



Protecting You with Science.

Anti-Viral Mask

- ASTM Level 3 surgical mask
- Adult & child sizes



N95 Respirator Plus

- NIOSH approved surgical N95
- S/M/L sizes



- FDA cleared Virax™ virucidal technology
- Destroys 99.99% of coronavirus[†] and measles within 1 minute*
- Destroys 99.99% of 15 flu viruses within 5 minutes*

[†] Tested using human coronavirus 229E, a recognized surrogate for SARS-CoV-2, which causes COVID-19

* Upon contact with outer surface of mask



Protecting You with Science.

RespoKare® Virax™

“Destroys 99.99% of coronavirus, measles, and 15 flu viruses within minutes.*”

Effectiveness

“10,000 times more effective than an ordinary mask.†”

- The outer layer wicks potentially infected droplets from the surface to reduce chance of cross contamination if touched.
- Designed to achieve especially low airflow resistance for easy breathing.
- Constructed with soft materials for comfort.
- 4 layers for maximal protection with highest ASTM level 3 fluid penetration resistance.

Innovation

“The original virucidal mask, invented in the U.S.”

- Years of research in advanced virucidal technology culminated in an original face mask with fast-acting antiviral properties.
- The Virax™ coating traps the viruses that are then destroyed by copper and zinc ions.
- The Virax™ coating is formulated using a patented combination of commonly used food additives that are proven safe and effective.

Reliability & Safety

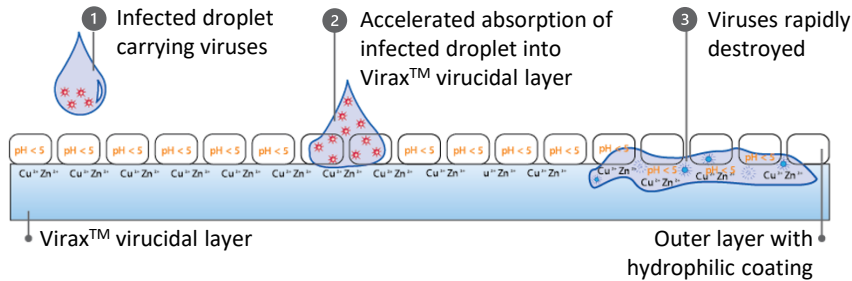
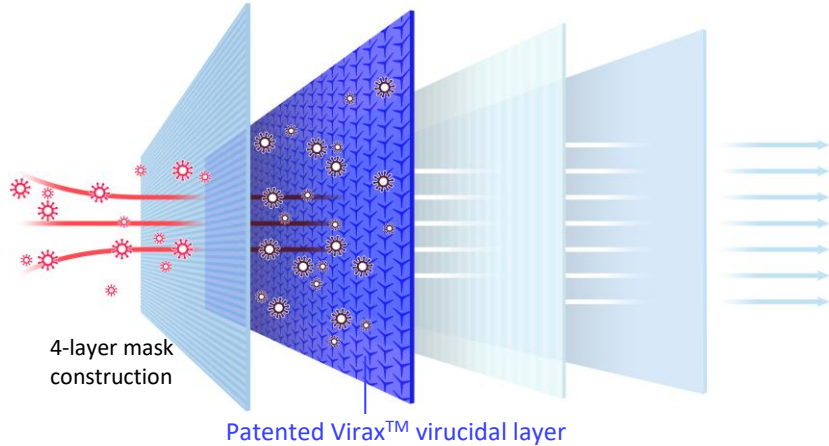
“Meets or exceeds U.S. and international standards.”

- ASTM F2100 level 3 surgical grade face mask.
- NIOSH approved surgical N95 respirator.
- Tested for compatibility with skin contact and safety from extractables under ISO 10993.
- ISO 13485 certified and NIOSH inspected manufacturing facilities.

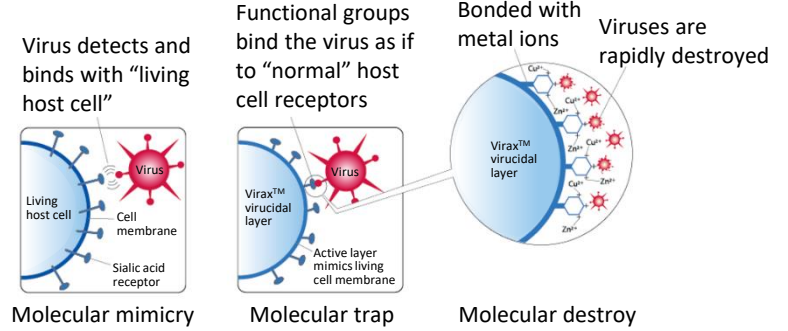
* Destroys 99.99% of human coronavirus 229E and measles virus within 1 minute, and 15 flu viruses within 5 minutes upon contact with the mask surface. Human coronavirus 229E is a recognized testing surrogate for SARS-CoV-2 which is the cause of COVID-19.

† Laboratory tests show at least a 4-log reduction (99.99%) of coronavirus, measles and flu viruses upon contact with the mask surface.

Virax™ Technology – How It Works



The outer layer coating is hydrophilic, allowing infected droplets to be rapidly absorbed and trapped. The coating's low pH environment starts to denature and damage the surface membrane of viruses within 5 seconds. Infected droplets are quickly wicked away from the outer surface into the Virax™ virucidal layer where the viruses are trapped and destroyed.



The Virax™ virucidal layer is a non-woven rayon material treated with active functional groups that mimic the surface of living host cells containing sialic acid. Viruses bind to the sialic acid receptors becoming trapped in this layer and exposed to high localized concentrations of copper and zinc ions which destroy the viruses through ionic interaction with proteins and RNA or DNA.

Comparison	0 second	5 seconds	10 minutes
Ordinary mask Infected droplets remain on the surface of the mask, where it may cause contamination when touched.			
RespoKare® mask with Virax™ Infected droplets are wicked away from the surface of the mask and viruses are trapped and destroyed. The mask retains the highest level of fluid penetration resistance.			

Effectiveness

Laboratory tests show at least a 4-log reduction (99.99%) of coronavirus, measles, and influenza viruses upon contact with outer surface of mask.

Virus	Destroyed	Within
Human coronavirus 229E†	99.99%	1 minute
Measles (Paramyxovirus)	99.99%	1 minute
Seasonal flu viruses		
Human (H1N1), A/Brisbane/59/2007	99.99%	5 minutes
Human (H1N1), A/Wisconsin/10/1998	99.99%	5 minutes
Human (H1N1), A/New Jersey/8/1976	99.99%	5 minutes
Human (H3N2), A/Brisbane/10/2007	99.99%	5 minutes
Human (H3N2), A/Wisconsin/67/2005	99.99%	5 minutes
Human, B/Florida/4/2006	99.99%	5 minutes
Human, B/Lee/1940	99.99%	5 minutes
Pandemic flu viruses		
Pandemic (H1N1), A/California/04/2009	99.99%	5 minutes
Human (H2N2), A/2/Japan/305/1957	99.99%	5 minutes
Avian flu viruses		
Avian (H5N1), NIBRG-14	99.99%	5 minutes
Duck (H5N2), A/Duck/PA/10218/84	99.99%	5 minutes
Avian (H9N2), A/Turkey/Wisconsin/1966	99.99%	5 minutes
Swine & equine flu viruses		
Swine (H1N1), A/Swine/1976/1931	99.99%	5 minutes
Equine (H3N8), A/Equine/2/Miami/1963	99.99%	5 minutes
Other flu viruses		
Human (H1N1), A/Puerto Rico/8/1934	99.99%	5 minutes

† A recognized surrogate for SARS-CoV-2, which causes COVID-19

In independent laboratory tests simulating conditions of continuous use with virus exposure, the RespoKare® Anti-Viral surgical mask and N95 respirator effectively destroyed 99.99% of the virus challenge over an 8-hour period.‡



‡ “Assessment of Virucidal Effectiveness of Treated Face Mask Under Simulated Use Conditions – Influenza A Virus – Misting Study” conducted by Microbac Laboratories under GLP regulations (21 CFR §58)

Safety & Comfort

Safety

- The Virax™ coatings are formulated using a patented combination of commonly used food additives that are proven safe and effective.
- Tested for compatibility with skin contact and safety from extractables under ISO 10993.
- The mild scent on the mask surface is safe and comes from residual traces of acetic acid from the coating process. (Acetic acid is the same as white vinegar).

Comfort – Anti-Viral Mask

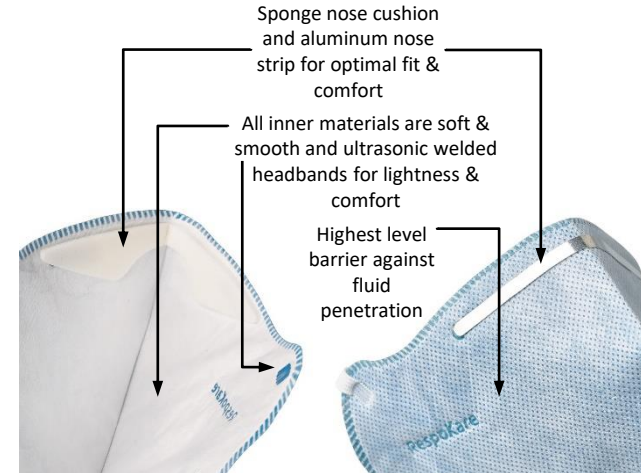
- The Anti-Viral surgical mask is designed to achieve especially low airflow resistance for easy breathing.†



† In ASTM F2100-19 testing, the Anti-Viral Mask achieved $\leq 3.8 \text{ mm H}_2\text{O}/\text{cm}^2$ (against a standard of 6.0 or less).

Comfort – N95 Respirator Plus

- The convex shape allows good positioning and fit on the face and folds flat for convenience.



Products

Anti-Viral Mask

Model no.: RK-200-2001A

Flat mask, 175 x 95 mm

1 Piece Pack

- Reusable bag with zip-lock
- Dimensions: 235 x 120 x 2 mm (h/w/d)



5 Piece Pack

- Individually plastic wrapped
- Box dimensions: 230 x 110 x 32 mm (h/w/d)
- Hanger height: 25 mm



24 Piece Pack

- Individually plastic wrapped
- Box dimensions: 105 x 230 x 140 mm (h/w/d)



Anti-Viral Mask (Child)

Model no.: RK-200-2005A

Flat mask, 145 x 95 mm

Recommended for children 5-10 years old

1 Piece Pack

- Reusable bag with zip-lock
- Dimensions: 205 x 120 x 2 mm (h/w/d)



10 Piece Pack

- Individually plastic wrapped
- Box dimensions: 200 x 110 x 64 mm (h/w/d)
- Hanger height: 25 mm



N95 Respirator Plus

Model nos.:

- RK-200-3040A: Small, 133 mm
- RK-200-3041A: Medium, 146 mm
- RK-200-3042A: Large, 175 mm



1 Piece Pack

- Reusable bag with zip-lock
- Dimensions (S/M) : 190 x 145 x 2 mm (h/w/d)
- Dimensions (L): 200 x 165 x 2 mm (h/w/d)



5 Piece Pack

- Individually plastic wrapped
- Box dimensions: 190 x 140 x 45 mm (h/w/d)
- Hanger height: 35 mm



30 Piece Institution Pack

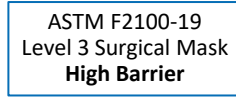
- Dispenser top, not individually wrapped
- Box dimensions: 140 x 285 x 105 mm (h/w/d)



Standards & Certifications

Anti-Viral Mask

- Adult & child sizes
- FDA cleared under product codes OUK, OXZ
- 510(k) numbers: K101128, K192105
- Entered in the ARTG, 339564
- Suitable for medical use



ASTM F2100-19 – Parameters	Level 1 Barrier	Level 2 Barrier	Level 3 Barrier
Bacterial filtration efficiency (BFE)	≥95%	≥98%	≥98%
Differential pressure, mm H ₂ O/cm ²	≤5.0	≤6.0	≤6.0
Particulate filtration efficiency (PFE) , @0.1μ	≥95%	≥98%	≥98%
Synthetic blood penetration resistance, mmHg	80	120	160
Flame spread	Class 1	Class 1	Class 1

N95 Respirator Plus

- FDA cleared under product code ONT
- 510(k) number: K122702
- Entered in the ARTG, 297583
- Suitable for medical use



Surgical N95 Respirator
High Barrier

NIOSH 42 CFR 84 - Parameters (Non-oil resistant respirator)	N95 Level	
Filtering performance, @ flow rate	≥95%	@85 L/min
Challenge particle, @0.3μ	NaCl	
Inhalation resistance, Pa @ flow rate	343	@85 L/min
Exhalation resistance, Pa @ flow rate	245	@85 L/min
Surgical N95 - Parameters	Level	Standard
Bacterial filtration efficiency (BFE)	≥98%	ASTM F2101
Synthetic blood penetration resistance, mmHg	160	ASTM F1862
Flame resistance	Class 1	16 CFR 1610

Company Introduction

Innonix Technologies is a global biomedical materials R&D company with numerous intellectual properties and patents developed by U.S. scientists.

The Company began research efforts in 2007, culminating in obtaining our first US FDA clearance in 2011 for a surgical mask with antimicrobial/antiviral agent, under the newly created FDA product code OUK. This mask with Virax™ technology is the genesis of the RespoKare® line of masks.

Millions of the RespoKare® antiviral surgical grade flat masks have been sold in the U.S. since 2013 under private label with one of the Country's largest medical suppliers. We are proud to now make RespoKare® available directly to the consumer and medical professionals.

Distributed Exclusively by:



Independent Medical Associates

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