

CARBON



by TEXTECH

ACTIVE BASELAYER AND FABRIC

PROFESSIONALS CONFRONTING HEAT AND FLAME ON A DAILY BASIS SHOULD NOT HAVE TO SACRIFICE COMFORT IN THEIR WORK WEAR TO GET THE PROTECTION THEY DESERVE. BUT COMFORT-DRIVEN, FLAME-RESISTANT (FR) APPAREL HAS NOT HISTORICALLY OFFERED ENOUGH PROTECTION TO BE SERIOUSLY CONSIDERED FOR USE IN HAZARDOUS ENVIRONMENTS.

THE CARBONX ACTIVE BASELAYER IS THE EXCEPTION. UNLIKE COMPETING PROTECTIVE APPAREL, OUR ACTIVE BASELAYER IS RATED NFPA 70E HAZARD RISK CATEGORY 2 FOR ITS EXTRAORDINARY PROTECTIVE PROPERTIES WHILE MOST COMPETITORS' GARMENTS OF A SIMILAR WEIGHT FALL INTO CATEGORY 1.

THE CARBONX ACTIVE BASELAYER—THE IDEAL SOLUTION FOR BALANCING PROTECTION AND COMFORT

The CarbonX® Active™ Baselayer is the ideal solution for professionals who want to keep comfortable when performing high-activity tasks in hot and potentially dangerous conditions. It is made from our TK-60 fabric, a 6 oz, double jersey interlock knit comprised of a proprietary blend of high-performance fibers, including a hydrophilic fiber designed to absorb and wick away moisture.

Constructed to be truly non-flammable, our Active Baselayer delivers:

Unmatched Protection: It will not burn, melt, or ignite, and significantly outperforms competing FR products when subjected to direct flame, extreme heat, molten metal, flammable liquids, certain chemicals, and arc flash. Even after intense exposure, our Active Baselayer maintains its strength and integrity and continues to protect. It also limits heat transfer much more effectively than FR apparel of similar weight.

Comfortable Protection: Our Active Baselayer is lightweight, soft to the touch, flexible, and odor resistant. It also breathes extremely well, wicks away moisture, and dries quickly, enhancing the wearer's comfort and productivity.

Permanent Protection: Because our Active Baselayer is inherently flame resistant, its thermal protective properties will not wash or wear away. CarbonX Ultimate apparel is machine washable, easy to care for, and can be worn daily as part of a total personal protective equipment (PPE) solution, providing significant value. (Apparel that is torn or damaged should be removed from service.)

CarbonX Active Baselayer solutions include: long-sleeve tops, hoodies, and full-length long-john style bottoms. Available in gray.



ACTIVE BASELAYER
SOLUTIONS THAT
COVER HEAD TO TOE

SETTING A NEW STANDARD IN FR PROTECTIVE APPAREL

CARBONX
by TEXTECH

While competitors work to ensure their products *meet* industry standards, **our goal is to exceed these standards** and go above the norm in providing a persistent thermal barrier with minimal heat conductivity. CarbonX fabrics and apparel offer protection far beyond the industry's "No Melt, No Drip" requirements, which typically only require that protective fabrics not contribute to burns in a thermal exposure as opposed to actually protecting the wearer from a thermal event.

AFTER FLAME

CARBONX TK-60	None/0 seconds
ASTM F1506	2 seconds or less
NFPA 1971 (2007)	2 seconds or less
NFPA 1975 (2009)	2 seconds or less
NFPA 1977 (2005)	2 seconds or less
NFPA 2112 (2007)	2 seconds or less

CHAR LENGTH

CARBONX TK-60	12 mm (0.47")
ASTM F1506	6" or less
NFPA 1975 (2009)	6" or less
NFPA 1977 (2005)	4" or less
NFPA 2112 (2007)	4" or less

THERMAL PROTECTIVE PERFORMANCE (TPP)

CARBONX TK-60	10.0
ASTM F1506	3.0 (spaced TPP of 6.0)

ATPV

CARBONX TK-60	17.0
NFPA 70E HRC 2	8.0

ASTM F1506: Standard performance specification for FR textiles in apparel worn by electrical workers exposed to momentary electric arc and related thermal hazards.

NFPA 1971 (2007): Standard on protective ensembles for structural firefighting and proximity firefighting.

NFPA 1975 (2009): Standard on station/work uniforms for emergency services.

NFPA 1977 (2005): Standard on protective clothing and equipment for wildland firefighting.

NFPA 2112 (2007): Standard on FR garments for protection of industrial personnel against flash fire.

Thermal Protective Performance (TPP): The TPP score is simply 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).

PARTNERS IN PROTECTION

CarbonX has the advantage of being a signature brand of TexTech Industries Inc., a global market leader in providing Personal Protective Equipment (PPE) solutions and performance-driven materials since 1904. TexTech's in-house engineering, testing, and manufacturing capabilities facilitate the development of new CarbonX products to meet the requirements of a broad range of difficult and demanding protective applications for industrial safety, steel/welding, utilities, pulp and paper, oil and gas, firefighting, motorsports, construction, and tactical/police. When confronting dangerous conditions, professionals and enthusiasts can rely on CarbonX to provide them with the protection they deserve.

**FOR MORE INFORMATION ABOUT CARBONX FABRICS AND
APPAREL, CALL 801-415-0023 OR VISIT WWW.CARBONX.COM.**

TEXTTECH
INDUSTRIES