



PYROVATEX

Industrial Safety & Fire-Resistant Apparels

Pyrovatex delivers fire protection in a comfortable shirt, trouser and coverall weight fabric of 7.5osy. It performs to the EN ISO 11612 and EN ISO 11611.

What is Pyrovatex?

- Trademark of Fire-Retardant Chemical and Processes owned by Huntsman Chemicals Group.
- Ordinary natural 100% Cotton and blended cloth which are Chemically treated with PYROVATEX fire retardant chemical and are cured by special processes turn into "Durable Chemically Treated" Fire Resistant cloth.
- Pyrovatex cloths are tested up 30 to 50 washes.

EN ISO 11612 (previously EN531) requirement category A, B1, C1 and BS: EN533 = Index 3.

EN ISO 11612 standard for Fire Resistant clothing for use by Industrial workers in Europe use pieces of cloth samples that are tested in Flash fire of 2 cal per cm² per second Heat Flux Flame energy at 3 seconds exposure time in a controlled laboratory simulation of an Industrial Flash fire exposure after 5 washings in a laboratory condition

Pyrovatex DO NOT provide Electrical Arc Flash Hazards Category II in NFPA 70E.

The Thicker the Fire-resistant cloth are selected, the more a person is protected from second degrees burn injuries Pyrovatex cloth of thicker weight of more than 10osy complied to the NFPA 70E Hazard Risk Category 2 (when newly made) which is the minimum or use by Electricians in advanced countries for protection in ATPV 8 Electrical Arc Flash hazard. Depending on the electrical energy, Electrical Arc Flash fire can and will kill a person at 10 feet.

Pyrovatex chemically treated cloth are made by many various independent textile mills in various countries using Huntsman proprietary trademarks fire retardant chemicals , its treatments processes & technologies supplied by the Huntsman Specialty Chemical group

All Fire Resistant clothing will shrink and will fade or change colour progressively over time & use by the effects of washings & UV sunlight exposures. Chemically treated Fire resistant clothing are usually made from FR 100% cotton or a blended material of 12% High Tenacity Nylon and 88% FR cotton – the dyed colour will easily fade after a short period of use due to washings and exposures to sunlight = fading usually start in about 1 to 2 months onwards. During Laundering = It is advised to turn over the clothing inside out when laundering & to line-dry in the shade & away from sunlight to slowdown the colour fading problem. There may also be incidences of users developing 'Skin- Body-Rashes' due to Reaction of Flame resistance chemicals and or fabric finishing aids , especially where such users have sensitive skin. It is advised that user MUST wash all new uniforms to get rid of various finishing aids before wearing. It would also be good practice to wear a 100% cotton Tshirt undergarment to create a spacer and minimize direct contact between body & chemically treated FR cloth.

Fire resistant garment made from cloth that are Chemically treated with various types of Fire Retardant chemicals may lose their embedded coatings & protection values progressively over time due to incorrect laundering , mechanical abrasions , FR chemicals degradation , contacts with various chemicals and by the action of Natural process called 'Hydrolysis' in which (Air + Moisture + Heat + Humidity) Interacted to alter the PH value. This causes early degradation of FR chemicals and when these clothing are laundered, it may removes the FR chemical additives, thus exposing users of these garments to the constant threats of Flash fires.

Failure to follow Laundering Instruction will adversely affect flame protection of Chemically Treated FR fabric.

As it is difficult to determine the number of washes or proper washing are practiced or that the FR chemical remains effective = It would thus be difficult to determine that Pyrovatex or Proban continue to provide the required Adequate and Assured Continuous Flame protection at ANY MOMENT IN TIME WHERE THE FLAME PROTECTION PROPERTIES ARE MOST NEEDED.

Consequently , there are valid concerns about using All types of Chemically-Treated garments in a Highly-Flammable Hazardous Job-sites

The use of fire resistant clothing DO NOT ELIMINATES the high risks of working in a highly flammable environment. The purpose of Fires / Flames resistant garments is to decrease burn injuries & thereby increases the chances of survival and recovery. Depending on the proximity, intensity & duration of the flash flames, user may still sustain Fire & Burns injuries. Users MUST wear Natural and Fire resistant T-shirts and undergarments which will help to provide additional protection. Users MUST follow ALL Laundering & Garments Care instructions and MUST constantly exercise Cautions & follow ALL Safety rules & Procedure. Users & their employer must determine by their own independent investigations & tests that selected weight & type are suitable for their operational use & protection level. For Electric Arc exposure, user must wear correct number of flame resistant layers as dictated by electric hazard analysis. These garments MUST NOT be used for Firefighting, Fire Rescue or Fire Entry The manufacturer of any types of these garments bears NO responsibilities should there be any injuries / burns resulting from such use and are NOT liable for any lawsuits, legal actions, claims, etc, at any time whatsoever. Any orders placed for the above garments imply and / or constitute acceptance of these terms & conditions and the buyer / ultimate buyer & users / end users shall absolve the manufacturers from any liabilities or responsibilities.

We specialize in manufacturing all kinds of uniforms/workwears for: ■ Marine & Offshore Industries ■ Corporate Uniforms for Hotels, Airlines, Banks, ■ Restaurants, Hospitals, School, Factories ■ Fire Resistant Apparels ■ Ready-made Overall, Boilersuit, Jacket, Pants, Dustcoat, T-shirt & etc