

CARBON



PRODUCTS



18" CarbonX® Knit Sleeve with Thumb Hole

18" two-ply knitted CarbonX® heat-resistant sleeve with thumb hole. Tight form fit style. Sold as pairs.

Part #CX-18-TH



20" CarbonX® String Glove with Sleeve

20" machine-knitted CarbonX® string glove and sleeve combination. Ambidextrous. Sold as pairs.

Part #CX-100-20



11" CarbonX® String Glove

11" machine-knitted CarbonX® string glove. Ambidextrous. Sold as pairs.

Part #CX-100



16" CarbonX® Knit Sleeve

16" two-ply knitted heat resistant sleeve. Loose style with form-fitting wrist and top. Sold as pairs. Also available in 18" length. Please refer to part numbers below to order either 16" or 18" length.

Part #CX-16: 16" length • Part #CX-18: 18" length



22" CarbonX® Socks

22" length flame-resistant double jersey interlock knit socks. Arc rated at 12 ATPV, PPE Category 2. Meets NFPA 70E.

Part #CX-56-22

AVAILABLE THROUGH:

CHICAGO PROTECTIVE APPAREL



Chicago Protective Apparel • 847.674.7900 • sales@chicagoprotective.com • www.chicagoprotective.com

CARBON



FABRIC SPECS

DESCRIPTION

CarbonX® is a blend of high-performance fibers that will not burn, melt or ignite even when subjected to direct flame.

CarbonX® comes in various weights of woven and knit fabrics. Knit CarbonX® is excellent when used in baselayer garments and next-to-skin applications. It is very lightweight, flexible and soft-to-the-touch, while protecting the skin from burn injuries. All CarbonX® knit fabrics, regardless of weight and thickness, are rated NFPA 70E PPE 2 for their remarkable protective properties. Garments made of multiple layers of CarbonX® receive even higher ratings.

Base layer garments made of CarbonX® knit fabrics play an essential role in protecting wearers against serious burn injuries and more common nuisance burns. In dangerous situations, having CarbonX® knits close to the skin may buy the wearer critical time to escape without severe or life-

threatening injuries. Additionally, CarbonX® is inherently flame resistant and the thermal protective properties will not wash out or wear away.

One of the most significant characteristics that gives CarbonX® such high protection from heat and flame is its high Limiting Oxygen Index, or LOI. The Limiting Oxygen Index measures the amount of oxygen required in the environment for a fabric to support combustion. Any material with an LOI of less than 20.95 (the oxygen volume of air) will burn in air. CarbonX® has an LOI of 55, indicating that it needs an oxygen level of nearly three times that of air to burn. When exposed to heat and flame, the patented fiber blend carbonizes and then expands, eliminating any oxygen content within the fabric.

GLOSSARY OF TERMS

ASTM F1506

Standard performance specification for FR textiles in apparel worn by electrical workers exposed to momentary electric arc and related thermal hazards

Thermal Protection Performance (TPP)

The TPP score is two-times the number of seconds it takes for a second-degree burn to occur when exposed to a 2.0 cal / cm² flame. The higher the TPP rating, the higher the level of protection.

ATPV

ATPV is defined in the ASTM F1959-99 standard arc test method for FR fabrics as the incident energy that would cause the onset of a second-degree burn (1.2 cal / cm²).

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