self Disinfecting Solution For Fabrics

#SooperCoatForFabrics


Innovative Hygiene Technology for Maximum Protection.

One virus has completely changed the way we live. Making health and hygiene, everyone's top priority. In today's times, people across the globe are anxious to stay safe from the dreaded Covid-19 virus, and are in search of everyday solutions.

Sooper Products offers a range of solutions that are created using innovative hygiene technology to safeguard people. Whether you want to breathe easy from behind a mask when you step out or disinfect surfaces and objects with UV light, we have you covered. With **Sooper Products** on your side, you can rest assured that your health risk is significantly reduced. And so is your stress.

The **SooperCoat For Fabrics** protected by Organic 121, uses the advanced nanotechnology to hamper the growth and spread of infections through fabrics. The embedment of antimicrobial nanoparticles into the fabrics and the coating process ensures that any microbe that comes in contact with the fabric is killed. It also makes the fabric resistant to wear and tear even after repeated wash cycles.

As we go about our daily lives, knowing fully well that the fight with virus is going to be a long drawn one, the best we can do is stay highly protected always with **Sooper Products**.



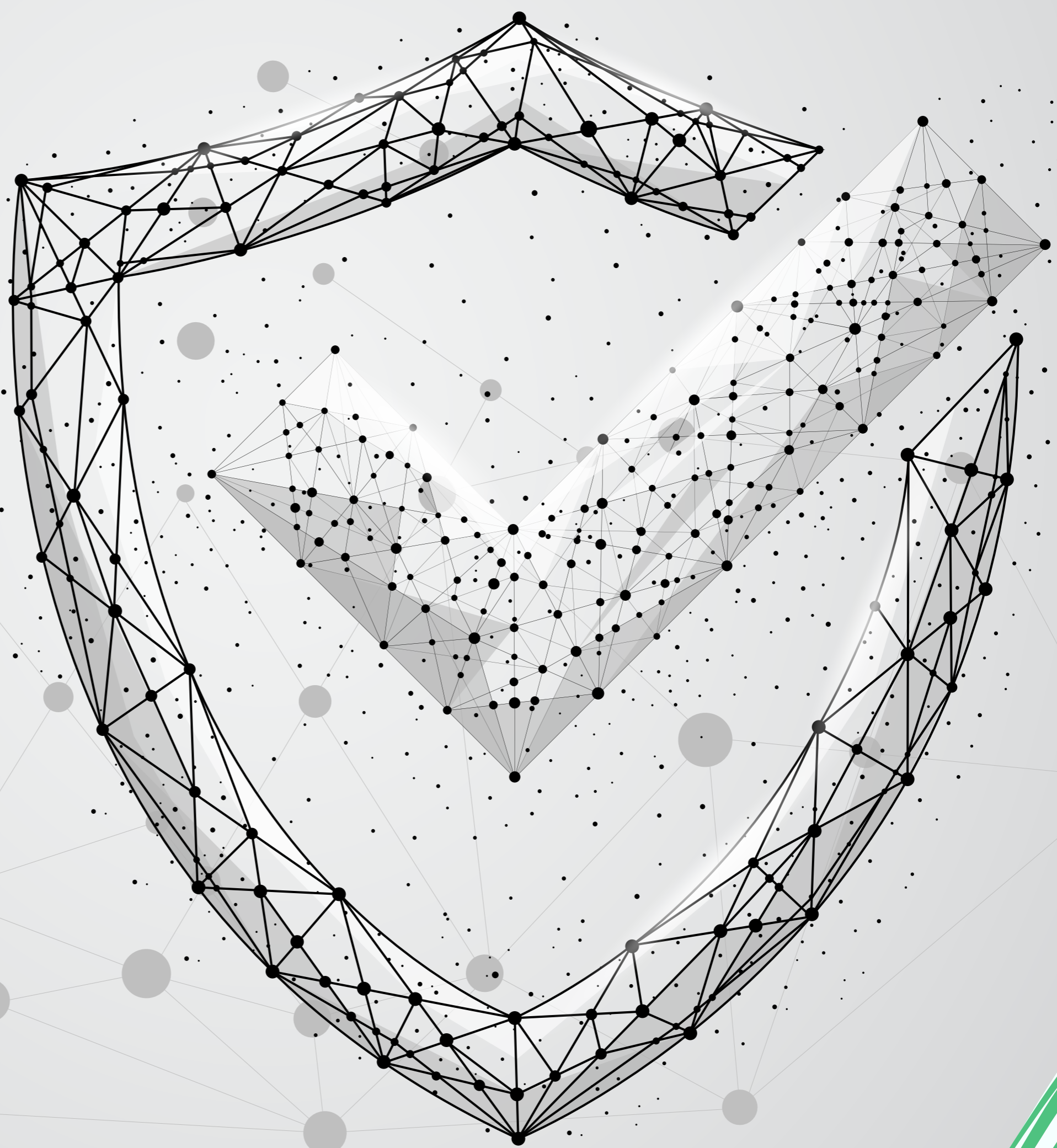
SooperCoat

FOR FABRICS **Virus Destroying Solution**

Protect and prevent
from Coronavirus (COVID-19)

The specially treated antimicrobial fabrics are most beneficial in making PPEs for healthcare professionals, sportswear, shoes, upholstery and military gear. SooperCoat for Fabrics is eco-friendly, easily washable and durable. As it is hypoallergenic, it suits all skin types.

PROTECTED BY



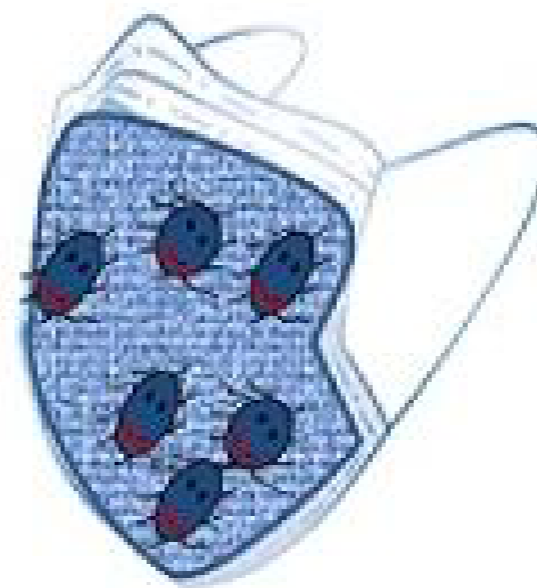
How it works?

Nanotechnology could be applied to textiles used in personal protective equipment and face masks to render antimicrobial properties that can kill any microbe upon contact with the fabric. This will provide additional safety and protection from spread, from touching. It will also address the problem arising from regular change of PPE and inconvenience caused due to precaution.

The long-term effect of SooperCoat on Fabrics resolves the hygiene gap



UNCOATED



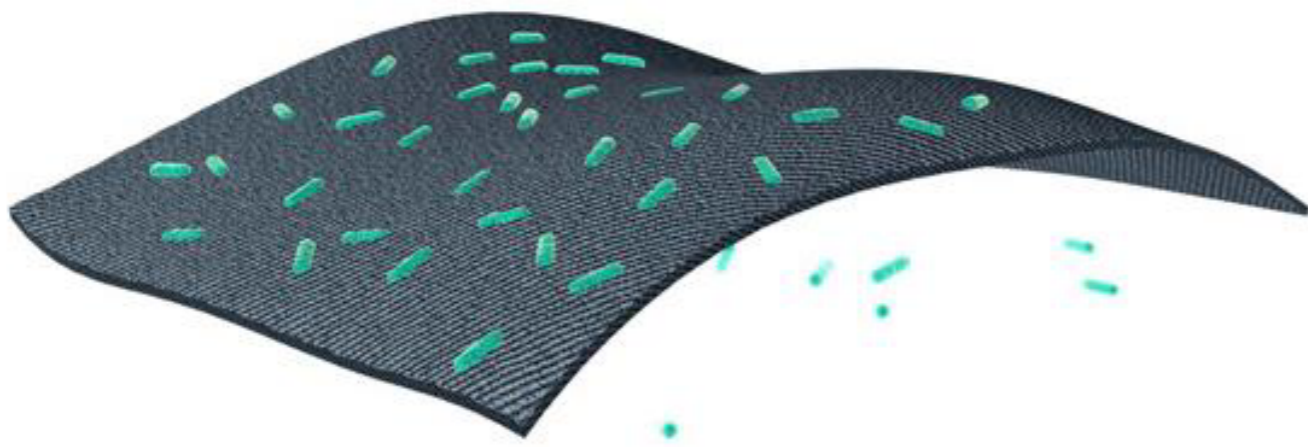
COATED



Why SooperCoat?

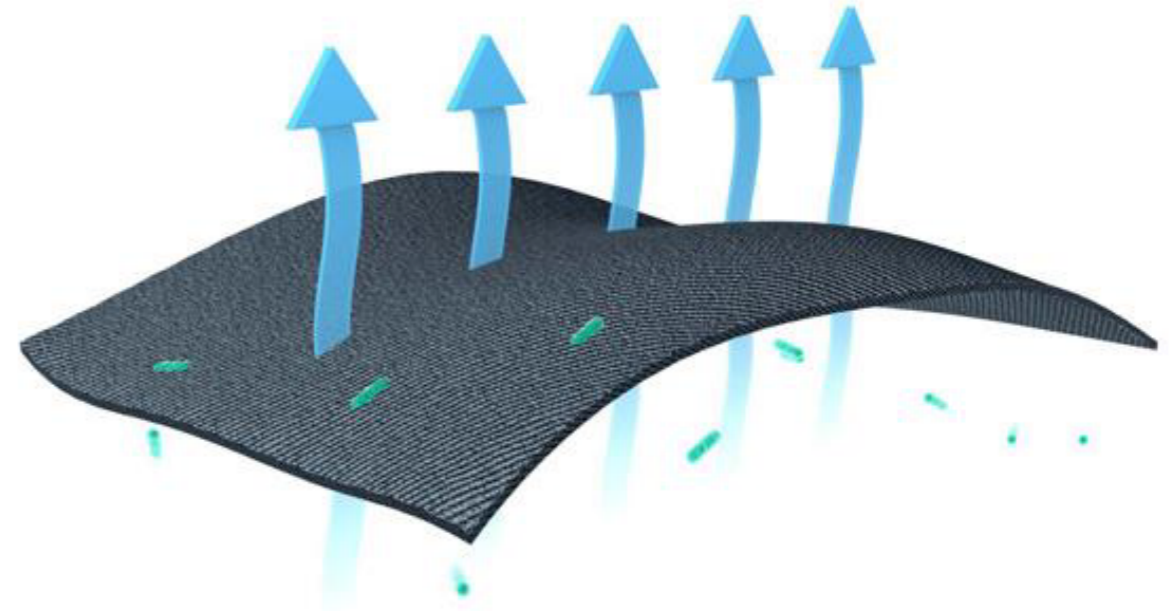
SooperCoat
FOR FABRICS **Virus Destroying Solution**

Textile without coating



The fabric harbors microbial layer that spreads freely

Textile with nanocoating

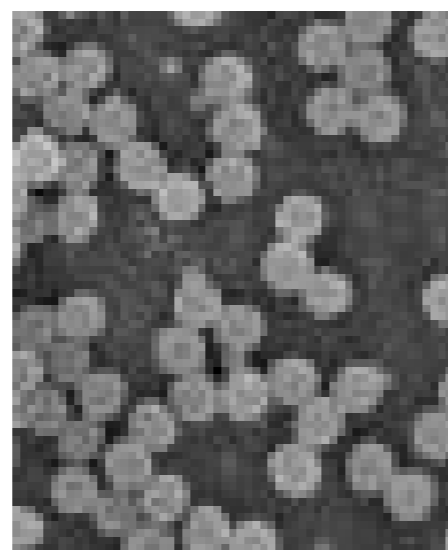


The nanocoating imparts antimicrobial properties to the textile making it odor free

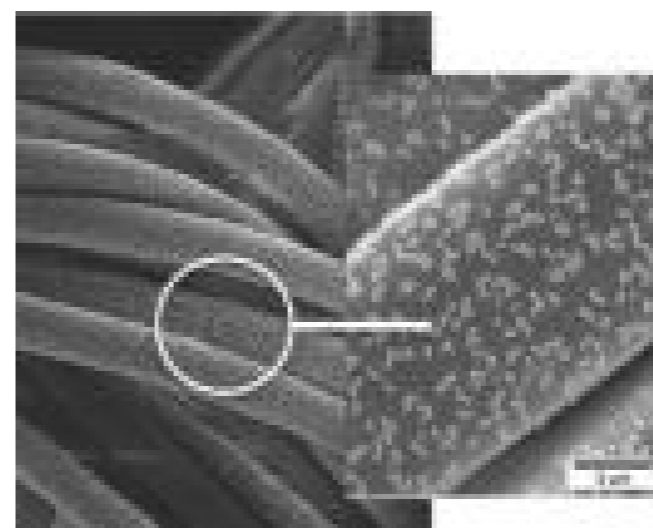
Tapping the potential of nanotechnology, we have fabricated functionalized textiles embedded with antimicrobial nanoparticles to inhibit growth and spread of contagious infections through fabrics.



TEXTILE



NANOPARTICLE

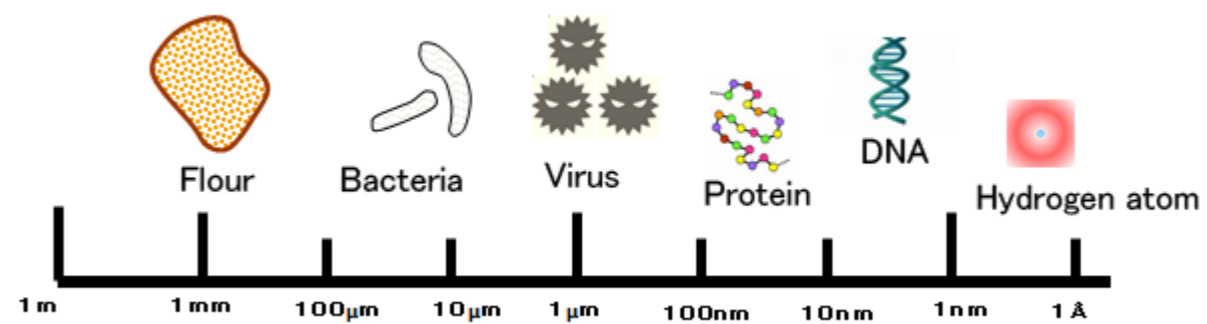
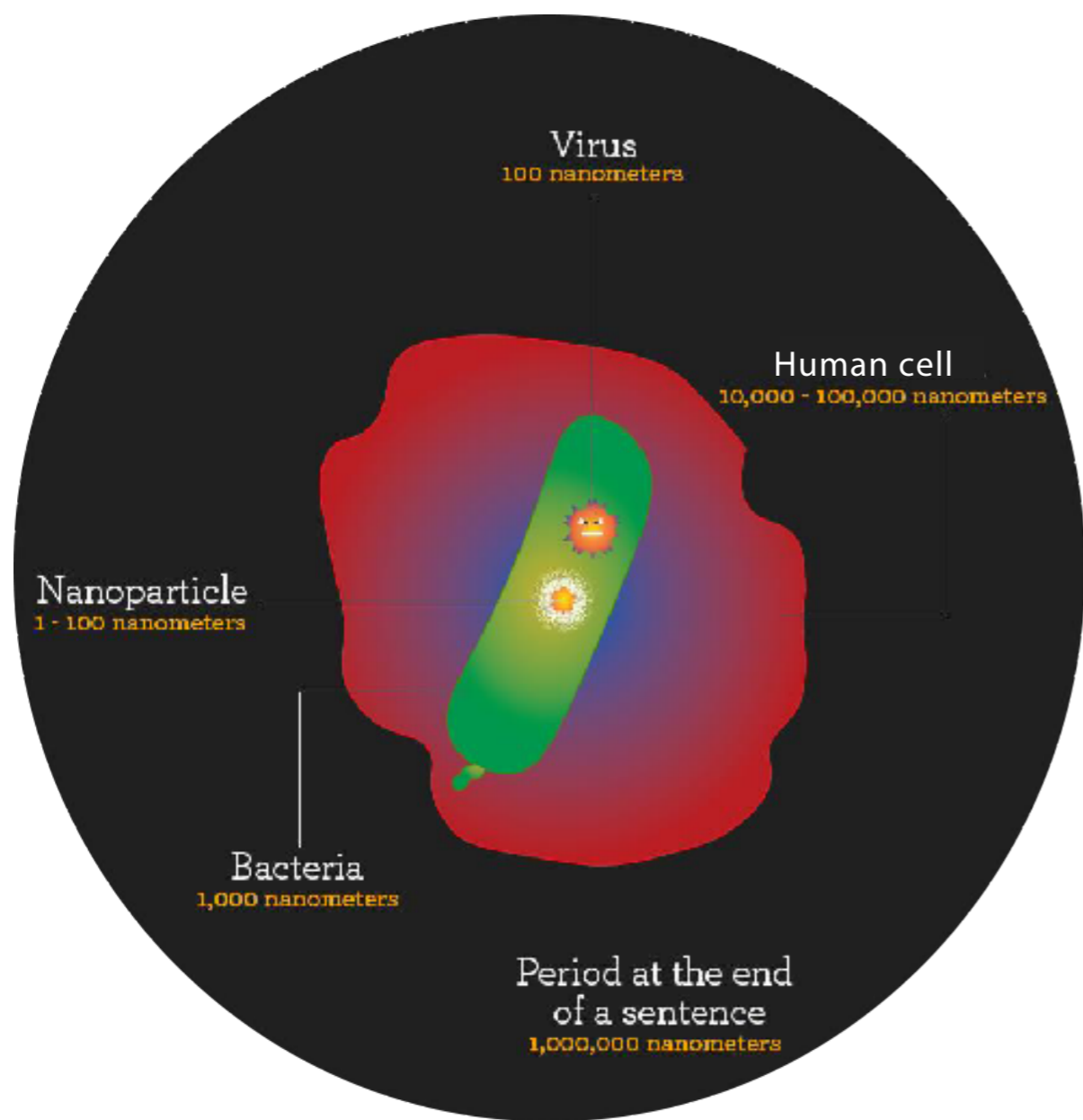


ANTIMICROBIAL TEXTILES

Using our proprietary process, we have designed functionalized textiles with antimicrobial properties suited specifically for medical personal protective equipment. Our synthesized nanoparticles as well as the coating process has been optimized to ensure cross-linking of the nanoparticles on the fabric or abrasion resistance and durability even after several wash cycles.



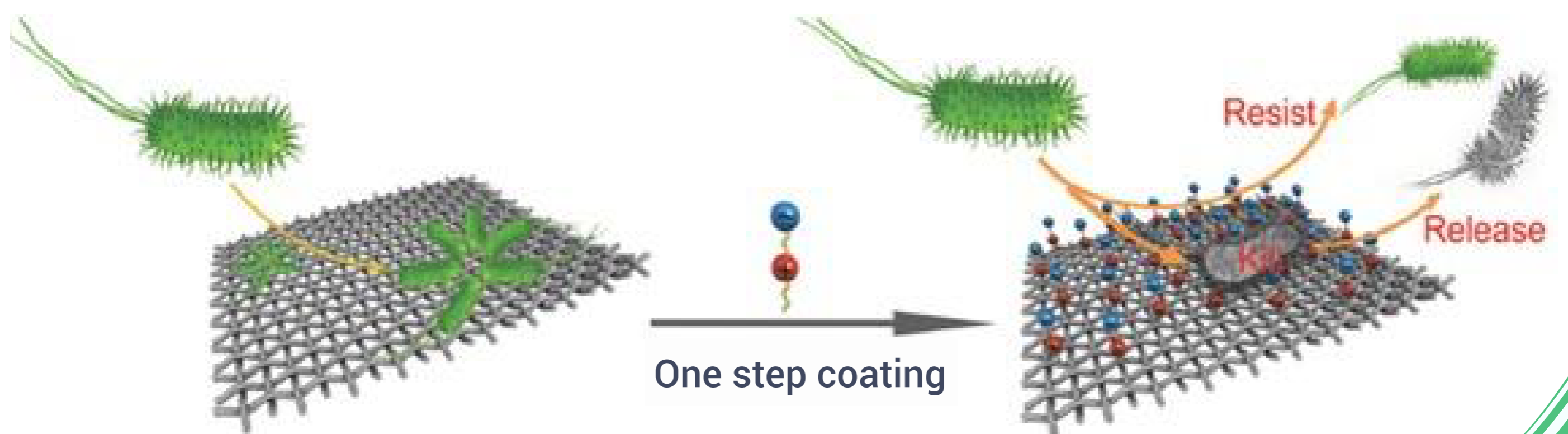
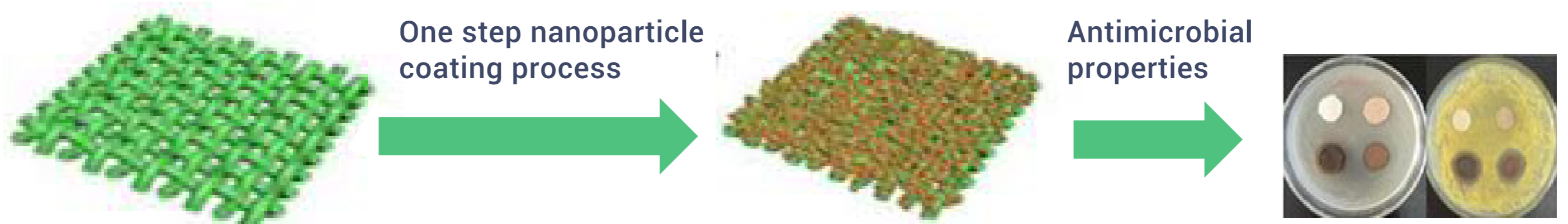
Why SooperCoat?



Nanoparticles are ultra fine particles of diameter between 1 to 100nm. They are not visible to the eye and can be observed only under electron microscopes. Due to their size the physical and chemical properties are very different from bulk particles such higher surface area by volume ratio, higher surface charge, conductivity etc.

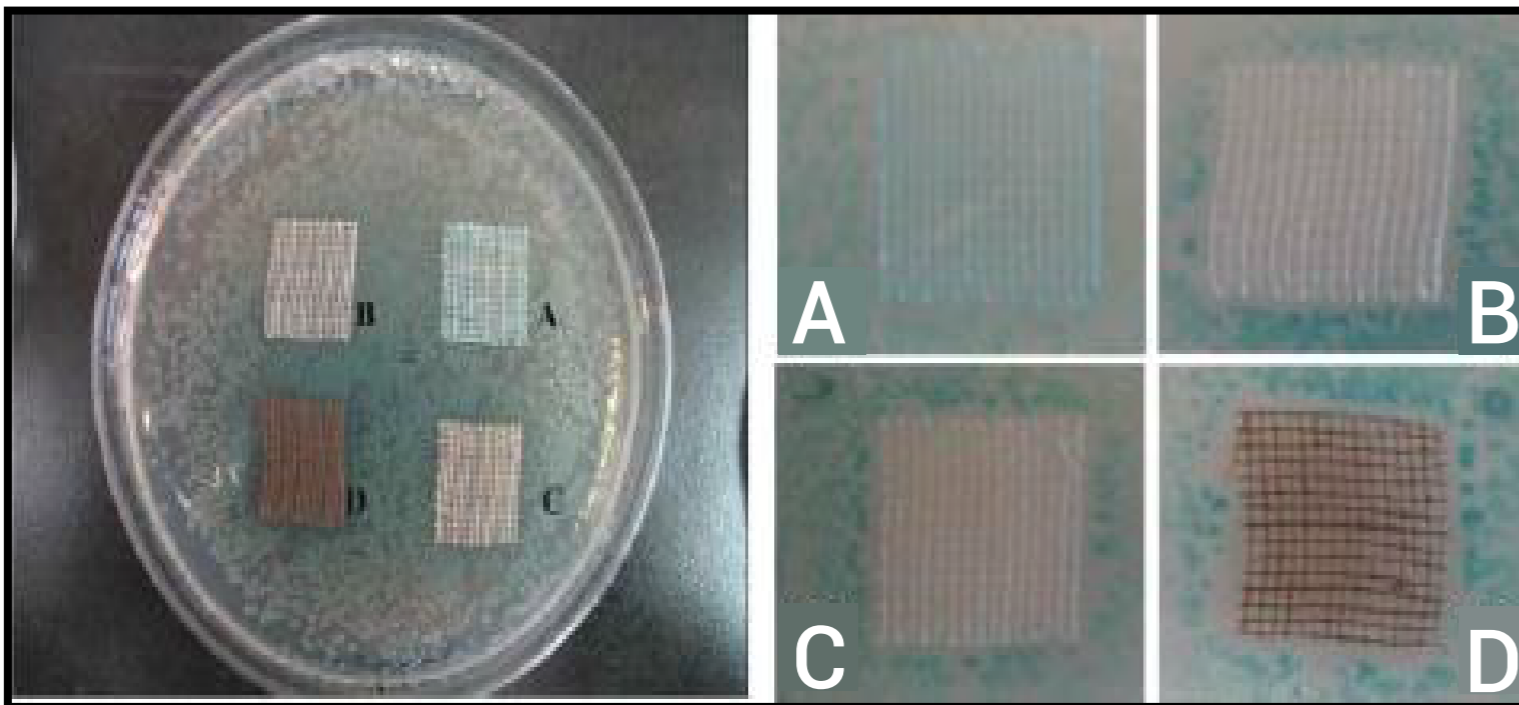


Our revolutionary one-step coating process is an easy to apply approach for functionalizing textiles with nanocoatings for superior dirt and microbe resisting properties tested extensively at our lab.



SuperCoat Advantages

SooperCoat
FOR FABRICS Virus Destroying Solution



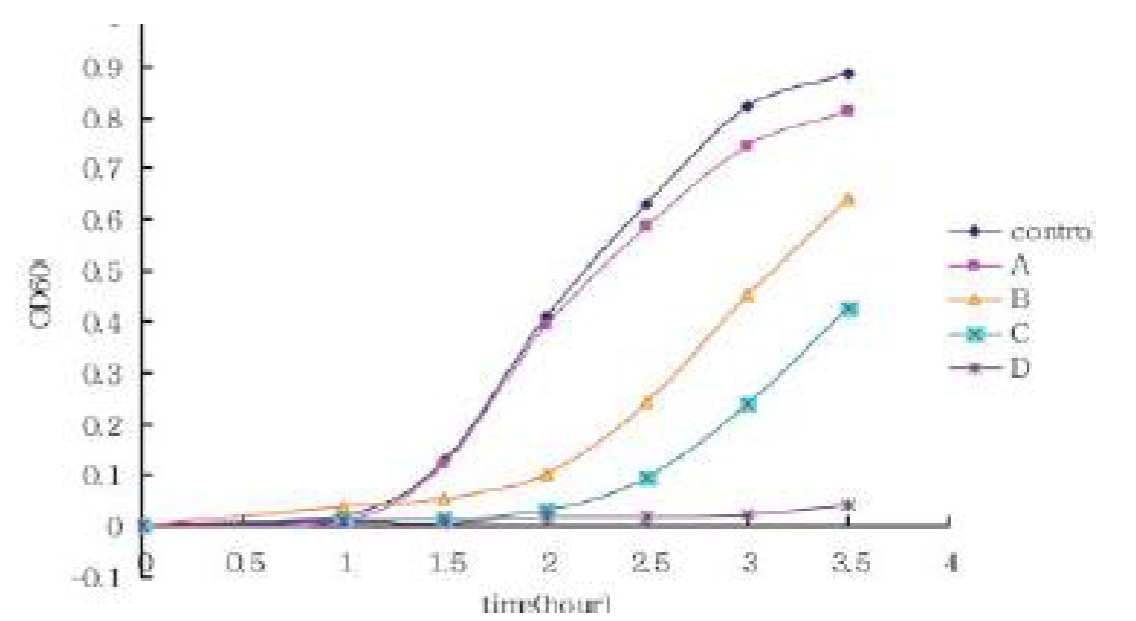
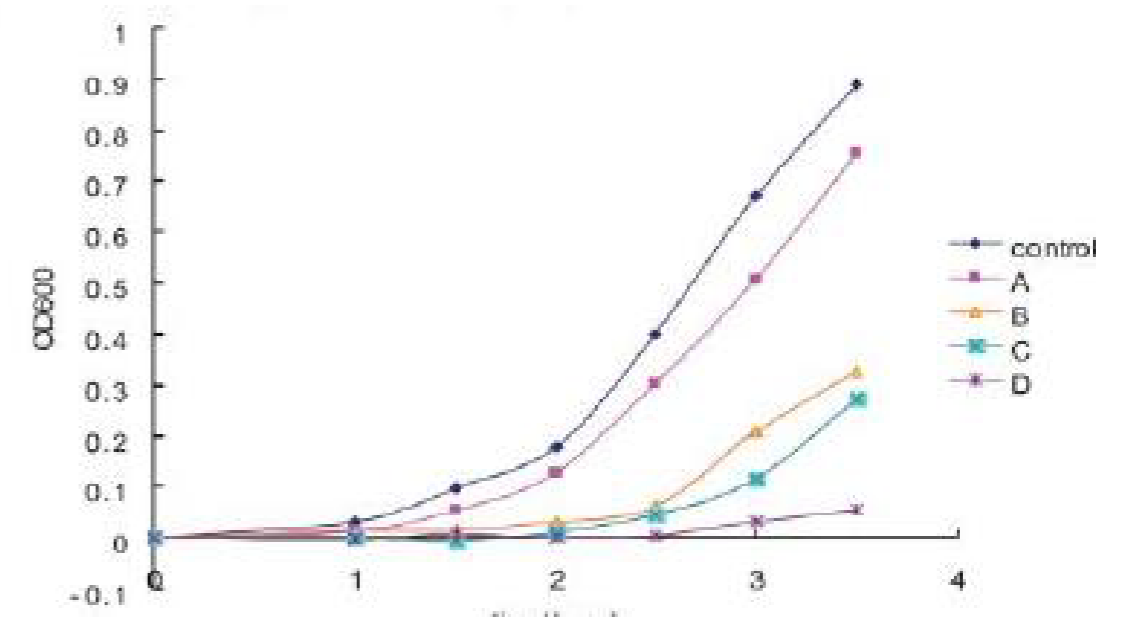
Growth inhibition of bacteria with coated cotton fabric on agar plate

A: Uncoated cotton fabric

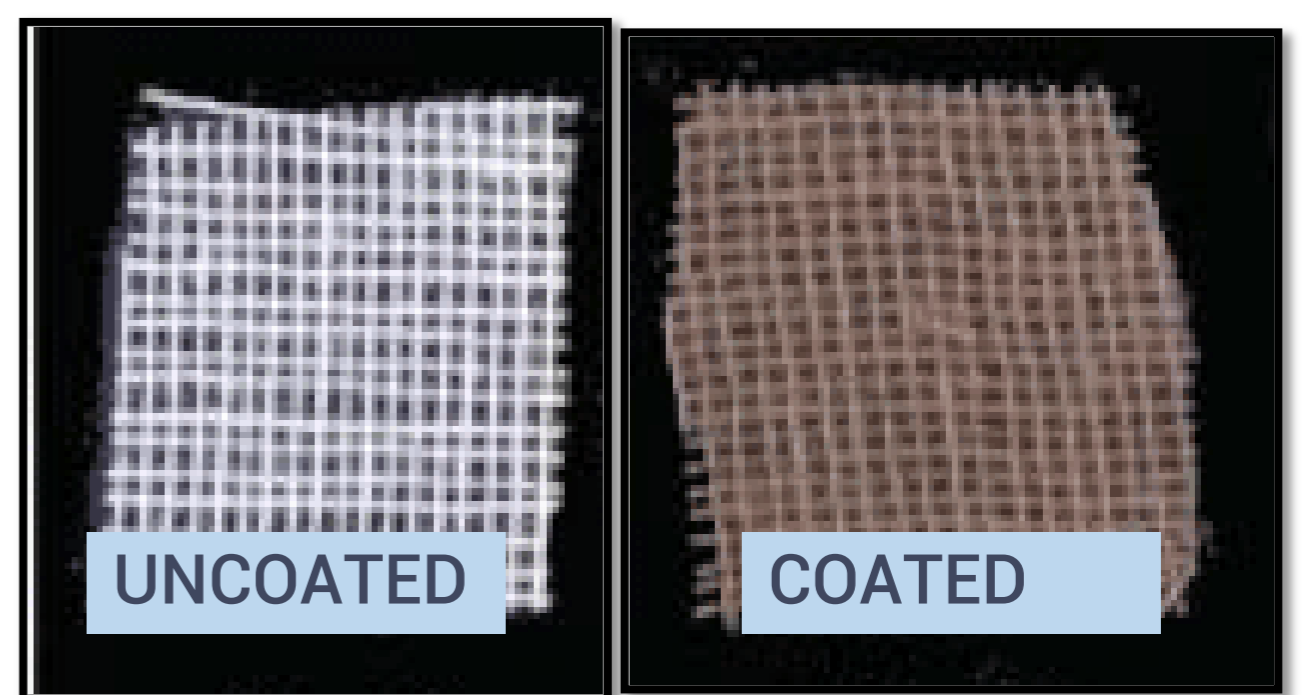
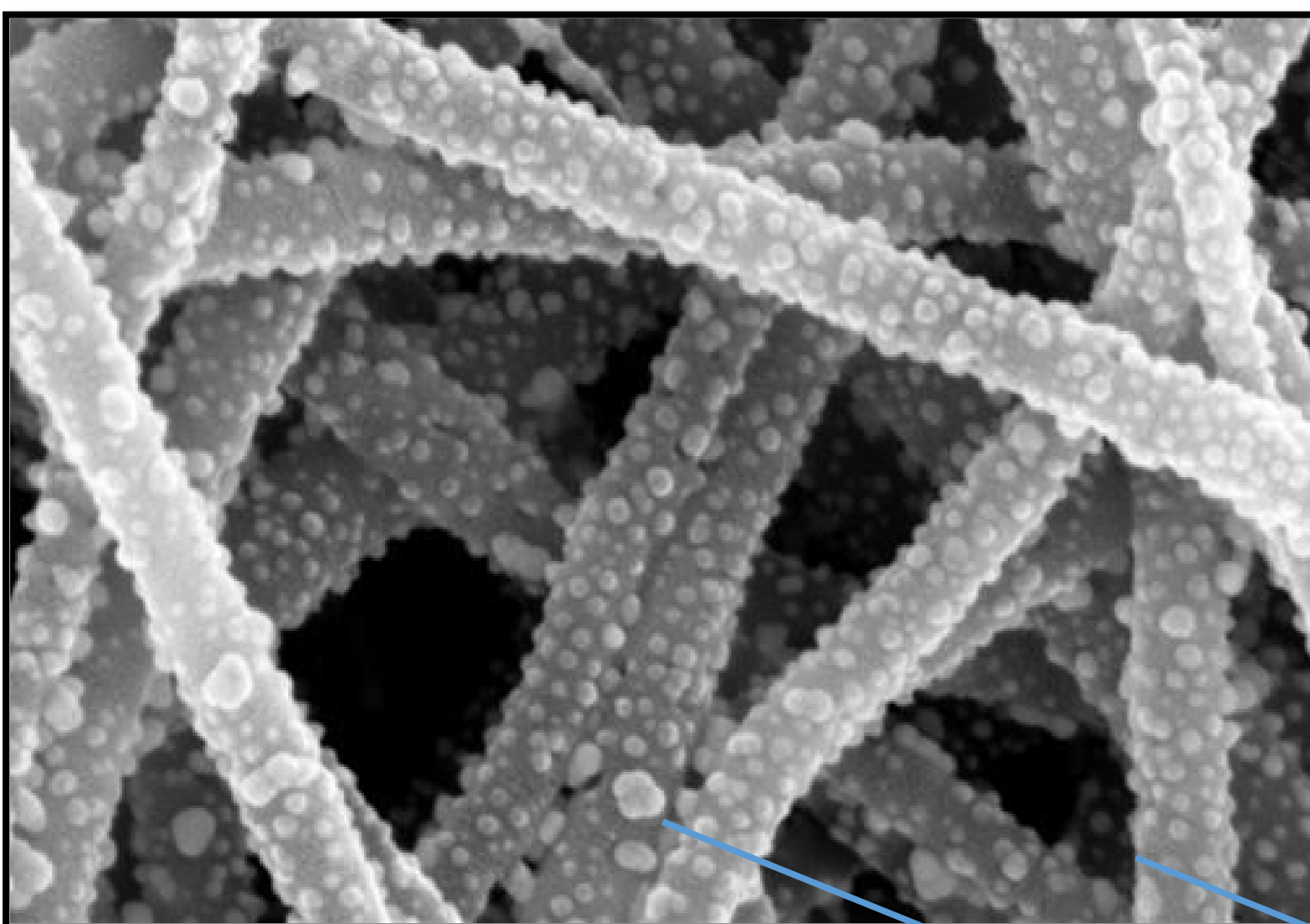
B: Coated fabric (low loading)

C: Coated fabric (Medium loading)

D: Coated Fabric (High loading)



Antimicrobial effects against
S.aureus and E.coli



Nanoparticles

Cotton fabric

Electron microscopic structure at high resolution and magnification showing antimicrobial nanoparticles crosslinked with cotton fabrics for longer durability and resistance

Application Areas

SooperCoat
FOR FABRICS **Virus Destroying Solution**



APPARAL



SPORTS WEAR



MEDICAL PPE



SHOE TEXTILE

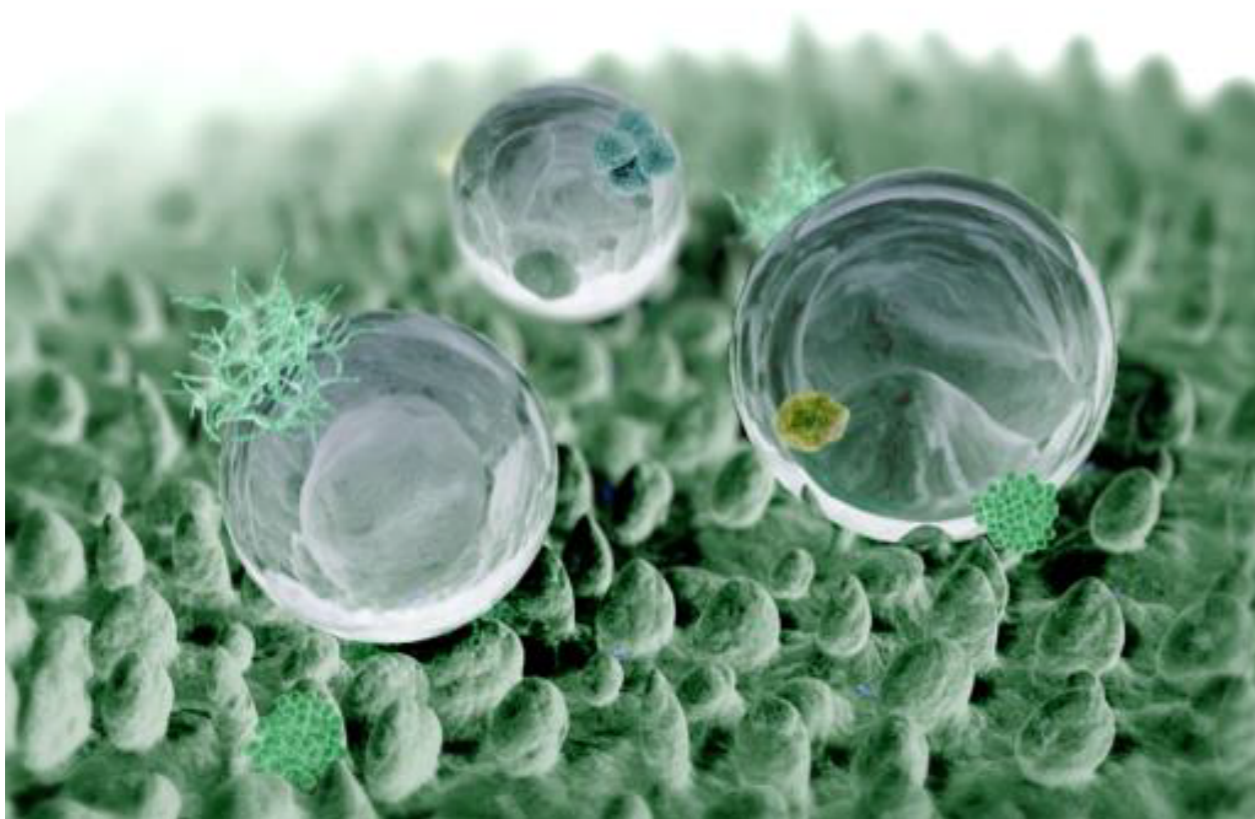


FURNITURE TEXTILE



MILITARY TEXTILE

The self-cleaning lotus effect



Nanopatterned surfaces can exploit the Lotus effect, causing them to be hydrophobic enough for water droplets to ball up and roll off the fabric surface, removing dirt particles in their path



Self cleaning effect on lotus

The age of smart textiles

SooperCoat
FOR FABRICS **Virus Destroying Solution**



ECO FRIENDLY



ANTI-MICROBIAL



BREATHABLE



WASHABLE

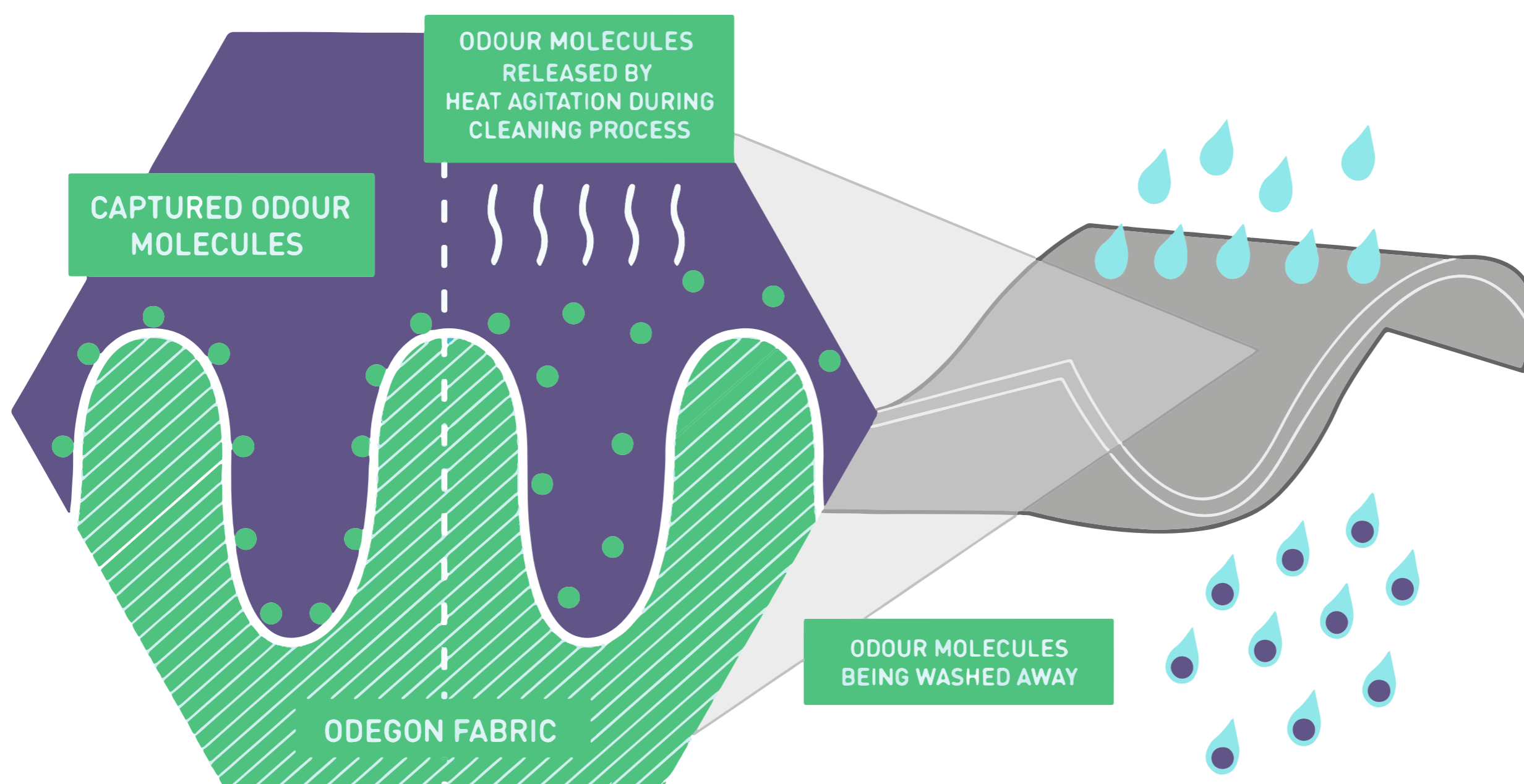


**WATER & DIRT
REPELLING**



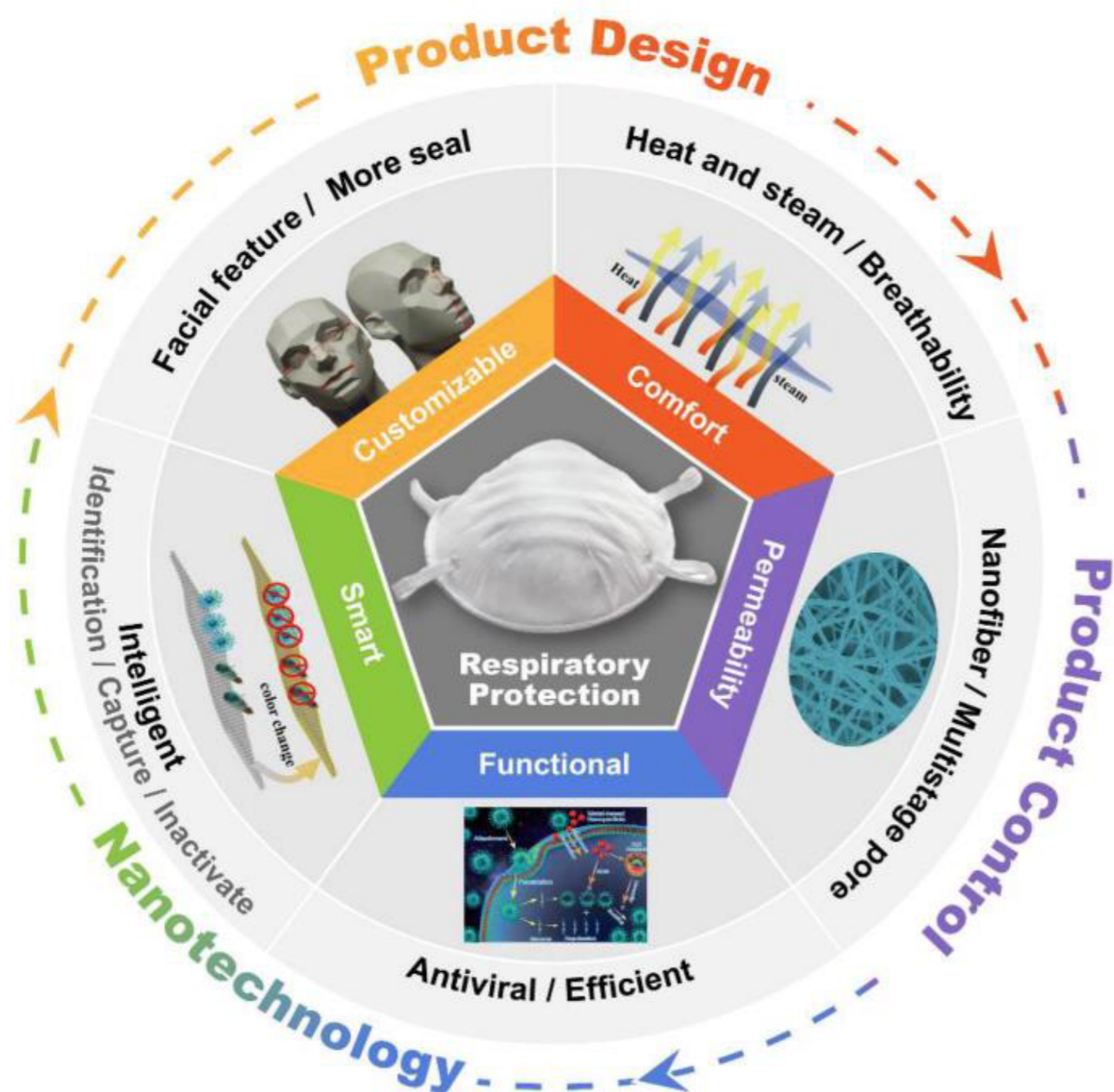
HYPOALLERGIC

Our nanoparticle fortified textiles are extremely durable and abrasion resistant allowing them to retain antimicrobial properties even after several washes. They are also suitable for all skin types without causing any allergic reactions to sensitive skin. With dirt and water repelling properties, these are indeed

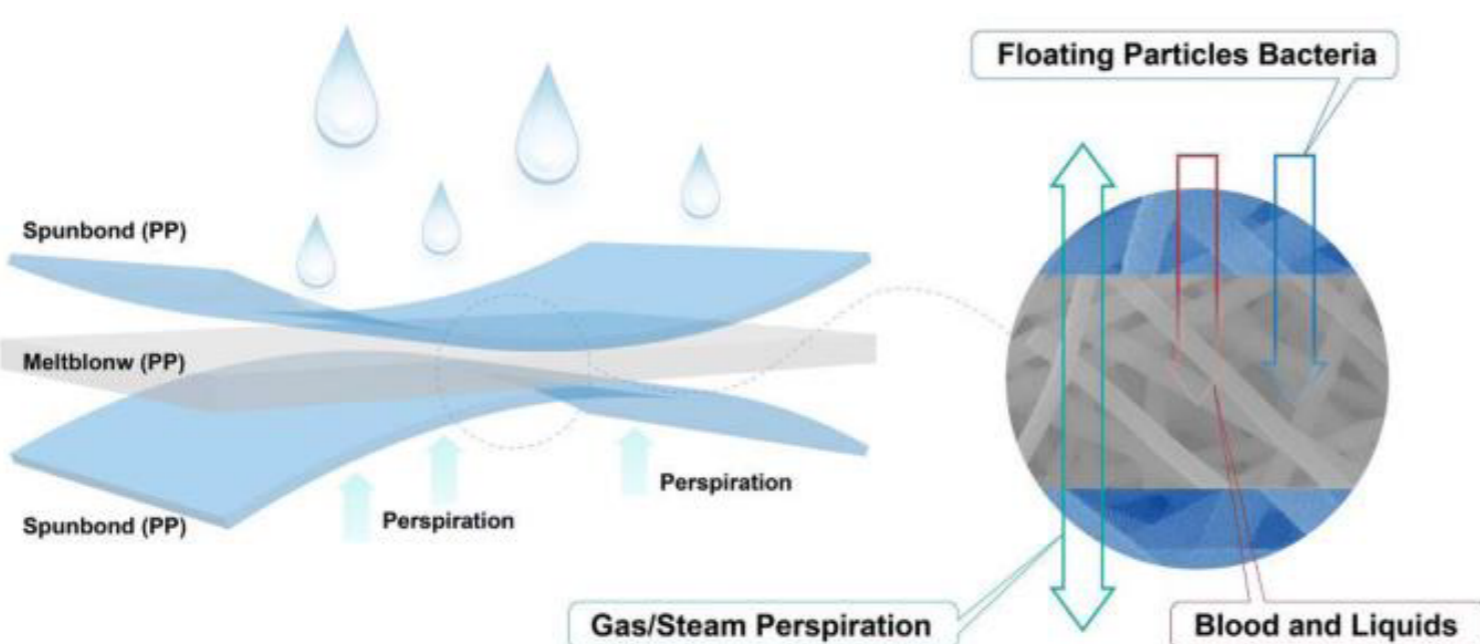


An intelligent, antiviral protection

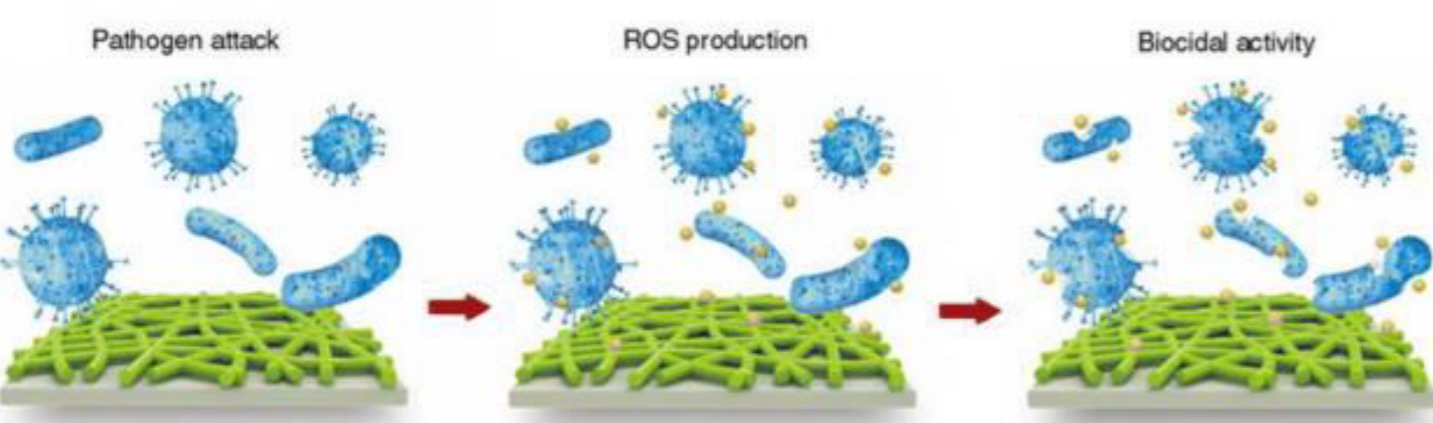
SooperCoat
FOR FABRICS **Virus Destroying Solution**



SuperCoat has been adapted to human face, skin and body, and to control the unwanted effects such as accumulation of heat and moisture during usage. To improve the filtering efficiency and breathing without risks, we have modulated structural parameters such as diameter of the fibers, size of the holes and thickness of the filtering materials. Moreover application of nanotechnology has enhanced the entrapping potential, antiviral capabilities and intelligence of protective fabrics.



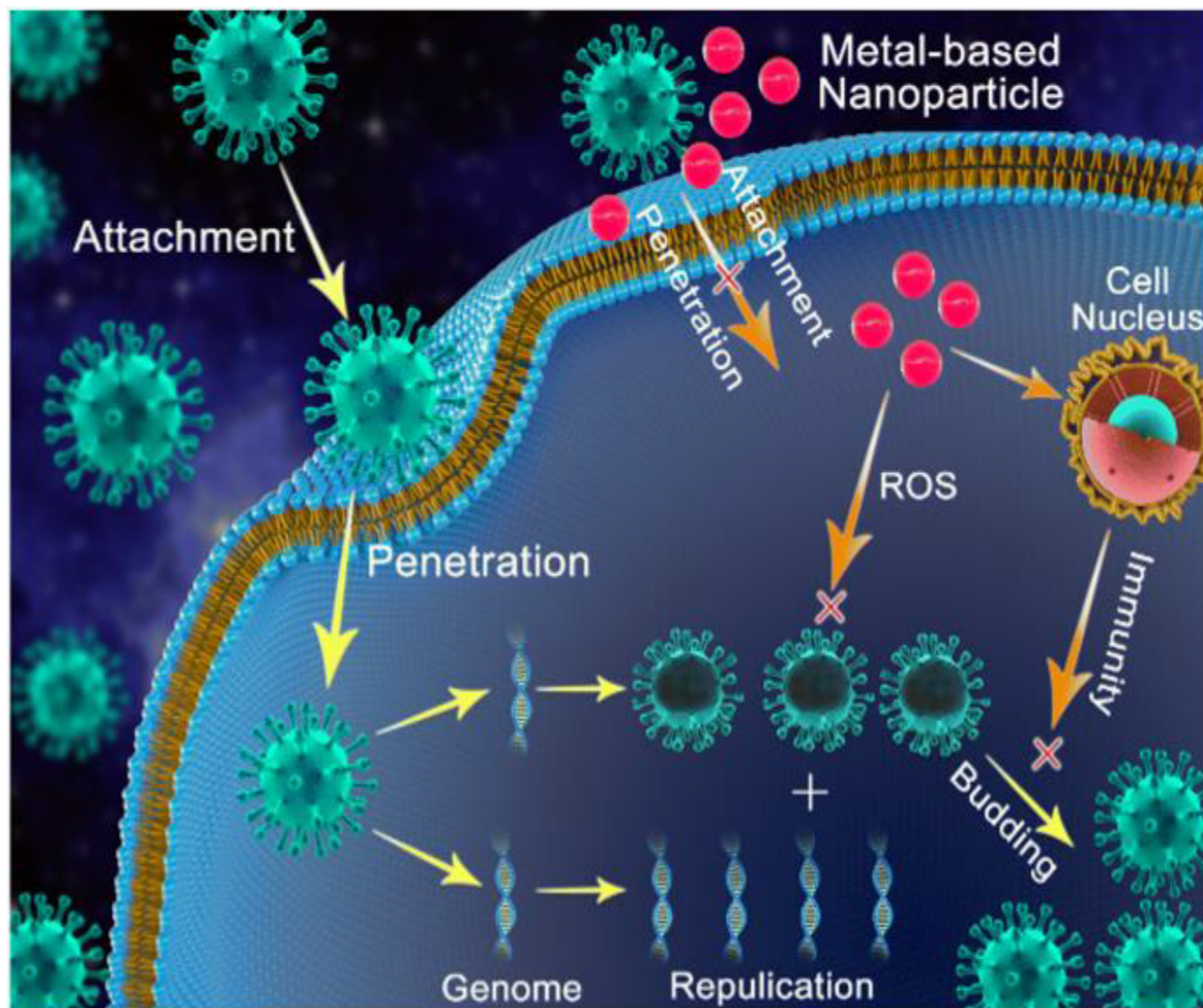
Regular fabric



Intelligent fabric

In most of the regular protective fabric, the protection performance is mainly determined by the filtration characteristics of the filled non-woven layer (including filtration thickness, packing density, fiber diameter, fiber charge) and particle characteristics (diameter, density and velocity). If the surface of the protective fabric is contaminated with droplets during the practical applications, viruses could penetrate through the moist fabric. Imparting antiviral properties to the fabric can reduce the risk of cross-infection or secondary infection during the usage or handling.

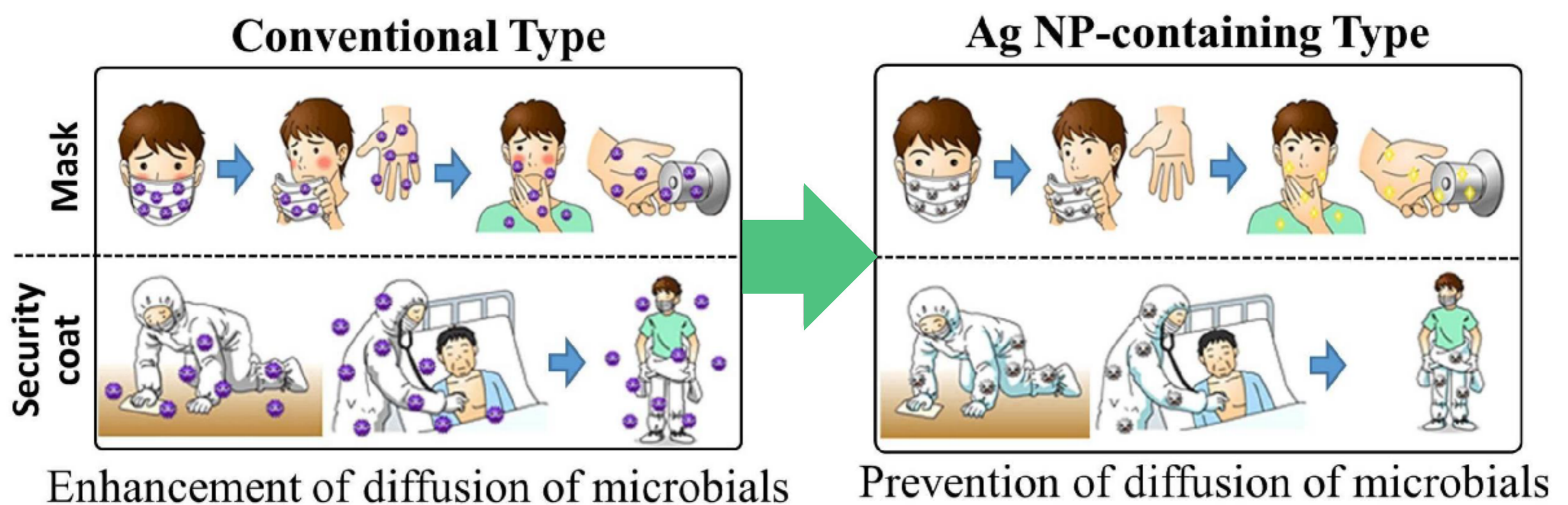
An intelligent, antiviral protection



Antiviral action of metal nanoparticles occurs in three stages

- (1) Inhibiting the virus attachment penetration
- (2) Generation of highly reactive oxygen species and radicals which destroy the structure and function of viral proteins and nucleic acids
- (3) Stimulating immune response in host. Harnessing the powerful potential of nanotechnology, we have developed coated fabrics which are antimicrobial in true sense.

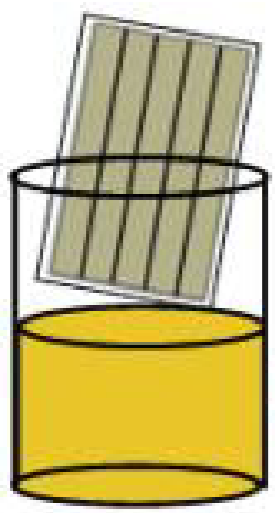
PROTECTION OF HEALTHCARE WORKERS



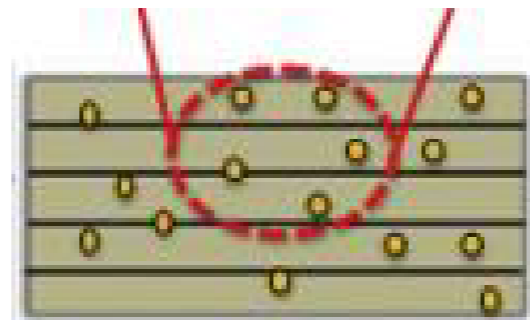
Antiviral nanoparticle coatings are a savior for healthcare workers by providing round the clock protection from infected medical consumables and direct patient contact.

Antiviral coating

Fabric soaking



Nanoparticle colloidal solution



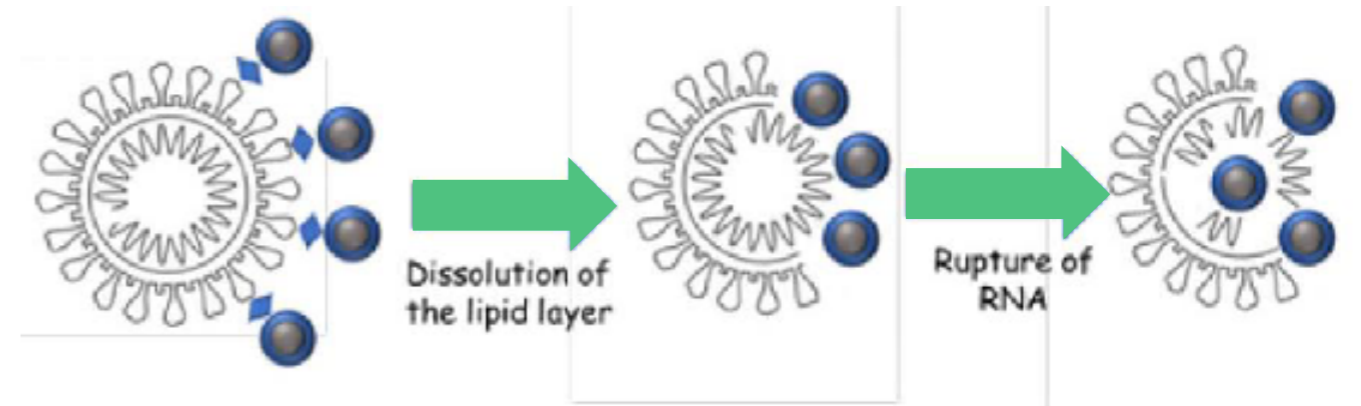
Treated fabric



Uncoated



Nanocoated

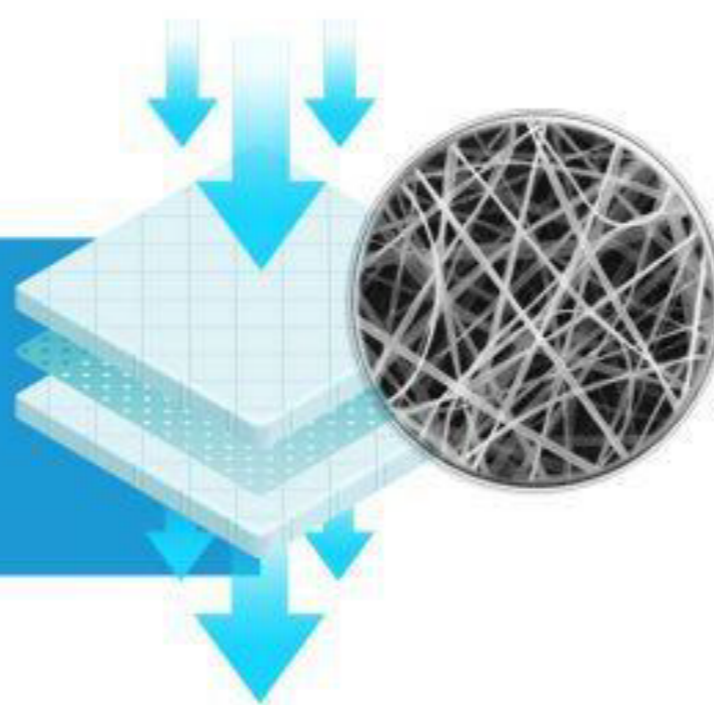


CONTAMINATION
FREE

RE-USABILITY

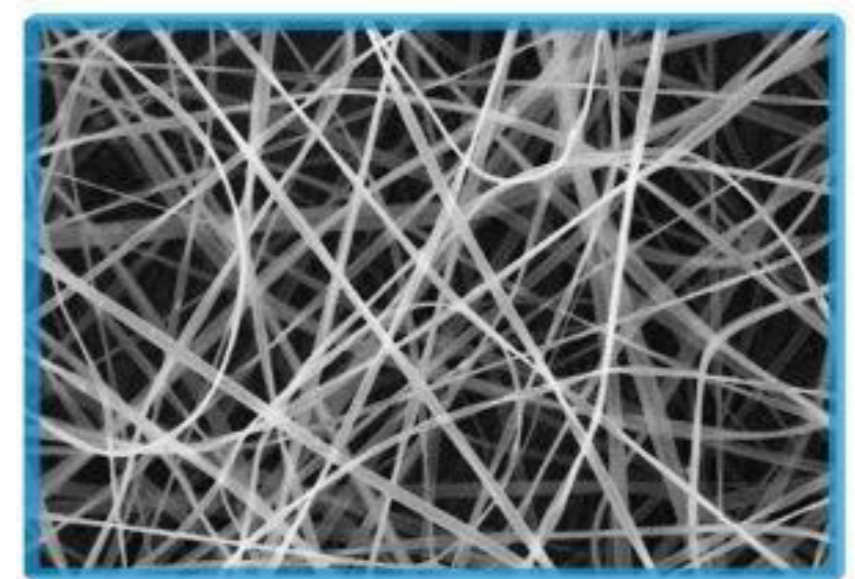
NO CROSS
CONTAMINATION

Nanofiber Mask



Non-woven Layers

Nanofiber
Layer



- 99.9% Filtration Efficiency
- More Comfortable
- Easier Breathing
- Less Layers

Certificates

SooperCoat

FOR FABRICS Virus Destroying Solution

Green Lab Analysis & Research Centre Pvt. Ltd.
A-74, Naraina Industrial Area, Phase-I, New Delhi-110028
Tel.: 011-42240220
E-mail: info@glarc.in
Website: www.glarc.in

RESULT OF ANALYSIS

ISO 9001:2015
Govt. Approved Testing Lab

Submitted By: Organic121 Scientific private limited
298, HUDA block, sector 55, Sushant lok-2, Gurgaon-122003

Report No.: GLARC/PH-2006180126
Received On: 18-06-2020
Mfg. Lic.No: 42/UA/20096
48/UA/SE/P-2008
N.S

Sample Product Code: OS121COV20

Manufactured By: Organic121 Scientific private limited
Supplied By: Organic121 Scientific private limited

Batch No.: 08/06/20/1
Mfg. Date: 06/2020
Expiry Date: 06/2021

Ref Date: 18-06-2020
Batch Size: 25.0 Litre.
Sample Qty.: 3x500.0ml

Reference Description: Manufacturer's Specification
White liquid.

Alcohol: Free from alcohol

Organism Used: E.coli, S.aureus, Pseudomonas Aeruginosa, Enterococcus Faecalis, Staphylococcus Epidermidis

Test Method: IS: 15185 : 2016, IS: 5887 (P-2)-1976, IS: 14648 : 2011, IS: 16266 (P-2) 2018, ISO: 7899 (P-2)2000

Note: This sample is effective against above test organism only, Germs, Bacteria and Viruses.

GLARC

Note: Party asked for above test only.

Date: 26-06-2020

Person in-charge

APEX TESTING AND RESEARCH LABORATORY

9/50, Kirti Nagar, Industrial Area, New Delhi-110015
E-mail: info.apex2015@gmail.com, apextesting_researchlab2015@gmail.com
Website: www.atrl.in, Tel.: 011-47081611, +91-8376945025
ISO 9001:2015 | ISO 14001:2015
ISO 45001:2018 Certified | Govt. Approved Lab

TEST REPORT

Issued To: M/s. Organic121 Scientific Private Limited
298, Huda Block, Sector-55
Gurgaon, Haryana-122003

Nature of the Sample: Antimicrobial Disinfectant

Customer Ref. No: N.S
Brand Name: COVIDCOAT
Batch No.: 05/06/20/1
Mfg. Date: 15/06/2020
Sample Drawn By: Party

Report /Sample No.: AS1520200623003
Date Of Receipt: 23.06.2020
Date of Issue: 02.07.2020
Test Started On: 26.06.2020
Test Completed on: 02.07.2020
Sample Quantity: 1 ltr.
Sample Pkg.: Bottle
Best Before Date: 15/06/2021
Product Code: OS121COV20
Any Information: Long Lasting Disinfectant

Sr. No	Test Parameters	Units of Measurements	Results	Test Method
1	Antibacterial Efficiency For 30 sec contact time	%	99.9	EN 1650

Sr. No	Test Parameters	Units of Measurements	Results	Test Method
1	Antibacterial Efficiency For 1 day contact time	%	99.9	EN 1650

Summary: Fungal cultures are grown, mainly Aspergillus brasiliensis or Candida albicans. The solution is mixed then allowed to rest for one or more contact times. After contact times elapse, sample of mixture are neutralized and evaluated for microbiological plating techniques. Populations after treatment are compared to controls to determine microbial reduction.

End of Report

S.No.	Parameter	Test Result	Protocol
1	pH	7.5	ALPHA 22nd Edit
2	Total Bacterial Count	99.996% elimination	IP 2018
3	Surface disinfection test	No growth up to 18 hours	Hard Surface Carrier
4	Suspension Test Growth Detection	No Growth	AOAC Use-dilution test
5	Total Viral Count	99.9996% elimination	IP 2018

Quantitative Assessment of Activity - JIS Z 2801: 2010

Untreated: Conc. of Inoculum on untreated sample at 0 hours (A): 1.12×10^4	Log = 4.04			
Untreated: Conc. of Inoculum on untreated sample after 10 minutes (B): 1.16×10^4	Log = 4.06			
Sample Identification	No. Bacteria on treated sample(C)	Log of Bacteria on treated sample	Antimicrobial Activity R Log B-CQ	Microbial Kill (%Reduction)
Covid Coating	<10	<1	>3.06	>99.9

Staphylococcus aureus 6538

Quantitative Assessment of Activity - JIS Z 2801: 2010

Untreated: Conc. of Inoculum on untreated sample at 0 hours (A): 1.18×10^5	Log = 4.07			
Untreated: Conc. of Inoculum on untreated sample after 10 minutes (B): 1.21×10^4	Log = 4.08			
Sample Identification	No. Bacteria on treated sample(C)	Log of Bacteria on treated sample	Antimicrobial Activity R Log B-CQ	Microbial Kill (%Reduction)
Covid Coating	<10	<1	>3.08	>99.9

E.Coli ATCC 8739

Quantitative Assessment of Activity - JIS Z 2801: 2010

Untreated: Conc. of Inoculum on untreated sample at 0 hours (A): 1.2×10^4	Log = 4.07			
Untreated: Conc. of Inoculum on untreated sample after 10 minutes (B): 1.28×10^4	Log = 4.10			
Sample Identification	No. Bacteria on treated sample(C)	Log of Bacteria on treated sample	Antimicrobial Activity R Log B-CQ	Microbial Kill (%Reduction)
Covid Coating	<10	<1	>3.10	>99.9

Pseudomonas aeruginosa ATCC 9037

SuperCoat for fabrics properties

SooperCoat
FOR FABRICS **Virus Destroying Solution**

S.No	MICROBE	Initial bacteria count (CFU/ml)	Final bacteria count (CFU/ml)	Log reduction	%Reduction
1	E.Coli 10536	6.003	0.64	5.36	99.999%
2	S.Auereus ATCC 6538	6.54	1.186	5.26	99.999%
3	E.Hirae 10541	6.458	0	6.46	99.9999%
4	Listeria monocytogenes	6.101	0.669	5.43	99.999%
5	Pseudomonas aeruginosa	6.454	1.885	4.56	99.99%
6	Bacillus cereus	5.966	0.556	5.441	99.999%

SooperCoat

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BY

**Sooper
Products**

Contact us for
more details.

PROTECTED BY



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