WEAR THE HOOD THAT’S WAY AHEAD.

Particulate-Blocking Hoods
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%.

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.

PARTICULATE-BLOCKING HOODS

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Toxic microscopic carcinogenic particles can travel through traditional knitted hoods.

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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 10 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.

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.

PFAS
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The hood and its components are not made with PFAS.

Air permeable
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INNOTEX GRAY™
1-LAYER OF TRILAMINATE WITH NOMEX® NANO FLEX

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

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 cracking 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.

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

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

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

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**INNOTECH GRAY® INNOTECH Textiles Corp. 2022. All rights reserved.**
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.
# FABRIC PERFORMANCE

**INNOTEX® GRAY™ HOODS PERFORMANCE VALUES**

<table>
<thead>
<tr>
<th>Requirements</th>
<th>INNOTEX® GRAY™ HOOD 25</th>
<th>INNOTEX® GRAY™ HOOD 25</th>
<th>INNOTEX® GRAY™ HOOD 35</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PARTICULATE-BLOCKING EFFICIENCY</strong></td>
<td><strong>As received</strong></td>
<td>0.10 mm part. size</td>
<td>99.8%</td>
</tr>
<tr>
<td></td>
<td><strong>After 10 washes</strong></td>
<td>≥ 90%</td>
<td>99.7%</td>
</tr>
<tr>
<td><strong>THERMAL PROTECTIVE PERFORMANCE (TPP)</strong></td>
<td><strong>As received</strong></td>
<td>≥ 20</td>
<td>23.0</td>
</tr>
<tr>
<td></td>
<td><strong>After 5 washes</strong></td>
<td>24.8</td>
<td>341</td>
</tr>
<tr>
<td><strong>TOTAL HEAT LOSS (THL)</strong></td>
<td><strong>As received</strong></td>
<td>≥ 325 W/m²</td>
<td>479</td>
</tr>
<tr>
<td></td>
<td><strong>As received</strong></td>
<td>0.4</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>After 5 washes</strong></td>
<td>0.4</td>
<td>0</td>
</tr>
<tr>
<td><strong>CHAR LENGTH (WALES X COURSES / MM)</strong></td>
<td><strong>As received</strong></td>
<td>≤ 2.0</td>
<td>8 x 7</td>
</tr>
<tr>
<td></td>
<td><strong>After 5 washes</strong></td>
<td>6 x 7</td>
<td>18 x 16</td>
</tr>
<tr>
<td><strong>HEAT &amp; THERMAL SHRINKAGE RESISTANCE (%)</strong></td>
<td><strong>As received</strong></td>
<td>≤ 10%</td>
<td>M/L 0%</td>
</tr>
<tr>
<td></td>
<td><strong>After 5 washes</strong></td>
<td>M/L -1.0%</td>
<td>M/L -0.5%</td>
</tr>
<tr>
<td><strong>CLEANING SHRINKAGE RESISTANCE (%)</strong></td>
<td><strong>Finished hood</strong></td>
<td>≥ 5%</td>
<td>M/L 0%</td>
</tr>
<tr>
<td></td>
<td><strong>Knit layer</strong></td>
<td>480</td>
<td>345</td>
</tr>
<tr>
<td><strong>FABRIC BURST STRENGTH</strong></td>
<td><strong>Tilaminate Inner Layer with Stedair® Prevent</strong></td>
<td>≥ 225 N</td>
<td>546</td>
</tr>
<tr>
<td></td>
<td><strong>Tilaminate layer with DuPont™ Nomex® Nano Flex</strong></td>
<td>71</td>
<td></td>
</tr>
</tbody>
</table>

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

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.

<table>
<thead>
<tr>
<th>Size</th>
<th>Head circumference (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>M / L</td>
<td>Less than 23.5”</td>
</tr>
<tr>
<td>XL</td>
<td>23.5” - 25”</td>
</tr>
</tbody>
</table>