

Particulate Hoods 171/172/173

99% > protection against
cancer-causing particulates.



FLAME PRO

Protecting Life



Particulate Hoods

The only particulate hoods giving 99%+ protection against cancer-causing particulates from the first wear.

Cancer is the most dangerous threat to firefighters' health and safety today. That's why FlamePro have worked hard to respond to firefighters' needs, developing the most advanced protection particulate hoods on the market. The hoods give firefighters maximum protection from cancer-causing particulates from the very first time they are worn, a step-up from alternative products that fall short.

Unlike any other hoods using the same fabric, FlamePro's pioneering design is engineered with unique differences to give firefighters maximum protection and comfort.

FlamePro's 171 and 172 particulate hoods use cutting edge DuPont™ Nomex® Nano Flex fabric, specifically developed to prevent contamination from particulates.

The heat and flame-resistant fabric is highly breathable, very thin, and lightweight to reduce risks associated with heat stress. Unlike PTFE laminated hoods, the hoods do not have a plastic lining that interferes with hearing. This means firefighters can hear clearer and act more safely. Coupled with increased comfort and mobility, these features enhance a firefighter's ability to perform safely.

Great value, without compromising safety

Not only are our particulate hoods independently certified to last longer than any alternative, we offer both critical cover and full cover protection to accommodate varying budgets without compromising on the stringent quality and safety standards FlamePro is known for.

What's more, FlamePro's particulate hoods do not contain per- and polyfluoroalkyl substances (PFAS). Buying FlamePro means you can be confident you're not contributing to the toxins polluting ecosystems, and linked to serious health concerns including

FLAME-PRO.COM



FLAME PRO

Protecting Life





“

*99% protection against
cancer-causing particulates.* ”



Protecting Life

Why Trust FlamePro?

- ✓ **Two sizes for maximum safety and comfort**
A “one size fits most” approach just isn’t good enough. Our hoods are tailored for different body sizes to reduce risk from ill-fitting hoods, giving maximum protection and comfort. Garments are clearly labelled to make sure firefighters are donning the right hood.
- ✓ **Eliminates the need for buying a duplicate kit**
Our particulate hoods meet both structural AND wildfire certification, eliminating the need for buying, storing and maintaining duplicate kit and any risk of firefighters taking the wrong protective hood to an incident. This reduces the budget investment needed for the same item for different types of incidents.
- ✓ **Preferred choice in wearer trials**
Firefighters chose our particulate hood more frequently than any other in user trials, reporting it was comfortable, cool, and quiet to wear.
- ✓ **Maximised protection that lasts longer than the alternatives**
Independently tested and certified to give 99% protection up to 250 washes - other products only give high protection levels for around 100-150 washes.

- ✓ **No particulate seepage. No weak spots**
Particulate barrier protection all the way to the face to eliminates risk compared to alternative hoods which have a rib around the edging leaving the face exposed to particulates. FlamePro’s hoods have protected seams for comfort and meta-aramid threads give 100% protection from particulates filtering through. Our hoods are made without any quilting to ensure there is no particulate seepage through weak spots.
- ✓ **Exceptionally lightweight to improve mobility and reduce heat stress**
Our particulate hoods are lighter than any other hood using the same material thanks to FlamePro’s intelligent pattern cutting to tailor the fit. This not only ensures safety and comfort by adapting to the wearer’s size, it contributes further to reducing the risk of heat stress for the firefighters.





FLAME PRO

171 Firefighter Hood

Full Cover Particulate Protection

The only none PTFE full cover particulate hood giving 99%> protection against cancer-causing particulates from the first wear.

Cancer is the most dangerous threat to firefighters' health and safety today. Our 171 is the most advanced protection particulate hood on the market, giving firefighters maximum protection from cancer-causing particulates from the very first time it is worn. Unlike any other hood using the same fabric, FlamePro's pioneering design is engineered with unique



Certified for:
Wildland Firefighting



Appropriate for:
Structural Firefighting



FLAME **PRO**

172 Firefighter Hood

Critical Cover Particulate Protection
Fabric - Nanoflex - 172 Firefighter Hoods

The only Critical Cover particulate hood giving 99% protection against cancer-causing particulates.

Cancer is the most dangerous threat to firefighters' health and safety today. Our 172 is the most advanced critical cover protection particulate hood on the market, giving firefighters increased protection from cancer-causing particulates from the very first time it is worn.



Certified for:
Wildland Firefighting



Appropriate for:
Structural Firefighting

FLAME **PRO**

173 Firefighter Hood

Full Cover Particulate Protection
PTFE Lining



The only particulate hood to offer 99.9% protection against cancer causing particulates from the first wear.

Cancer is the most dangerous threat to firefighters' health and safety today. Our 173 is the most advanced protection particulate hood on the market, giving firefighters maximum protection from cancer-causing particulates from the very first time it is worn. Unlike any other hood using the same fabric, FlamePro's pioneering design is engineered with unique differences to give firefighters maximum protection and comfort.



Certified for:
Wildland Firefighting



Appropriate for:
Structural Firefighting

Product Comparison

Product	171 Full Cover Hood, Nano Flex™	172 Critical Cover Hood, Nano Flex™	173 Full Cover Hood, PTFE
Fabric Construction	3-Layer laminate: Nomex® outer knit, Nomex® Nano Flex barrier, aramid/viscose FR inner knit	Cover Area: 3-Layer laminate: Nomex® outer knit, Nomex® Nano Flex barrier, aramid/viscose FR inner knit. Uncovered Area: 2-layer Nomex® and Kevlar® blend with Lyocell/Modacrylic / Antistatic	Outer: Nomex® and Kevlar® blend with Lyocell/Modacrylic/ Antistatic. Inner: 3-Layer laminate: two meta-aramid knits with particulate blocking membrane
Particulate Protection from first wear	99%>	99%>	99.90%
Particulate Protection tested after	<ul style="list-style-type: none"> • After 5 wash cycles • After 25 wash cycles • After 150 wash cycles • After 250 wash cycles 	<ul style="list-style-type: none"> • After 5 wash cycles (covered area) • After 25 wash cycles (covered area) • After 150 wash cycles (covered area) • After 250 wash cycles (covered area) 	<ul style="list-style-type: none"> • After 200 wash cycles
System Weight	460gsm	460gms Covered Area 440gms Uncovered Area	375gms
Sizes Available	2	2	2
Air Permeability ASTM D737	14.6 CFM (new condition) 24.5 CFM (after 250x wash cycles)	14.6 CFM (new condition) *covered area 24.5 CFM (after 250x wash cycles) *covered area	4.50 CFM (new condition)
Water Vapour Resistance (RET) After 100x wash cycles	5.38 RET	5.38 RET (covered area)	5.79 RET
Membrane system	Nomex Nano Flex®	Nomex Nano Flex®	PTFE
Convective Heat (HTI) After 100x wash cycles	HT124 = 10s HT124-12 = 4s	HTI24 = 10s (covered area) HT124-12 = 4s (covered area)	HT124 = 9s HT124-12 = 3s
Radiant Heat (RHTI) After 100x wash cycles	RHT124 = 25s RHT124-12 = 10s	RHTI24 = 25s (covered area) RHTI24-12 = 10s (covered area)	RHTI24 = 24s RHT124-12 = 10s
Donning & Doffing After 100x wash cycles	PASS	PASS	PASS
Acoustic Test / Crackling Noise	Low	Low	Medium
Wash Method	<ul style="list-style-type: none"> • 60 °C Wash temperature • Tumble Dry Permittable - low temperature • Do not iron • Do not dry clean • Do not use bleach 	<ul style="list-style-type: none"> • 60 °C Wash temperature • Tumble Dry Permittable - low temperature • Do not iron • Do not dry clean • Do not use bleach 	<ul style="list-style-type: none"> • 40 °C Wash temperature • Line Dry Only • Do not iron • Do not dry clean • Do not use bleach



Where you can find us

FlamePro Global Ltd,
Unit 2, Dianthus Business Park,
Common Lane, Brough,
HU15 2FT

info@flame-pro.com
+44 (0)1332 341030

FLAME-PRO.COM

FLAME PRO

