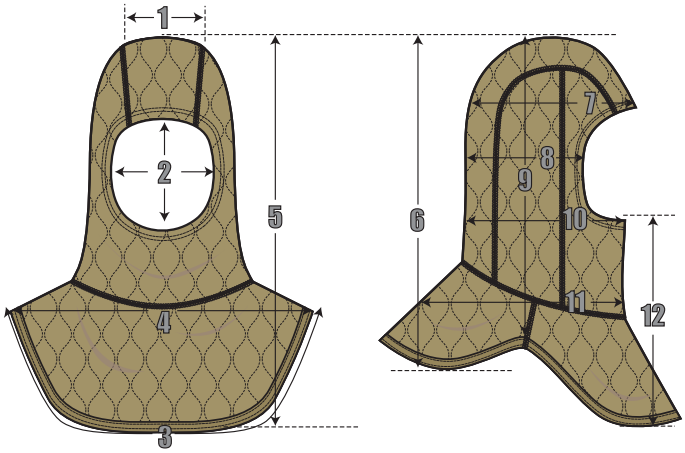
COBRA™
BarriAire
Particulate Barrier Technology
GOLD HOODS™



39708-00-194071 Elite Pro Comprehensive Coverage

HOOD DIMENSIONS – ONE SIZE HOOD FITS ALL

1. Sure-Fit™ panel 3" wide from top of face opening and extends to where bib is attached, in place of traditional center seam.
2. Quilted fabric extends to circular face opening, which is 4 ½" to 5 ½" in diameter.
3. Width around bottom (½) approximately 27".
4. Width around hood from edge of shoulder cap to opposite edge of shoulder cap, approximately 17".
5. Front length of hood from top to bottom, approximately 23".
6. Back length of hood from top to bottom, approximately 21 ½".
7. Width of hood above face opening, approximately 9".
8. Width of hood mid-face opening to back, approximately 8 ½".
9. Length of hood at side from top to bottom, approximately 18 ½".
10. Width of hood 1" below bottom of face opening approximately 10 ½".
11. Width of hood above shoulder cap, approximately 11 ¼".
12. Length of hood below face opening, approximately 14.

STITCH TYPES AND SEAMS

- All stitching conforms to Federal Standard 751 Specifications (FED-STD-751).
- Major seams are flat seam assembled with stitch type 607.
- Elastic around face opening is serged in with stitch type 504 and reinforced with bottom cover-stitch type 406.
- Binding is applied with bottom cover-stitch type 406.

LABELING AND USER INFORMATION

- UL Certified FR label facilitates tracking and identification through bar-coding, sequential numbering and personalization.
- "PROPERTY OF: _____" feature allows user to simply write their name with permanent laundry marker directly on label for permanent identification.
- Each hood is clearly labeled to identify material contents, NFPA acceptance, UL Classification, Date of Manufacture, Lot Tracking Number, Style Number, Statement of Made in USA and Care Instructions.
- Each hood includes a complete user information guide.

SPECIFICATIONS

CONSTRUCTION

- Completely redesigned hood which reduces excess fabric under chin to base of neck for a more comfortable fit and better interface with turnout coat collars; eliminates face opening pulling away from the bottom of SCBA mask when looking up.
- The bib is narrowed down to avoid being "locked-down" by shoulder straps for air supply tank and bound with BarriAire Gold rib knit.
- Entire structure of hood is made from quilted composite to maximize protection from harmful particulates.
- Sure-Fit™ panel provides improved comfort, fit and performance. Three inch wide panel, begins at face opening, extends over the crown of head to the bib seam.
- For contoured fit, hood is seamed from top of face opening to the bib seam, as well as from Sure-Fit™ panel down to bib, near coronal plane.
- Face opening is circular and serged with x-heavy duty ½" elastic around the perimeter. The elastic is then folded under ½" and cover-stitched. The face opening stretches 25% more than conventional hoods for easy donning and a snug fit around face of SCBA mask.
- Face opening maintains original shape after repeated laundering.

MEETS OR EXCEEDS INDUSTRY STANDARDS

- UL Classified to meet or exceed the current hood requirements of NFPA 1971, Standard on Protective Ensemble for Structural Firefighting.
- UL Certified to the NFPA 1971, 2018 Edition Option for Particulate Protection.
- Meets NFPA 70E and ASTM F1506 Requirements

ARC FLASH RESISTANT | 3-LAYER QUILTED COMPOSITE ATPV 46 - HRC 4

BARRIARE™ GOLD QUILTED FR COMPOSITE
OUTER KNIT LAYER: BarriAire™ Gold Jersey with non-PFAS DWR finish
MIDDLE LAYER: Nomex® Nano Flex
INNER KNIT LAYER: BarriAire™ Gold Jersey with Agion™ anti-microbial finish
WEIGHT: 430gsm (12.7oz/yd²)
FABRIC DESCRIPTION: Three layer composite, consisting of a proprietary blend of Meta-Aramid and Para-Aramid jersey with Nomex® Nano Flex sandwiched between two layers of jersey. The layers are then quilted together, using an onion pattern to stabilize and enhance the Nomex® Nano Flex particulate barrier's durability.

MADE IN U.S.A. | CLASSIFIED UL | ISO9001 Registered Quality System | DuPont™ Nomex Nano Flex

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PGI

PGI BarriAire Particulate Barrier Technology™

PERFORMANCE

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FABRIC PERFORMANCE VALUES	NFPA 1971 REQUIREMENTS	BARRIAIRE GOLD QUILTED COMPOSITE
Particulate Efficiency		
■ Average as Submitted and Washed	≥ 90%	96%
Viral & Bacterial Filtration Efficiency*		
■ Viral Filtration Efficiency (VFE)	N/A	96.8%
■ Bacterial Filtration Efficiency (BFE)	N/A	97.9%
Air Permeability After Home Laundering	N/A	23 cfm
Thermal Protective Performance (TPP)		
Quilted Composite		
■ As Received	≥ 20.0	29.3
■ After 5 Washings	≥ 20.0	30.8
Total Heat Loss (THL)	≥ 325 W/m²	401.3 W/m²
Material Burst Strength	≥ 225 N	614 N
Flame Resistance Test - Quilted		
After Flame (Wales x Courses)		
■ As Received	≤ 2.0 s	0.0 s x 1.0 s
■ After 5 Washings	≤ 2.0 s	1.0 s x 1.0 s
Char Length (Wales x Courses)		
■ As Received	≤ 100 mm	18 mm x 17 mm
■ After 5 Washings	≤ 100 mm	3 mm x 2 mm
Cleaning Shrinkage Resistance Test		
Quilted Composite Measurement		
■ After 5 Washings	≥ -5.0%	-0.3%
Heat & Thermal Shrinkage Resistance Test		
Quilted Composite Measurement		
■ As Received	≥ -10.0%	0.0%
■ After 5 Washings	≥ -10.0%	0.0%
Melt or Drip When Exposed to Flame	NO MELTING OR DRIPPING	NONE

ARC FABRIC PERFORMANCE VALUES**	BARRIAIRE GOLD QUILTED COMPOSITE
Incident Energy Range	28 to 55 Cal/cm²
Arc Rating, ATPV	46 Cal/cm²
Heat Attenuation Factor, HAF	94%

Reference Standard: ASTM F1959/F1959M-14e1: Standard Test Method for Determining the Arc Rating of Materials for Clothing
Test Parameters: Test Current: 8 kA | Arc Gap: 30 cm | Distance to Fabric: 30 cm | Number of Samples Analyzed: 21

*Viral and Bacterial Filtration Efficiencies as conducted by Nelson Labs, U.S.A. All other test results as conducted by UL LLC.
**Arc performances as conducted by Kinectrics Inc.

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