

# SHIELD YOURSELF FROM CONTAMINANTS.

INNO TEX  
**GRAY**<sup>™</sup>

PARTICULATE-BLOCKING INTERFACES

 **INNO  
TEX**<sup>®</sup>

# SMOKE PARTICLE INFILTRATION: A TOXIC THREAT.

WHEN MATERIALS COMBUST, THEY RELEASE TOXIC FUMES FILLED WITH MICROSCOPIC CARCINOGENS.



## Invisible yet dangerously real, these toxic particulates pose a tangible risk to your health.

Hidden in smoke and soot, they make their way to your skin through the smallest openings. While the moisture barrier of your bunker gear blocks direct penetration by particulates, they can bypass this barrier at the garment interfaces and then be absorbed by the skin.

To make matters worse, you're working in hot environments, and for every 5-degree increase in skin temperature, your skin's permeability to toxic matter increases by 400%<sup>1</sup>. Research shows that cancer is now the leading cause of firefighter line-of-duty deaths in the United States<sup>2</sup> and the best way to reduce this risk is to prevent carcinogenic particulates from reaching the skin<sup>3</sup>.



INNOTEX® GRAY™ PARTICULATE BARRIER BLOCKS MORE THAN 99.9% OF PARTICLES DOWN TO 0.1 MICRONS.



AIR- AND MOISTURE-VAPOR PERMEABLE TO REDUCE HEAT STRESS.



EVEN AFTER 100 WASH/DRY CYCLES, INNOTEX® GRAY™ RETAINS 99.9% PARTICULATE-BLOCKING EFFICIENCY.

<sup>1</sup> The Firefighter Cancer Support Network

<sup>2</sup> NIOSH: National Institute for Occupational Safety and Health

<sup>3</sup> A 2017 study by the University of Ottawa.

A team of researchers working with Health Canada, the University of Toronto and the *Institut national de santé publique du Québec*, examined chemical exposure experienced by Ottawa Fire Service firefighters during on-shift, emergency fire operations between January 2015 and April 2016.

## HEAD-TO-TOE PROTECTION.

THE INNOTEX® GRAY™ PARTICULATE-BLOCKING INTERFACE PACKAGE HELPS IMPEDE THE ENTRY OF TOXIC PARTICULATES AT **FIVE CRITICAL POINTS**. ITS BUILT-IN STEDAIR® PREVENT PARTICULATE-BLOCKING BARRIER ACTS AS A FILTER, BLOCKING MORE THAN **99.9%** OF PARTICULATES WHILE ALLOWING CLEAN AIR TO FLOW THROUGH.



### 1. HEAD & NECK

Offered in 4 configurations, INNOTEX® GRAY™ hoods all feature the industry-leading Stedair® PREVENT particulate barrier. The extra-long 24" bib and ergonomic design ensure a proper seal with your SCBA - regardless of head movement.



### 2. WRISTS

The knit wristlet and the sleeve-well both include a layer of Stedair® PREVENT particulate barrier so the protection extends all the way to the end of the wristlet instead of only to the top end of the sleeve-well. This ensures the ultimate coat-to-glove-interface seal, preventing the entry of particulates no matter how you move your arms.



### 3. WAIST

An internal storm band with elasticized edges and no-gap hook & loop closure hugs your mid-body for a secure 360° shield at the coat-to-pant interface. The hook & loop closure ensures the particulate-blocking storm band stays put and that no gaps appear when you move.



### 4. PANT CLOSURE

In-house tests have shown how the pant closure area is particularly vulnerable to smoke entry. Our INNOTEX® GRAY™ interface is a highly-effective solution to particulate penetration in this critical area.



### 5. ANKLES

Run, jump, crawl, climb: this calf protector with elasticized ankle shield stays snugly in place to prevent particulates from entering at the boot-to-pant-leg interface.





[innotexprotection.com](http://innotexprotection.com)

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