

**WEAR
THE HOOD
THAT'S WAY
AHEAD.**



INNOTEX
GRAY[™]

Particulate-Blocking Hoods

INNO
TEX
BE STRONG.
BE SAFE.

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 absorbing these 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 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. These include 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 and 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%¹.



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% Firefighters have a 9% higher risk of being diagnosed with cancer than the general population.¹

14% Firefighters have a 14% higher risk of dying from cancer than the general population.¹

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

¹ Firefighter Cancer Support Network
² IAFF data from Jan 1, 2002
to March 31, 2017

NEW INNOTEX® GRAY™ HOOD 25 NANO

MADE WITH DUPONT™ NOMEX® NANO FLEX

NOT MADE WITH PFAS

A Full coverage

DuPont™ Nomex® Nano Flex particulate-blocking barrier – not made with PFAS – throughout the entire hood.

B Extra-long asymmetric length: 24" front & 22" back

Provides complete chest and shoulder coverage. Ensures your hood stays securely tucked in, preventing particulate entry at the coat-to-neck interface.

C Multi-panel design

Ensures a snug fit and proper seal with your SCBA, no matter the head movement, even tilted backward.

D 1-layer of Trilaminate with Nomex® Nano Flex

The Nomex® Nano Flex Technology is light, thin, and flexible, delivering excellent moisture management and thermal resistance.

E Heavy-duty ½" 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.

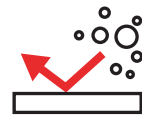
F Flatlock seams

Stronger yet low profile seams ensure a more comfortable fit. Sewn with spun Nomex thread for optimal quality.



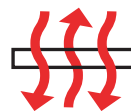
Not made with PFAS

The hood and its components are not made with PFAS.



Blocks more than 99.8% of particles

DuPont™ Nomex® Nano Flex particulate barrier blocks more than 99.8% 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, breathable and ergonomically-designed to ensure a comfortable fit.



Durable

Maintains its particulate-blocking effectiveness even after 250 washes. Face opening retains its snug fit to prevent ingress of harmful particulates.

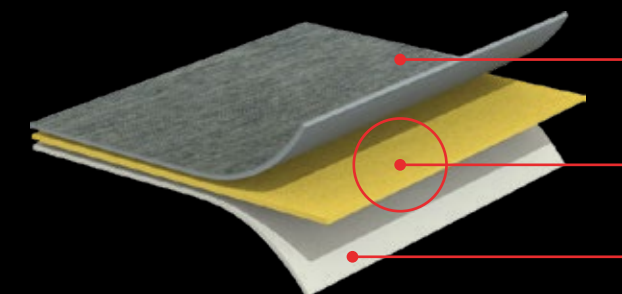


Watch video



INNOTEX GRAY™

1-LAYER OF TRILAMINATE WITH NOMEX® NANO FLEX



Our new GRAY™ Hood 25 Nano – **not made with PFAS** – offers complete protection against toxic particulates. Made with DuPont™ Nomex® Nano Flex, this light & flexible 1-layer hood features a nanofiber-based particulate barrier that stops particulates at 99.8%. Its remarkable breathability & high thermal heat loss value ensure unbeatable comfort in any situation.

GREY KNIT

Nomex®/Kevlar® blend 33%
Lenzing 33%
Modacrylic 33%

DuPont™

Nomex. Nano Flex

WHITE KNIT

Nomex® 50%
Lenzing 50%

INNOTEX® GRAY™ HOODS

MADE WITH STEDAIR® PREVENT

A Full coverage
Stedair® Prevent particulate-blocking barrier throughout the entire hood.

B Extra-long asymmetric length: 24" front & 22" back
Provides complete chest and shoulder coverage. Ensures your hood stays securely tucked in, preventing particulate entry at the coat-to-neck interface.

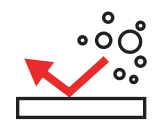
C Multi-panel design
Ensures a snug fit and proper seal with your SCBA, no matter the head movement, even tilted backward.

D FR viscose liner
Provides a soft, cool feeling on your skin and boasts excellent moisture-wicking properties to keep you drier and more comfortable.

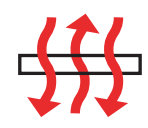
E Heavy-duty 1/2" elastic sewn into face opening
Ensures a snug fit and proper seal with your SCBA even when you move your head. Stretches for easy donning without ever losing its shape.

F Flatlock seams
Stronger yet low profile seams ensure a more comfortable fit. Sewn with spun Nomex thread for optimal quality.

G FR knit
Form-fitting knit allows a comfortable fit that conforms to the contours of your head.



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.

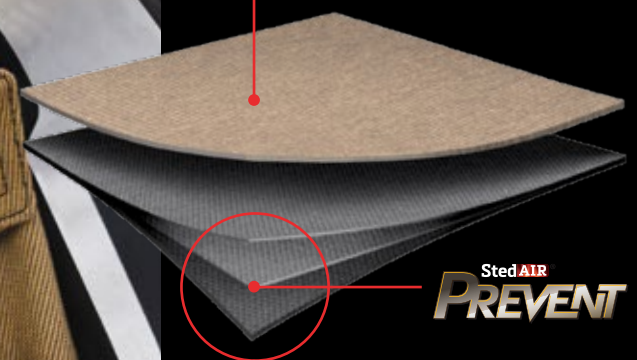
Protection against particulates is essential. So is your comfort.

Our proprietary patent-pending trilaminate combines the industry-leading STEDAIR® PREVENT particulate-blocking barrier for optimal protection with 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

- 2 knit options:
- 20% PBI / 80% Lenzing
 - 20% Nomex / 80% Lenzing



PROPRIETARY TRILAMINATE INNER LAYER

- Nomex® Lenzing
- Particulate-blocking STEDAIR® PREVENT
- 100% multi-filament FR Viscose

*CAN patent 2,993,706, U.S. patent pending

YOUR CHOICE:

HIGHER **THL**



HIGHER **TPP**

Because everyone has different needs when it comes to thermal protection and breathability. Choose the **GRAY 25** hood for enhanced heat stress control or the **GRAY 35** hood for optimal thermal protection in critical areas.

INNOTEX® GRAY™ HOOD**25** +THL NANO

Single metabolic zone design
Effective heat stress relief without compromising thermal protection. Not made with PFAS.



● ONE layer

1-layer hood
• ONE layer of trilaminate with Nomex® Nano Flex throughout



TPP	
As received	23.0
After 5 washes	24.8
THL	
	479
54% Nomex® blend 46% Nomex® / Lenzing	

INNOTEX® GRAY™ HOOD**25** +THL

Single metabolic zone design
Effective heat stress relief without compromising thermal protection.



● TWO layers

2-layer hood
• ONE FR knit outer layer
• ONE inner layer: INNOTEX® Trilaminate with STEDAIR® PREVENT throughout



TPP	
As received	22.6
After 5 washes	34.1
THL	
	427
20% Nomex® 80% Lenzing	

TPP	
As received	22.4*
After 5 washes	25.0**
THL	
	437
20% PBI® 80% Lenzing	

INNOTEX® GRAY™ HOOD**35** +TPP

Dual metabolic zone design
Higher thermal and flashover protection only where you need it most.



● THREE layers
● TWO layers

3-layer hood
• TWO FR knit outer layer in critical areas
• ONE inner layer: INNOTEX® Trilaminate with STEDAIR® PREVENT throughout



TPP	
As received	36.7
After 5 washes	47.2
THL	
	329
20% Nomex® 80% Lenzing	

TPP	
As received	38.6
After 5 washes	34.8
THL	
	350
20% PBI® 80% Lenzing	



* Tested at PBI® lab.
** Nominal values.

Made in USA

FABRIC PERFORMANCE

INNOTEX® GRAY™ HOODS PERFORMANCE VALUES



INNOTEX® GRAY™
HOOD25
NANO

54% Nomex® blend
46% Nomex® / Lenzing



INNOTEX® GRAY™
HOOD25

20% Nomex®
80% Lenzing

20% PBI
80% Lenzing



INNOTEX® GRAY™
HOOD35

20% Nomex®
80% Lenzing

20% PBI
80% Lenzing

		Requirements NFPA 1971 / 2018 edition	54% Nomex® blend 46% Nomex® / Lenzing	20% Nomex® 80% Lenzing	20% PBI 80% Lenzing	20% Nomex® 80% Lenzing	20% PBI 80% Lenzing
PARTICULATE-BLOCKING EFFICIENCY	As received	0.10 mm part. size	99.8%	99.9%	99.6%	99.9%	99.6%
	After 10 washes	≥ 90%	99.7%	99.8%	99.3%	99.8%	99.3%
THERMAL PROTECTIVE PERFORMANCE (TPP)	As received	≥ 20	23.0	22.6	22.4*	36.7	38.6
	After 5 washes		24.8	34.1	25.0**	47.2	34.8
TOTAL HEAT LOSS (THL)	As received	≥ 325 W/m2	479	427	437	329	350
AFTER FLAME (WALES X COURSES / SEC)	As received	≤ 2.0	0.4	0	0	0	0
	After 5 washes		0.4	0	0	0	0
CHAR LENGTH (WALES X COURSES / MM)	As received	≤ 2.0	8 x 7	23 x 18	20 x 28	23 x 18	20 x 28
	After 5 washes		6 x 7	18 x 16	30 x 28	18 x 16	30 x 28
HEAT & THERMAL SHRINKAGE RESISTANCE (%)	As received	≤ 10%	M/L -1.1% XL 0.1%	M/L -0.5% XL -0.3%	M/L -0.8% XL -1.5%	M/L -0.2% XL 0%	M/L 0% XL 0%
	After 5 washes		M/L -0.7% XL -1.0%	M/L -0.5% XL -0.5%	M/L -1.4% XL -1.6%	M/L -0.2% XL -0.3%	M/L 0% XL 0.2%
CLEANING SHRINKAGE RESISTANCE (%)	Finished hood	≥ 5%	M/L 0% XL 0%	M/L -1% XL -1.6%	M/L -1% XL -1.6%	M/L -1% XL -1%	M/L 0% XL -2.0%
FABRIC BURST STRENGTH	Knit layer			480	345	480	345
	Tilaminate Inner Layer with Stedair® Prevent	≥ 225 N		546	546	546	546
	Tilaminate layer with DuPont™ Nomex® Nano Flex		71				

* Tested at PBI® lab.

** Nominal values.

Fabric Performance Values in accordance with NFPA 1971-2018 edition. Performed by Underwriters Laboratories.



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"



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