

## COVID-19

#### **Protective Nano-silver Coated**

#### FACEMASK

Face masks are widely used by medical workers as part of droplet precautions when caring for patients with respiratory infections. It would be reasonable to suggest vulnerable individuals avoid crowded areas and use surgical face masks rationally when exposed to high-risk areas. As evidence suggests COVID-19 could be transmitted before symptom onset, community transmission might be reduced if everyone, including people who have been infected but areasymptomatic and contagious, wear face masks. To make the face mask more cost efficient as well as antibacterial, a team of scientists is developing a protective silver nano-coating that would greatly help in making medicated masks and medical wear for

fighting COVID-19. Researchers developed the coating using a combination of common polymers such as Polyphenylene Ether (PPE) and nano silver colloidal suspension. Silver nano dispersion (AgNPs) is wellknown to exhibit a strong antimicrobial activity against various microorganisms such as bacteria, viruses, and fungi due to its smaller in size and large surface area. Silver nano dispersion is also widely used as anti-fungal, anti-inflammatory and anti-viral properties. Thus, the combination of anti-microbial polymer and silver nanodispersion is expected to provide a synergistic antiviral effect and these materials used would make it a cost-effective solution.

## Quick FACTS

Product Face mask

Stock No NS6130-10-1515

Nano coating: Silver nanoparticles

Color Melt Brown

Melt blow material (Non Woven Fabric) Material used:

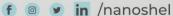






















Type : 3 Layers with ear loops

Available Size : 7"\*4" (17.7cm \* 10.1cm)

Function : Protection against COVID 19

Disposable : Yes

### Additional

### Powder Characteristics

Stock No.	Bacterial Filtration Efficiency	Pore Size
NS6130-10-1515	99.9%	3 Micron









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### **Special Properties**

### of Face-mask

- ✓ Strong antimicrobial activity against various microorganisms
- ✓ Large surface area
- ✓ Anti-fungal
- ✓ Anti-inflammatory
- ✓ Anti-viral properties
- ✓ Anti-microbial properties
- ✓ Cost-effective solution

# **Technical**Specification

Molecular Formula	Molecular Weight	Density	Melting Point	Boiling Point
Ag	107.87 g/mol	0.04-5g/cm3	>1600 °C	2230 °C



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### **Donning**

### Instructions

- ✓ Place over nose and mouth with blue side out & p; nose clip up
- √ Secure ear loops around the ears
- √ Secure nose clip
- √ Secure mask under chin opening pleat

# Ordering Information and Stock Availability

- ✓ Product: Nano-silver coated face mask
- √ Stock Availability: Available
- ✓ Distribution: Global
- Packing Sizes: 100 Pack, 500 Pack, 500 Pack, 2000 Pack Bulk Order

### **Handling** Recommendations

- ✓ Store in the original container in a dry location.
- ✓ Tumble contents prior to use to prevent segregation.
- ✓ Open containers should be stored in a drying oven to prevent moisturepickup.

### **Safety** Recommendations

Download MSDS/SDS NS6130-10-1515

SDS are available from the Nanoshel

Website at

https://www.nanoshel.com/product/protective-nano-silver-coated-3-ply-face-mask

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