
STEP AHEAD

WITH  CORE FX



KERMEL

CORE FX

THE ULTIMATE PROTECTION

NO BREAK OPEN, WITHSTANDS DOUBLE FLASHOVER TESTING*

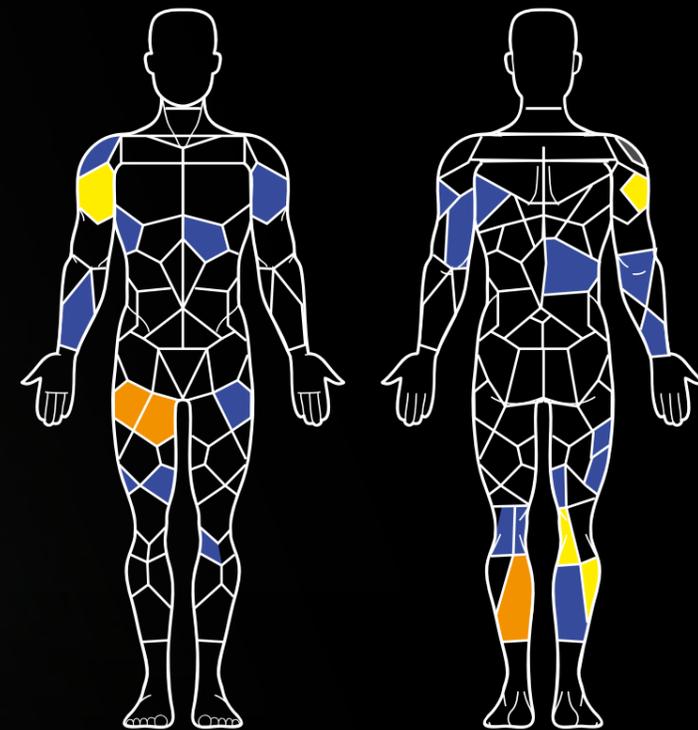
In the field of fire intervention, certain circumstances are extreme and require the best protection for the women and men who are engaged. Our research and development department and engineering team have designed the latest generation of firefighting gear, with cutting edge performance. The KERMELO® CORE FX goes beyond the current standards by presenting proven resistance to double flash over. (Tested and proven in laboratory).



KERMELO® FIBRE MAINTAINS
MAXIMAL SHORT TERM PROTECTION
AGAINST VERY HIGH TEMPERATURES
(UP TO 1,000 °C).



RESULTS AFTER 2 FLASH OVER - 2 TIMES 8S - NO 3RD DEGREE BURN



BURN INJURY PREDICTION (ACCORDING TO ISO 13506 : 2008 CLAUSE 9.5.3)

	1st° Burn	2nd° Burn	3rd° Burn	2nd° + 3rd° Burn
Pain	15.3%	2,6%	2,6%	0,0%
	2,6%	2,6%	0,0%	2,6%

*TESTED ON MULTILAYER GARMENT

CONCEPT RANGE

Our product range for the firefighter market covers the entire spectrum of needs, from fire service clothing to fire intervention products. We are presenting four textile concepts, each responding to specific fire intervention characteristics. Our dedicated firefighter portfolio has more than 10 other products.

VISION

The rescue reference

Because heat and flame are not the only danger on the field, KERMEL® VISION makes firefighters highly visible in every circumstance. KERMEL® VISION is a highly thermostable fabric without polyester; a double-sided structure with extra thermostable fibres at the back that reinforces protection.



COMPOSITION
KERMEL® : 35%
MODACRYLIC : 27%
LYOCELL : 19%
PARA-ARAMID : 11%
NYLON HT : 7%
ANTISTATIC : 1%

HEROSKIN ADVANCE

The protection that everyone deserves

The KERMEL® HEROSKIN ADVANCE is an innovative solution especially designed for fire suit outer shell. Its specific structure combines high thermal protection and strong mechanical performance. In addition, this lightweight fabric provides superior comfort for the wearer to remain focused on the mission.



COMPOSITION
KERMEL® : 79%
PARA-ARAMID : 20%
ANTISTATIC : 1%

GM 10

The universal must

The KERMEL® GM10, specially designed for firefighting suits, is one of the most effective shields against external aggressions thanks to its extremely resistant and durable structure. A superior heat and flame protection, without compromise on comfort and aspect after washing.



COMPOSITION
KERMEL® : 70%
PARA-ARAMID : 28%
ANTISTATIC : 2%

CORE FX

Never compromise
Anywhere Anyhow
Anyway

KERMEL® CORE FX is a unique technology using special yarns made of Kermel® fibres reinforced with a para-aramid core. This innovative solution enables lightweight multilayer garments for more comfort in the fight without compromising protection.



COMPOSITION
KERMEL® : 44%
PARA-ARAMID : 55%
ANTISTATIC : 1%

KERMEL® FIBRE PERFORMANCE FOR FIREFIGHTERS

FIBRE INVENTION AND PRODUCT CONCEPT CREATION

At Kermel®, we are the inventors of Kermel® fibre that gives its name to our company. Created by our Research and Development scientists, our inherently flame resistant Kermel® fibre is today a world renowned brand within all protective apparel markets. The Kermel® properties place it above current standards. It is particularly suitable for designing the best protective and fire intervention clothing for all firefighters globally.

Textile properties

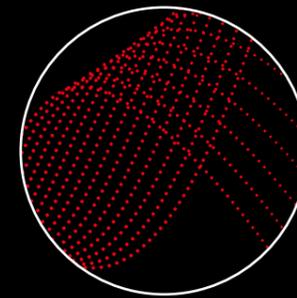
Kermel® fibre is very supple and has a unique smooth surface due to the wet spinning process, this gives Kermel® fabrics an extreme soft touch and a high comfort level.

Non-flammability

LOI (Limited Oxygen Index) determines the minimum concentration of oxygen in the air to support the combustion of a material. Kermel® fibre has a LOI of 30-32%, significantly higher than the content in a standard atmosphere (21%) and so cannot burn.

Certification

Kermel® fibres are OEKO-TEX Standard 100 certified for next to skin garments. Kermel® facilities are ISO 9001 certified. Kermel® is certified ISO 45001 for health and safety at work.



Thermostability



When subjected to flames, Kermel® fabrics retain their integrity and dimensions for a long enough time to assure the necessary protection.

Resistance



Kermel® fibre is strong while being very soft and elastic.

Long lifespan



The excellent durability of the product is mainly due to the physical characteristics of the fibre and its native resistance to abrasion.

Wash shrinkage

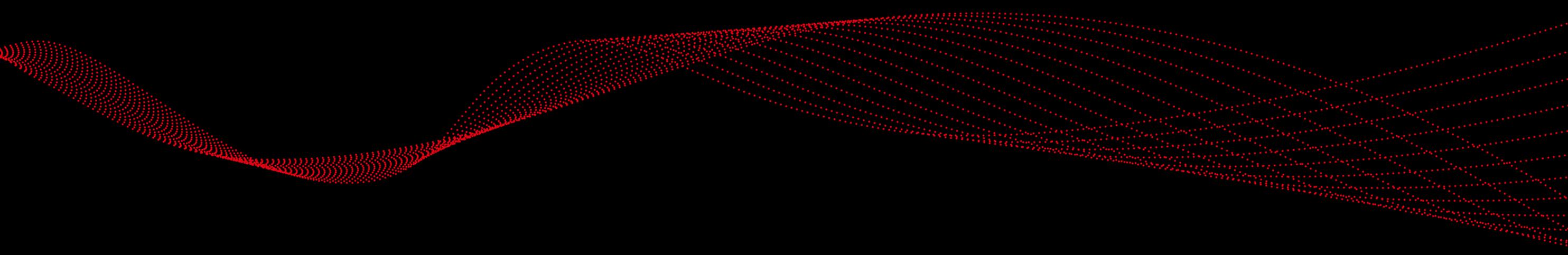


Kermel® fibre shrinks very little in boiling water or in dry air, during washing or drying, even at very high temperatures.

Dope-dyed fibre



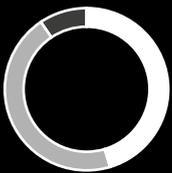
Kermel® is solution-dyed during the manufacturing process for improved colourfastness.



WORLDWIDE PRESENCE



OUR KEY MARKETS



GEOGRAPHICAL DISTRIBUTION

- NORTH AMERICA 45%
- EUROPE 45%
- ROW 10%



MARKET SEGMENT DISTRIBUTION

- INDUSTRY 45%
- FIREFIGHTERS 28%
- MILITARY & PUBLIC ORDER 27%

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