



**Pyrovatex®** was introduced in the 1960s as a durable flame retardant product for cellulosic fibers. Continuous improvements have reflected changes in market requirements and environmental issues. From its introduction until today, however one thing has remained constant –

# PYROVATEX®

by HUNTSMAN . . .

## maximum protection

### PYROVATEX®

treated fabrics offer the best overall flame protection available for cotton, as proved by comprehensive testing in line with international flame retardant standards.

treated fabrics barely shrink when exposed to heat and flames, thereby ensuring that the skin is not exposed to hazardous conditions.

treated cotton, unlike synthetics, will not melt in the presence of heat and flames. Melted cloth presents a risk to the wearer.

treated fabrics afford excellent thermal protection when heat is an added danger.

## superior comfort

Garment comfort is essential for effective workwear. Wearing of these garments is usually accompanied by strenuous physical effort; therefore comfortable clothing is more likely to be used—and used properly.

It is no coincidence that cotton is the most widely used fiber in the world. Its inherent softness is enhanced by its ability to keep the wearer cool in hot climates, and warm in cold climates. Additionally, it offers a breathability that is far superior to that of synthetic fibres.

PYROVATEX® treatment is not detrimental to the comfort of cotton. Some flame retardant finishes work by forming “films”, or complexes, on the surface of the garment, resulting in a stiffer handle. Fabrics treated with PYROVATEX® maintain their original softness.



**PYROVATEX®**  
**HUNTSMAN**

Enriching lives through innovation



TENCATE  
**Tecawork**

**Fimatt**

**... the protection you need, the comfort you want.**

Our Pyrovatex® fabric is made of Tencate Tecawork™ 100% cotton. Tencate, whom is a textile expert who have established an excellent reputation for developing and producing innovative fabrics with high quality standards over the years.

Tencate's fabric yarn contains a certain proportion of conductive yarn which is made of a certain proportion of Metallic Oxide fibers or other conductive fibers blended with ordinary fibers. It's conductivity is higher than Japan's "Anti-static Safety Guidance" requirement. The density of charge of antistatic fabric is less than 7uC/m2. Its known as the "permanent" anti-static fabric. Also the performance of flame-resistance can reach EN531 and NFPA212 Standards for protection of industrial personnel against the flash fire.



**... what is so good about Tencate Tecawork™ fabric?**

**High performance** - All TenCate Tecawork™ qualities are ring spun, ensuring a better-looking fabric that is easier to handle. The pilling value stays excellent even after repeated industrial laundering.

**Öeko-Tex Standard 100** - All qualities are tested for harmful substances.

**ISO certification** - TenCate is certified according to ISO 9001: 2001 and ISO 14001.

**Excellent colourfastness** - Our fabrics remain attractive and colourfast even after repeated industrial laundrings. Different colours can be coordinated perfectly to suit wearers' image and style.

**Wide range of colours** - TenCate, the textile-dyeing expert, has many different stock colours available, from the general orange, red, dark blue, to specific green, royal blue, yellow and khaki colours.

**Stylish appearance** - Our fabrics are suitable for application in corporate wear and workwear, and are used in sectors such as construction, food services, automotive, healthcare, retail, cleaning and maintenance, security, public transport, distribution and delivery services. This collection is well suited to the application of details inspired by casual fashion such as stretch, canvas, Denim-Look and printed fabrics – a popular trend in today's workwear.



**... eco-toxology**

**...in use**

Dermatological tests indicate that PYROVATEX® finished fabrics do not irritate the skin. Tests on saliva and sweat yield no evidence of harmful effects on humans.

**...in the event of a fire**

Analysis of the combustion gases by different methods showed no significant differences versus untreated cotton.

**...disposal**

The decomposition of cotton is not influenced by treatment with PYROVATEX®.

**... free formaldehyde**

The washing-off process undergone by PYROVATEX® finished fabrics results in very low free formaldehyde levels. (Japan Law 112: < 75 ppm)

PYROVATEX® treated fabrics meet OEKO-TEX STANDARD 100 requirements (e.g. product class II, direct skin contact).



THIS FLAME RESISTANT GARMENT COMPLIANT TO THE FOLLOWING STANDARDS FOR PROTECTION OF INDUSTRIAL PERSONNEL AGAINST FLASH FIRE:

**NFPA 2112**



**Material Thickness:  
7.0 osy (235gsm)**

**NFPA 70E**

EN 531

**HUNTSMAN**

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