

Flame  **Safe**

Flame Retardant by  **KLOPMAN**

**FLAME
RETARDANT
FABRICS**



QUALITY THAT WORKS



FLAMESAFE: FLAME-RETARDANT FABRICS FROM KLOPMAN. COMFORTABLY SAFE

Since 1967, Klopman has been committed to protecting workers from the risks that their everyday jobs might expose them to.

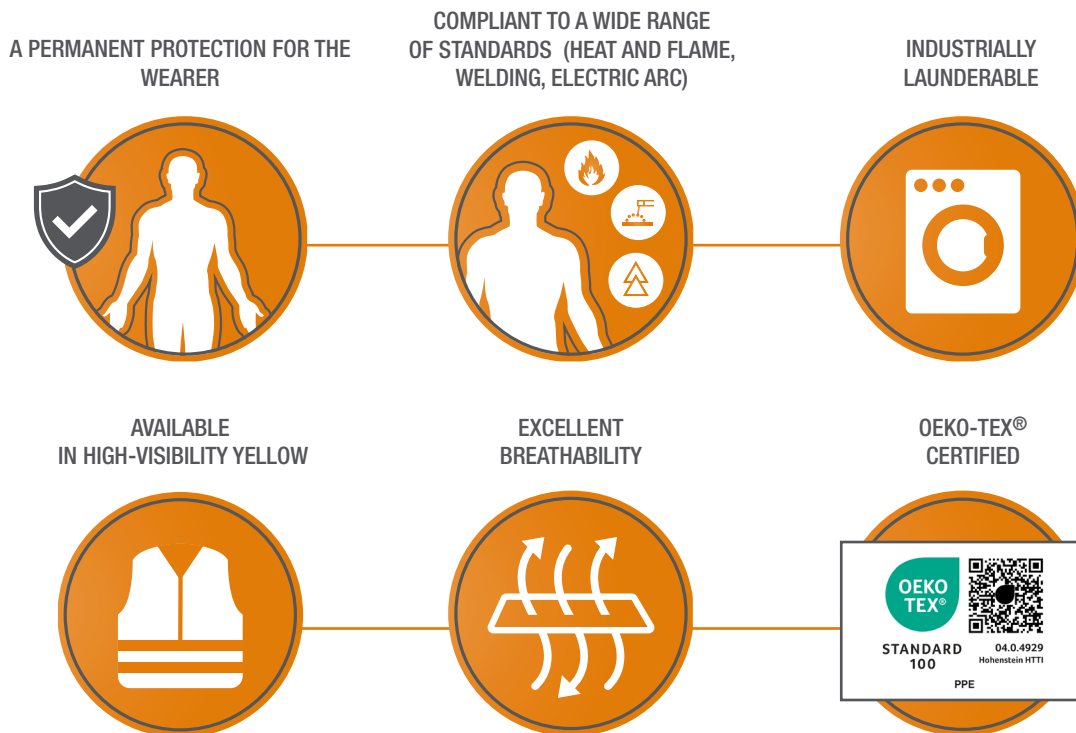
This is why we have developed a wide, innovative range of 100% cotton and cotton-rich flame-retardant fabrics that meets the most stringent European and non-European standard requirements.

They can boost compliance with protection against heat and flame (EN ISO 11612 - NFPA 2112), against welding (EN ISO 11611), and against electric arc IEC 61482-2 (IEC 61482-1-1 – IEC 16482-1-2) and ASTM F 1506, with grading according to NFPA70E.



FEATURES

- **Lifetime Warranty:** the highest protection for industrial workers exposed to heat and flame, electric arc and welding risks
- Certified for skin friendliness by **OEKO-TEX® Class 2**
- **Great performance:** the highest Klopman standards in tear/tensile strength, abrasion and colour retention
- **Special quality control scheme** ensures that each fabric roll is tested for its FR properties. All production batches are tested after 50 or 100 industrial wash cycles according to the PROBAN® quality control scheme
- Available in **high-visibility yellow** to meet the requirements of the EN ISO 20471 standard.
- Designed to withstand repeated industrial laundering



EXCEPTIONAL PERFORMANCE

Flamesafe guarantees extremely advanced levels of performance. Wearer comfort and satisfaction are achieved thanks to the fabrics' soft hand and cotton's natural breathability and absorption, qualities which are unaffected by the FR finishing.

The superior characteristics of the finishing, together with the fabrics' strength, resistance to abrasion and tear strength, plus their ability to withstand regular high-temperature laundering, combine to contribute to the all-round durability and performance of garments made in Flamesafe fabrics.

Special dye formulae have been developed to ensure that the Flamesafe fabric range has exceptional colour retention, consistency of shade and colour fastness.

Klopman flame-retardant fabrics maintain their strength, colour and flame-retardant protection properties even when exposed to UV light and are therefore perfectly suitable for outdoor work environments.



WOVEN LABELS AVAILABLE ON REQUEST.



ENJOY COMPLETE PEACE OF MIND WITH KLOPMAN'S LIFETIME WARRANTY

Specifically designed to provide exceptional protection and comfort for the wearer, all of Klopman's extensive range of Flamesafe fabrics come with a lifetime warranty on their flame-retardant properties.

The garment maintains its protection level for the duration of its working life. To ensure that, in Klopman we test all our fabrics according to ISO 15025 method A after 50 industrial wash & dry cycles. Selected fabric can also be tested according to ASTM D 6413 (NFPA 2112 : 2018 : SECT. 7.1.2. after 100 wash and dry cycles).

Moreover, we adopted a Total Quality Process Control approach that scans and tests every single phase of fabric production, moving from a sequential matrix process to a radial integration one that allows a mutual exchange all along the line.

APPLICATIONS

OIL AND GAS EXPLORATION AND SUPPLY

PETROCHEMICAL AND CHEMICAL PROCESSING

WELDING, METAL FABRICATION AND FOUNDRIES

POWER GENERATION, SUPPLY AND MAINTENANCE

TELECOMMUNICATIONS































MILITARY, EMERGENCY AND RESCUE SERVICES

TRANSPORTATION

MANUFACTURING INDUSTRIES.



A WIDE RANGE TO TAKE CARE OF EVERY NEED

	WEIGHT	WEAVE	BLEND	CERTIFICATION
Saturn FR Flame Retardant	215 g/m ²	Ripstop	100% cotton	
Jupiter FR Flame Retardant	260 g/m ²	2x1 S Twill	100% cotton	  
Bravo FR Flame Retardant	250 g/m ²	2x2 Z Twill	75% cotton 25% polyester	   
Arena FR Flame Retardant	300 g/m ²	2x2 Z Twill	75% cotton 25% polyester	  
Scala FR Flame Retardant	320 g/m ²	Satin 5/2	75% cotton 25% polyester	   
Meteor FR Flame Retardant	335 g/m ²	3x1 S Twill	100% cotton	  
Gemini FR Flame Retardant	340 g/m ²	Satin 5	100% cotton	  
Challenger 5000 FR Flame Retardant	360 g/m ²	2x2 Z Twill	75% cotton 25% polyester	  
Mars FR Flame Retardant	420 g/m ²	Satin 5	100% cotton	  
New Caesar Flame Retardant	485 g/m ²	Satin 5/3	100% cotton	  

ALSO AVAILABLE WITH: DURACLEAN, HYDROFOIL OR HYDROGREEN

DuraClean is Klopman's fabric protector finish with soil-repellent and soil removal properties. Contributes to enhanced garment appearance and helps to remove any flammable residuals that could affect the fabric's FR performance.

Hydrofoil is an exclusive Klopman formulation which adds superior water and oil repellency properties to all fabrics.

Hydrogreen is a fluorine-free repellent treatment that ensures durability even after repeated industrial or domestic washes. It provides excellent water repellency while maintaining fabric breathability and comfort.



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