

## The Power of Carbon

Carbon Shield<sup>™</sup> is a flame resistant fabric breakthrough based on carbon fiber technology. The fabric simply won't burn in air. Besides providing outstanding protection against direct flame, the fabric exhibits low thermal conductivity – making it an excellent insulator against heat. Constructed using advanced patented technology, Carbon Shield<sup>™</sup> knit fabric is gravure (dot) laminated to DuPont<sup>™</sup> Nomex<sup>®</sup> Nano Flex, providing the ultimate level of flame, heat and particulate protection without sacrificing breathability or comfort. With a Particulate Filtration Efficiency (PFE) of 99.92% before laundering/conditioning and 99.88% after laundering/conditioning, BarriAire Carbon Shield Elite Pro hoods offer superb protection against dangerous and toxic particles routinely encountered while on a working call. Your fire hood is an investment in your health and safety, don't compromise, BarriAire Carbon Shield Elite Pro hoods only from PGI.



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OUPONTE

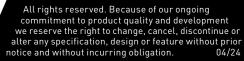
Nomex

Nano Flex



Fabric Performance Values	NFPA 1971 Requirements	BarriAire Carbon Shield™
Particulate Efficiency <ul> <li>As Received</li> <li>After Conditioning</li> </ul>	≥ 90% ≥ 90%	99.92% 99.88%
<ul> <li>Thermal Protective Performance (TPP)</li> <li>As Received</li> <li>After 5 Washings</li> </ul>	≥ 20.0 (min) ≥ 20.0 (min)	24.9 31.9
Total Heat Loss (THL)	≥ 325 W/m²	395.3 W/m²
<ul> <li>Flame Resistance Test - Laminate After Flame (Wales x Courses)</li> <li>As Received</li> <li>After 5 Washings Char Length (Wales x Courses)</li> <li>As Received</li> <li>After 5 Washings</li> </ul>	≤ 2.0 sec ≤ 2.0 sec ≤ 100 mm ≤ 100 mm	0.4 sec × 0.3 sec 0.3 sec × 0.3 sec 0 mm × 0 mm 0 mm × 0 mm
Cleaning Shrinkage Resistance Test After 5 Washings	≥-5.0%	-2.0%
<ul> <li>Heat &amp; Thermal Shrinkage Resistance Test</li> <li>As Received</li> <li>After 5 Washings</li> </ul>	≥ -10% ≥ -10%	-0.6% -2.3%
Seam Breaking Strength Test	≥ 181 N	665 N
Hood Material Burst Strength	≥ 225 N	745 N
Melt or Drip When Exposed to Flame	No Melting or Dripping	NONE

Physical Properties	BarriAire Carbon Shield™
Stretch and Recovery	Excellent – Similar to regular non-barrier hood.
Low Water Retention	Excellent – Reduces chances for steam burns.
Acoustic Performance	Excellent – Quiet, allows excellent hearing without adversely affecting communication and situational awareness.
Moisture Management	Excellent – Approximately 9% to 10% moisture regain at 65% RH. Reduces the potential for heat stress.
Limiting Oxygen Index (LOI)	Excellent – LOI is 55 which is the highest LOI of all flame resistant hood fabrics.
Chemical Resistance	Excellent – Good resistance to organic solvents, weak alkalis and weak acids.
Odor Resistance	Excellent – Has the ability to absorb and neutralize odors.
UV Resistance	Excellent – Will not fade or weaken when exposed to UV rays.
Laundry Shrinkage	Excellent – Average shrinkage approximately 3%. Virtually all shrinkage occurs after initial 3 to 4 washings.



Bertile

Elite Pro 39708-00-192198



The Elite Pro Advantage

Elite Pro hoods are specifically designed to improve comfort and provide greater freedom of movement while significantly reducing tugging or pulling away from the SCBA facepiece. Tapered back, notched shoulder drape and patterned bib perfectly interface with turnout collars and SCBA strapping. Designed to comfortably integrate with SCBA facepiece head harness and maintain proper seal with mask.

## **Particulate Coverage**

Particulate barrier coverage throughout entire hood and bib for maximum protection.

UL Classified to NFPA 1971 Standard on Protective Ensembles for Structural Firefighting and Proximity Firefighting (Current Edition).



MADE IN

**ISO9001** Registered Quality System



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