TECGEN XTREME® Protective Gear
Coverall and Coat / Trouser Combination
Full Manufacturer Specifications

Certifications

This garment shall meet and be third party certified to all applicable requirements of NFPA 1977 and NFPA 1951 current editions.

Outer Shell Material

The outer shell shall be constructed of an inherent FR fiber blend containing TECGEN® biregional carbonaceous fiber and para aramid with an approximate weight of 6.5 oz. per square yard, and shall be treated with a durable water repellent finish.

Seams

All Seams shall comply with the most recent NFPA 1977 and NFPA 1951 edition requirements utilizing 100% aramid fiber thread.

Outer Shell Body Assembly

The body of the outer shell shall be constructed of a a single (1) panel, one (1) back and two (2) front, to provide a more comfortable fit. Each panel shall be joined together with a compliant seam.

Collar

The collar shall be of two (2) layer configuration such that when the collar is raised it will remain standing and provide continuous thermal and moisture protection around the neck and face. To ensure this protection, the liner shall extend into the collar area by one and one half inches (1 1/2"), and be secured horizontally by a one inch (1") strip of hook tape along the base of the neckline inside the collar.

Outer Shell Throat Strap

The frontal throat strap shall be mounted to the outer shell collar to ensure that, when the coat is closed and the collar is raised, the throat strap shall prevent any opening between the left and right collars, and shall overlap the left and right coat fronts below he collar.

Hang Up Loop

A hang up loop shall be mounted to the exterior of the outer shell and shall be constructed of two (2) layers of NFPA 1977 and NFPA 1951 (current editions) approved fabric. It shall be designed to provide long service and shall not tear or separate from the coat when the coat is hung by this loop, loaded evenly with a weight of 80 pounds and allowed to hang for one minute.

Built-In Bellows (Coat)
Built-in bellows construction shall consist of a bi-wing design to ensure maximum upper body freedom of movement including complete arm mobility when reaching up and/or forward. This system omits extra seams and gives better comfort to the wearer.

Glove Interface Adjustments (Coat)
The wrist cuffs shall be designed with the ability to adjust the circumference using a hook and loop closure system to fit snugly against the gloves worn during service.

Waist Adjustments (Trouser)
The trouser shall be designed with a waist take up system that can be adjusted via 1" wide take up straps to provide proper and comfortable fit given various types of undergarments worn underneath the trouser.

Leg Adjustments (Trouser)
The trouser shall be designed with a leg take up system that can be adjusted via take up straps to provide proper and comfortable fit given various types of footwear worn during service.

Pockets (Coat)
Standard construction consists of 4 pockets. (1) 3.5"W x 8"H x 3"D radio pocket with mic tab and closure flap on the left chest, (1) 6"W x 7"H bellows pocket with closure flap on the right chest, (2) 8"W x 7.5"H pockets with closure flaps located on the left and right sides of the abdomen.

Pockets (Trouser)
Standard construction consists of: (2) 8.5" x 8.5" cargo pockets with closure flaps located on outside legs middle thigh to just above knee.