

# WEAR THE HOOD THAT'S WAY AHEAD.



INNO TEX  
**GRAY**™

PARTICULATE-BLOCKING HOODS

 **INNO  
TEX**®

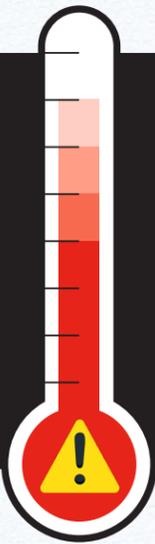
# INNOTEX® GRAY™ PARTICULATE-BLOCKING HOODS: SHIELD YOURSELF FROM CONTAMINANTS.

## TOXIC MICROSCOPIC CARCINOGENIC PARTICLES CAN TRAVEL THROUGH TRADITIONAL KNITTED HOODS.

When you set foot on the scene of a fire, you immediately come in contact with microscopic carcinogenic particles generated by burning materials. While we know that breathing in these cancer-causing particulates is dangerous, studies show that absorption of such toxins through the skin is just as harmful.

Unseen and imperceptible, these toxic microscopic particulates can travel through traditional knitted hoods and accumulate on your skin, especially on the highly absorptive areas of the neck, jaw and throat. As a firefighter, you face intense heat and work up a sweat. All this heat opens up skin pores, increasing its ability to absorb toxins.

Traditional hoods were designed to protect against heat, not carcinogenic particles. Today's particulate-blocking hoods are of paramount importance and a vital investment in your continued health and safety.



## FOR EVERY 5-DEGREE INCREASE IN SKIN TEMPERATURE, CONTAMINATION RISK INCREASES BY 400%.

Following the lungs, the skin is the body's second largest organ by surface area, and is highly absorptive. Some areas of skin are more permeable than others, specifically the face, the angle of the jaw, the neck and throat. Skin's permeability increases with temperature.

As you get hot, the pores open up, the absorption capacity of the skin increases. The higher the temperature, the more permeable your skin becomes. For every 5-degree increase in skin temperature, absorption and the risk of contamination increase by 400%<sup>1</sup>.

## FIREFIGHTER CANCER QUICK FACTS

Research shows that firefighters have higher cancer risks than the general population, and their risks are significantly higher for some specific cancers.

**9%**<sup>1</sup> Firefighters have a 9% higher risk of being diagnosed with cancer than the general population.

**14%**<sup>1</sup> Firefighters have a 14% higher risk of dying from cancer than the general population.

**61%**<sup>2</sup> Cancer has caused 61% of career firefighter line-of-duty deaths since 2002. Heart disease caused 18% of the line-of-duty deaths.

<sup>1</sup> Firefighter Cancer Support Network  
<sup>2</sup> IAFF date 1.1.2002 to 3.31.2017





- 1 FULL COVERAGE**  
STEDAIR® PREVENT particulate-blocking barrier throughout the entire hood.
- 2 EXTRA-LONG 24" LENGTH**  
Provides complete chest and shoulder coverage. Ensures your hood stays securely tucked in, preventing particulate entry at the coat-to-neck interface.
- 3 MULTI-PANEL DESIGN**  
Ensures a snug fit and proper seal with your SCBA, no matter the head movement, even tilted backward.
- 4 FR VISCOSE LINER**  
Provides a soft, cool feeling on your skin and boasts excellent moisture-wicking properties to keep you drier and more comfortable.
- 5 HEAVY-DUTY 1/2" ELASTIC SEWN INTO FACE OPENING**  
Ensures a snug fit and proper seal with your SCBA even when you move your head. Stretches for easy donning without ever losing its shape.
- 6 FLATLOCK SEAMS**  
Stronger yet low-profile, ensure a more comfortable fit. Sewn with spun Nomex thread for optimal quality.
- 7 FR KNIT**  
Form-fitting knit allows a comfortable fit that conforms to the contours of your head.

# ULTIMATE COMFORT. ULTIMATE PROTECTION.



**BLOCKS MORE THAN 99.9% OF PARTICLES**  
STEDAIR® PREVENT particulate barrier blocks more than 99.9% of particles as small as 0.1 to 1.0 microns.



**AIR PERMEABLE**  
Allows clean air to flow through and lets moisture escape efficiently to help reduce the risk of heat stress.



**SUPERIOR COMFORT**  
Lightweight and ergonomically-designed to ensure a comfortable fit. Inner multi-filament FR viscose liner provides a soft, cool feeling on your skin and boasts excellent moisture-wicking properties.



**QUIET**  
Won't make crackling noises that affect your situational awareness and limit your ability to communicate.

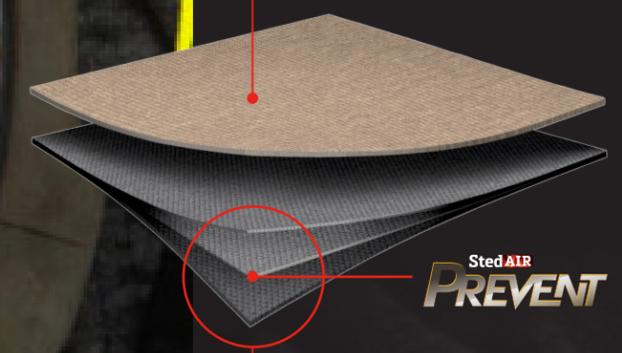


**DURABLE**  
Maintains its particulate-blocking effectiveness even after 100 washes. Face opening retains its snug fit to prevent ingress of harmful particulates.

## INNOTEX GRAY™ PROPRIETARY PATENT-PENDING TRILAMINATE.

**Protection against particulates is essential, and so is your comfort.**  
Our proprietary patent-pending trilaminate features industry-leading STEDAIR® PREVENT particulate-blocking barrier for optimal protection and our INNOTEX-exclusive multi-filament FR viscose inner layer for greater comfort and moisture-wicking properties. It slides like silk, always falls perfectly into place without bunching, and won't pill even after numerous washes.

- FR RIB KNIT OUTER LINER**  
Choose from 2 knit options:
- 20% PBI / 80% Lenzing
  - 20% Nomex / 80% Lenzing



- PROPRIETARY TRILAMINATE INNER LAYER**  
*Patent Pending*
- Nomex® Lenzing
  - Particulate-blocking STEDAIR® PREVENT
  - 100% multi-filament FR Viscose



# YOUR CHOICE: HIGHER TPP OR HIGHER THL.

Because everyone has different needs when it comes to thermal protection and breathability, we've developed 2 models, one featuring our exclusive Dual Metabolic Zone design. Choose the **GRAY 25** hood for enhanced heat stress control or the **GRAY 35** hood for optimal thermal protection in critical areas.

## INNOTEX® GRAY™ HOOD25 + THL

**SINGLE METABOLIC ZONE DESIGN**  
Effective heat stress relief without compromising thermal protection.

### 2-LAYER HOOD

- ONE FR knit outer layer.
- ONE inner layer : INNOTEX® Trilaminate with STEDAIR® PREVENT throughout.



● ONE layer



TPP	
As received	28
After 5 washes	27
THL	
	392
20% NOMEX 80% LENZING	



TPP	
As received	22*
After 5 washes	25**
THL	
	437
20% PBI 80% LENZING	

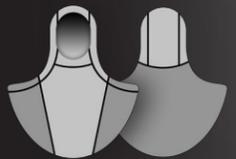
\* TESTED AT PBI® LAB.  
\*\* NOMINAL VALUES.

## INNOTEX® GRAY™ HOOD35 + TPP

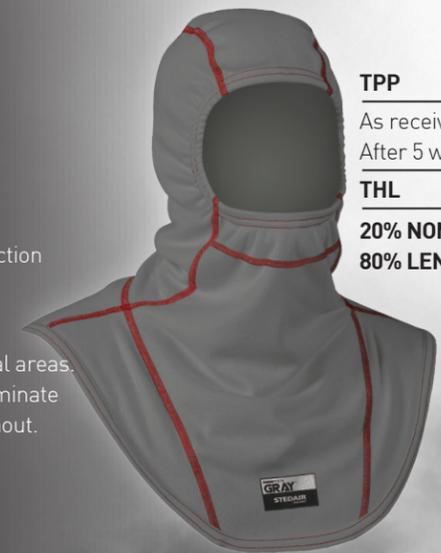
**DUAL METABOLIC ZONE DESIGN**  
Higher thermal and flashover protection only where you need it most.

### 3-LAYER HOOD

- TWO FR knit outer layers in critical areas.
- ONE inner layer : INNOTEX® Trilaminate with STEDAIR® PREVENT throughout.



● TWO layers  
● ONE layer



TPP	
As received	41
After 5 washes	46
THL	
	329
20% NOMEX 80% LENZING	



TPP	
As received	39
After 5 washes	35
THL	
	350
20% PBI 80% LENZING	



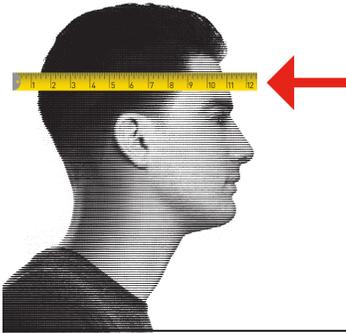
# FABRIC PERFORMANCE.

## INNOTEX® GRAY™ 25/35 HOOD PERFORMANCE VALUES

	Requirements NFPA 1971 / 2018 edition	INNOTEX® GRAY™ HOOD25		INNOTEX® GRAY™ HOOD35		
		20% NOMEX 80% LENZING	20% PBI 80% LENZING	20% NOMEX 80% LENZING	20% PBI 80% LENZING	
<b>PARTICULATE-BLOCKING EFFICIENCY</b>	As received After 10 washes	0.10mm part. size ≥ 90%	99.9% 99.8%	98% 98%	99.9% 99.8%	99.6% 99.3%
<b>THERMAL PROTECTIVE PERFORMANCE (TPP)</b>	As received After 5 washes	≥ 20 ≥ 20	27.7 26.5	22.37* 25**	40.7 46.1	38.6 34.8
<b>TOTAL HEAT LOSS (THL)</b>	As received	≥ 325 W/m2	392	437	328.9	350
<b>AFTER FLAME (Wales X Courses / sec)</b>	As received After 5 washes	≤ 2.0	0 0	0 0	0 0	0 0
<b>CHAR LENGTH (Wales X Courses / mm)</b>	As received After 5 washes	≤ 2.0	23 x 18 18 x 16	20 x 28 30 x 28	23 x 18 18 x 16	20 x 28 30 x 28
<b>HEAT &amp; THERMAL SHRINKAGE RESISTANCE (%)</b>	As received After 5 washes	≤ 10%	M/L -0.5 % XL -0.3 % M/L -0.5 % XL -0.5 %	M/L -0.8 % XL -1.5 % M/L -1.4 % XL -1.6 %	M/L -0.2 % XL 0% M/L -0.2 % XL -0.3 %	M/L 0 % XL 0 % M/L 0 % XL 0.2 %
<b>CLEANING SHRINKAGE RESISTANCE (%)</b>	Finished hood	≥ 5%	M/L -1 % XL -1.6 %	M/L -1 % XL -1.6 %	M/L -1% XL -1%	M/L 0 % XL -2.0%
<b>FABRIC BURST STRENGTH</b>	Knit Stedair Prevent	≥ 225 N	480 546	345 546	480 546	345 546

FABRIC PERFORMANCE VALUES IN ACCORDANCE WITH NFPA 1971-2018 EDITION.  
PERFORMED BY UNDERWRITERS LABORATORIES.  
\* TESTED AT PBI® LAB. \*\* NOMINAL VALUES.

INNOTEX  
**GRAY**™



For a proper fit, INNOTEX® GRAY™ particulate-blocking hoods are available in **2 sizes**. To determine yours, measure the circumference of your head above the ear.

SIZE	HEAD CIRCUMFERENCE (inches)
M / L	Less than 23.5"
XL	23.5" - 25"



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



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