LIGHTWEIGHT FLAME-RESISTANT KNIT FABRIC

COATS® FLAMEPRO™ KNITS

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Coats FlamePro Knits is an inherent flame-resistant knitted fabric range that combines certified protection with exceptional next-to-skin comfort and freedom of movement. Its soft, breathable construction delivers a modern protective apparel solution that improves wearer acceptance and extends the range of FR options beyond traditional workwear.

Ideal for T-shirts, polo shirts, base layers, and mid-layer garments, the range offers a differentiated, higher-value FR proposition, with lightweight and comfortable protection for evolving needs.

KEY BENEFITS:

- Inherent FR performance that never washes out.
- Soft, breathable, and flexible knit construction.
- Protective performance in the style of everyday Polos and T-shirts.
- Premium, layering, and next-to-skin FR options for protective apparel.

TARGET INDUSTRIES:

Oil & Gas | Utilities & Electrical | Energy | Manufacturing | Maintenance / MRO

MULTINORM CERTIFIED

EN ISO 11611 | EN ISO 11612 | NFPA 2112 | EN ISO 20471 | ANSI-107

EN 1149-5 | AS-NZ 4399 | AATCC-100 | ISO 17299-3

Engineered for Protection. Trusted for Performance.

PRODUCT RANGE

Product	Weight	Fabric Type	Composition
FlamePro Knits	180 - 250 gsm	Single Jersey, Pique, Jaquard, Rib	Modacrylic Mulitblend

TECHNICAL DATA

Test / Property	Test Standard	Commitment
Bursting Strength	**ASTM D 3786: 2018**	≥ 600
Dimensional Change % (After 5HL)	**AATCC 135:2018**	±5%
Heat Resistance (260 °C)	**ASTM F2894**	≤10 %
Abrasion Resistance	**ASTM D 4966:2022**	≥30,000
Air Permeability	**ASTM D737**	≥350

FUNCTIONAL PROPERTIES

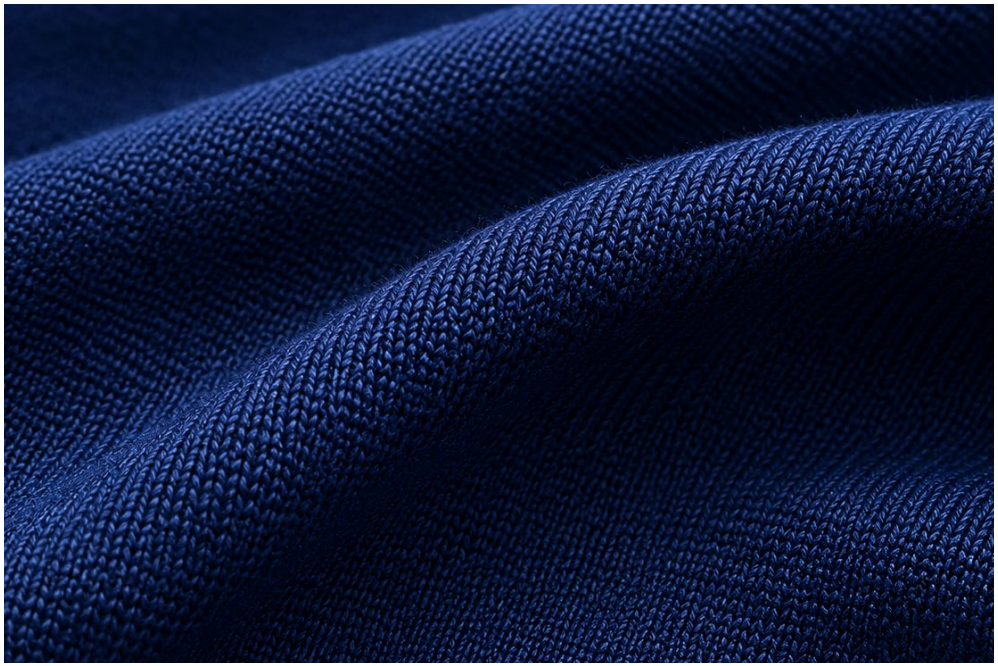
Test / Property	Test Standard	Result
Flame Resistance	**EN ISO 11612**	A1 & A2-B1-C1- F1
Flame Resistance	**NFPA2112**	Pass
Electric Arc rating	**ASTM F1959**	Cat 1
UV Protection	**AS/NZS 4399:2017**	UPF 50+

AVAILABLE COLOURS

Orange | Navy | Yellow | Khaki | Royal Blue | Black

FASTNESS PROPERTIES

Test / Property	Test Standard	Result
Colour Fastness to Laundering	**AATCC 61, No. 2A: 2020**	Colour Change: 4
Colour Fastness to Water	**AATCC 107: 2013**	Colour Change: 4
Colour Fastness to Crocking	**AATCC 8: 2016**	Dry:4 / Wet:3



OTHER PRODUCTS IN FLAMEPRO RANGE

To complement the FlamePro range, we also have a selection of specialist flame resistant fabrics. Each of these products have additional benefits specific to the end use.

Product Name	Description
FlamePro Standard	A cost-effective fabric solution for high temperature and flame protection.
FlamePro Splash	Molten metal splash protective fabric engineered to be lightweight, soft and flexible.
FlamePro Comfort	Perfect combination of ergonomic design and excellent protection against thermal hazards.
FlamePro Perform	Delivers outstanding flame resistance for keeping stability under high temperatures.
FlamePro Shield	Inherently flame-resistant fleece fabric built for cold environments.
FlamePro High Visibility	Is an inherently flame resistant and high-visibility certified fabric that is one of the lightest fabrics of its kind.
FlamePro FreshTech	An innovative inherently flame-resistant (IFR) fabric engineered with advanced anti-odour technology.
FlamePro ARC	Multi-norm fabric protection against arc flash, heat, and flame.

LET'S BUILD YOUR NEXT PROTECTIVE SOLUTION.

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