INNOTEX GRAY™

CANCER IS A GROWING CONCERN AS MORE AND MORE FIREFIGHTERS ARE DIAGNOSED WITH THIS DISEASE THAN EVER BEFORE.

A recent multi-year study by the CDC on cancer among U.S. firefighters (1) showed higher rates of certain types of cancer than among the general U.S. population. The study also provides evidence that these higher rates are directly related to occupational exposure.

In another study "(Daniels, 2014), a pooled cohort of 29,993 firefighters was followed over a span of nearly sixty years and it was found that overall, firefighters developed nine percent more cancers of all types, and were 14% more likely to die of cancer than age-matched controls in the general population." (2)

A crucial factor: “Fires generate toxic combustion products, some of which are known or suspected to cause cancer. Fire fighters may be exposed to these toxins as a consequence of their job duties.” (3)

“These intermittent exposures can be intense, and short term exposures can be high for respirable particulate matter and for some carcinogens, notably benzene, benzo[a]pyrene, 1,3-butadiene, and formaldehyde.” (4) But also "polycyclic aromatic hydrocarbons, formaldehyde, dioxins, polychlorinated biphenyls, vinyl chloride, acrolein, asbestos and heavy metals such as lead, arsenic, and cadmium." (2)

Another crucial factor is that when the body heats up skin absorption rates increase by 400% for every 5 degree increase in skin temperature. (5) This readily allows any toxic combustion products to enter the human body.

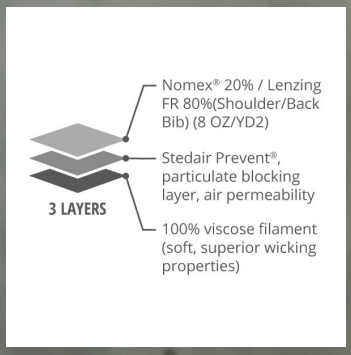
(1) CDC Study of Cancer among U.S. Fire Fighters 2016
(2) University of the Fraser Valley, FIREFIGHTERS AND CANCER: UNDERSTANDING RISK FACTOR IN AN ENVIRONMENT OF CHANGE 2015
(3) NIOSH Fire Fighter Cancer Study 2013
(4) WHO International Agency for Research on Cancer, Monograph Working Group Carcinogenicity of shift-work, painting, and fire-fighting 2007
(5) "Taking Action against Cancer in the Fire Service", Firefighter Cancer Support Network

INNOTEX GRAY™

The INNOTEX GRAY™* Hood 25 is a particulate blocking hood designed to address this very issue. It helps to dramatically reduce the risks of carcinogenic particulate contamination while maintaining air permeability.

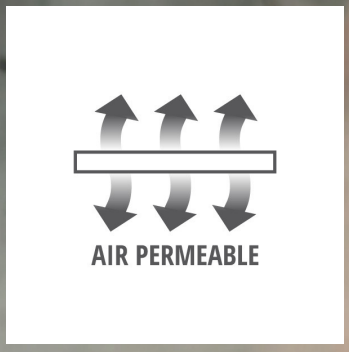
Developed to meet the proposed requirements of NFPA 1971, 2018 edition, the particulate blocking layer blocks carcinogenic particulates 0.1 µm to 1.0 µm that are found in the combustion of structural fires by greater than 98%. Yet, that same layer also allows for air permeation, which is essential to reduce the risk of increased core temperature.

THE INNOTEX GRAY™ HOOD 25 USES THE SAME 3-LAYER APPROACH AS TURNOUT GEAR.



LAYER 1: The exterior layer is a 20%/80% Nomex/Lenzing blend (8 oz/yd²), providing good, reliable performance.

LAYER 2: The middle layer consists of a proprietary version of Stedair® PREVENT. This layer blocks carcinogenic particulates 0.1 µm to 1.0 µm (microns) by greater than 98%. NFPA 1971, 2018 edition will require a minimum of 90%.
Unlike some barriers, it is air permeable, which means air freely passes through it, letting body heat dissipate and helping reduce the risk of increased core temperature. This layer also offers a 100% coverage throughout the entire hood.



LAYER 3: The inner layer is a 100% FR viscose multi-filament liner. It gives a noticeably cool feeling when worn and has superior wicking abilities that spread out moisture to allow for quicker drying. The liner material is also less prone to piling than a standard Nomex/Lenzing material.

Layers 2 & 3 are laminated together, reducing the bulk of multiple layers and increasing comfort.

*Patent Pending

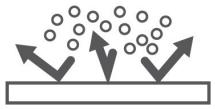
INNOTEX GRAY™

TECHNICAL DATA

The INNOTEX GRAY™* Hood 25 has a TPP of 29.7 (NFPA requirement is a minimum TPP of 20).

The INNOTEX GRAY™ Hood 25 has a THL of 380 (NFPA requirement is a minimum THL of 325).

The particulate blocking layer blocks particulates 0.1 µm to 1.0 µm (microns) by greater than 98%. (NFPA requirement is a minimum of 90%)

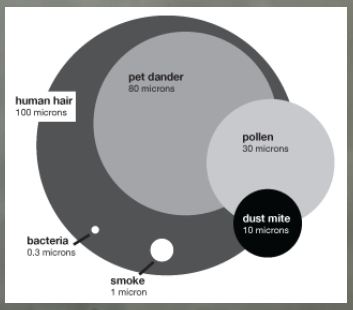


PARTICULATE BLOCKING LAYER > 98% OF 0.1 TO 1.0 MICRON

FEATURES & BENEFITS

- Universal Size
- Flatlock stitch for maximum comfort
- 21” in length
- Full drape coverage around the shoulders
- 100% protection coverage throughout the hood
- Heavy ½” Elastic prevents stretching out when worn around the neck
- Air Permeable
- Tested for 100 washes
- Optimized comfort

HOW SMALL IS A MICRON?



This same technology is also available in our INNOTEX GRAY™* Interfaces.

*Patent Pending

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STEDAIR PREVENT

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