



Prism™

LIGHTWEIGHT, COMFORTABLE AND AFFORDABLE THERMAL PROTECTION

Prism™ is a lightweight, inherently flame resistant thermal liner composite that incorporates Safety Components' proprietary and patented Sigma™ yarn technology. Sigma yarn technology combines optimal ratios of meta-aramid, para-aramid, FR viscose and polyamide fibers. These fibers, when scientifically selected for maximum performance, provide an excellent combination of protection, comfort, moisture management, strength and durability as well as garment longevity.

Prism is woven into a technical dobby raindrop pattern, designed to channel moisture away from the firefighter. Chosen specifically by the United States Marine Corps for its next generation combat shirt and the United States Army for its Level V wet weather parka. Prism keeps the warrior and the firefighter protected, cooler and more comfortable.



“ 70%

of the Top 10

Metro Cities specify

Safety Components

protective fabrics. ”



SAFETY COMPONENTS

PROVEN PROTECTION. PROVEN PERFORMANCE. PROVEN DURABILITY.



PRISM



Excellent Protection - Good Comfort

ARALITE



Good Protection - Poor Comfort



Prism™

FACE CLOTH: 3.6 oz. (sq. yd.) 68% Aramid / 21% FR Viscose / 11% Polyamide ring spun fabric

WEAVE: Channeling Raindrop

AVAILABLE BATTINGS: 4.0 oz. Pure Virgin DuPont™ Nomex®/Kevlar® needle punch batting or multi-layer DuPont Nomex/Kevlar spunlace

COLOR: Black and Tan

Levels of Performance: Face Cloth

There are four primary levels of performance within the Prism™ fabric. The performance levels are driven by the specific physical properties of the four individual fibers selected. These fibers, when intimately blended together at optimal ratios, maximize the best properties of each individual fiber. These fibers and properties are as follows:

Meta-aramid fibers provide excellent thermal protection and durability for long lasting garment performance.

Para-aramid fibers provide excellent shrinkage control, break-open protection and enhanced fabric strength.

FR viscose fibers provide excellent moisture management, improved comfort and softness to the wearer.

Polyamide fibers provide improved strength and fabric durability.

Moisture Channeling

Prism is designed with a technical raindrop pattern that positions a higher ratio of FR viscose inside the raindrop. FR viscose is made from natural beech trees and possesses excellent moisture wicking capabilities and a very soft feel. The concentrated placement of the FR viscose inside the raindrop allows the fabric to channel moisture away from the wearer, thereby improving wearer comfort.

Original Ring Spinning

Prism is made from ring spun yarn technology. At Safety Components we only use ring spun yarns in our thermal liner fabrics. Most competitive thermal liner fabrics in the market today are made from air jet spun yarns. Developed in the late

1980's to increase the speed of production and reduce cost, air jet spun yarns are typically less comfortable than the original ring spinning technology. Air jet yarns are more hairy, feel raspy to the touch and typically are weaker than ring spun yarn yarns. In short, they cost less but feel worse.

Prism, made from the same ring spun technology employed by fabric artisans for centuries, is comfortable, soft to the touch and strong for a long lasting garment life.

Levels of Performance: Batting

At Safety Components we only use the highest performance battings in our thermal liners. We never use reprocessed fibers, only the finest first quality, pure aramid fibers available. Our tests indicate that first quality, pure aramid fibers are more stable and don't wash out as easily as reprocessed fibers. The use of pure fiber technology provides a more consistently protective ensemble and more stable TPP/THL performance during garment life.

Prism offers a variety of combinations to meet specific thermal protective needs:

Prism Pure

Prism face cloth quilted to one-layer of 4 oz. pure virgin needle punched 50% meta-aramid / 50% para-aramid batting.

Prism 2-Layer

Prism quilted to one-layer of 1.5 oz. aramid spunlace batting and one-layer of 2.3 oz. spunlace batting.

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Safety Components maintains ISO 9001:2000, TS 16949 and ISO 14001 certifications. Our fabric testing laboratories are ISO 1725 approved, ASTM (North America), DIN (Europe), JIS (Asia), and NFPA certified. Throughout our 100 year history, Safety Components has developed a reputation for product quality, product innovation, product diversity and on-time delivery.

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