



## ***Introducing the Next Generation of Respirators for Enhanced Protection***

*The lung diseases seen in 9/11 rescue workers, the illness and deaths in healthcare workers during the SARS outbreak and illness from post Hurricane Katrina clean-up highlight the need for more effective and reliable respiratory protection.*

# **Fitseal<sup>™</sup>**

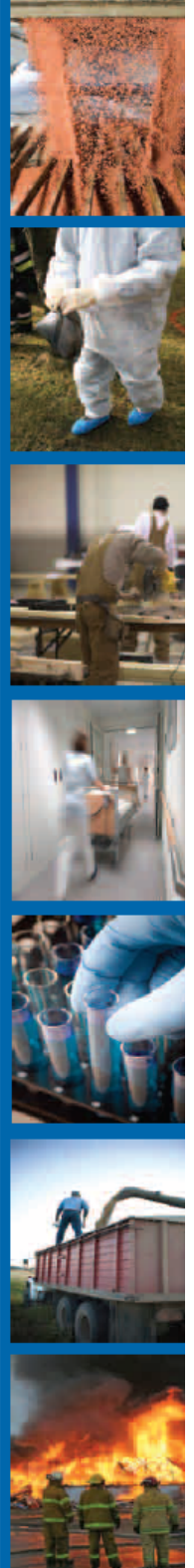
R E S P I R A T O R

## **Breathe with *confidence.***

The FitSeal<sup>™</sup> adhesion respirator, born after 5 years of R&D by world renowned aerosol scientists at leading universities and laboratories, is the next generation of filtering facepiece respirators for personal respiratory protection. Its patent-pending technology enables it to mold to most facial contours to form an adhesion seal between the respirator and the face (face-seal), minimizing the inward leakage common to conventional respirators that are held in place by straps or rubber bands and nose clips.

Fitseal<sup>™</sup> is the first and only one-size-fits-all (conforming to most facial contours) adhesion filtering facepiece particulate respirator (FFPR) approved by NIOSH under rule 42 CFR Part 84, and it has met the additional testing requirements for new technology as part of respirator certification, (Full details can be found at [facesealtechnologies.com](http://facesealtechnologies.com)). Fitseal<sup>™</sup> provides unsurpassed respiratory protection from disease-causing bacteria, viruses, allergens and toxic dust particles.

**“Respirators that don’t seal properly around the face offer only the illusion of protection”**  
*Occupational Safety and Health Administration (OSHA) Technical Manual, Section VIII*



# Fitseal™ lets you Breathe with Confidence

## Protection

- Two-way multi-layered advanced filtration media captures toxic, allergenic and infectious airborne particles
- Extremely low particle penetration of 0.3 micron-sized particles at an airflow rate of 85L/min
- Meets CDC guidelines for *M. tuberculosis* exposure control
- Puncture-, crush-, tear-, and fluid-resistant
- Synthetic Blood Penetration tested (ASTM F1862); no penetration observed in 32 samples
- Flame-resistant tested (FDA 16 CFR Part 1610 Class 1); no flame spread
- No exhalation valve that can spread disease-causing germs
- Maintains an effective adhesion seal, even if worn upside down
- "N" type Fitseal™ respirators can be used for up to 8 hours against particulate aerosols free of oil
- "P" type Fitseal™ respirators can be used without time restrictions for use against all particulate aerosols, including oily atmospheres
- Minimal accumulation of heat, carbon dioxide and moisture

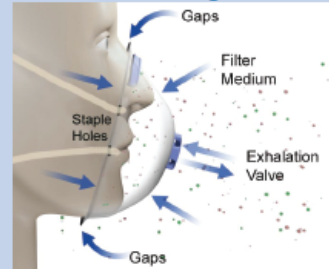
## Comfort

- Readily conforms to most facial contours
- Large surface area ensures comfort and allows for ease of breathing and talking
- One-size-fits-all design fits most of the general population
- Does not interfere with headgear
- Reduces fogging of glasses and other protective eyewear
- Uses an FDA-cleared adhesive that is safely employed in hospitals worldwide and has been tested by advanced skin research dermatology laboratories
- Hypoallergenic, latex-free and fiberglass-free
- Unsurpassed reliability and secure fit is maintained even during intense physical activity

## Practicality

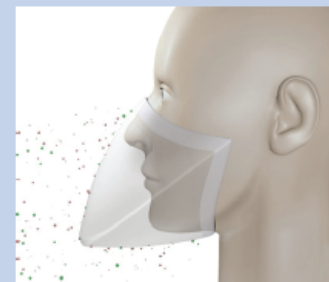
- Flat design for compact packaging and portability
- Eliminates the need to procure, re-test, and inventory multiple styles, sizes and makes of conventional respirators
- Assures availability at time of need
- Simplifies fit-testing procedures (reduces time and cost)
- Contains no metal components, so will not interfere with medical imaging technologies such as MRI, X-ray, Ultrasound, Proton Beam, and EMR

### Conventional Design



Conventional respirator design allows harmful airborne particles to bypass the filter element.

### Fitseal™



Fitseal™ Adhesion-Technology minimizes inhalation of harmful airborne particles.

## Fitseal™ Respirators

### recommended market segments

Frontline responders  
(Police, Fire, Ambulance)  
Medical and healthcare workers  
Travelers (business/personal)

Industry  
Food & agriculture  
Construction  
Laboratories  
Pharmaceutical manufacturing  
Military  
Government agencies  
Essential services  
(financial, commerce, postal)  
Delivery services  
Educational institutions  
Coroners & funeral homes  
Business to Business

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