



Flame Retardant fabrics for FR-Clothing



• **FR SOFTSHELL-310**

NEW



WHY CHOOSE OUR FR-FABRICS?

XM FireLine™ designs and manufactures Flame Retardant fabrics for protective and fr-clothing.

We have 20 years experience of work with protective clothing and today we sell our fr-fabrics on 5 continents in 51 countries. XM FireLine™ represented by offices in Asia (Shanghai), Europe (Lithuania, Romania, Spain, Portugal, Poland, Italy) and South America (São Paulo).

We have 25 different flame retardant fabrics in our product range and 20 of them we have always in stock in 6 main shades. Other 5 fr-fabrics we make per order.

All our FR-fabrics resist 50/100 wash cycles and certified to ISO 11612. Most of our fabrics are also certified to EN 11611 for welding, 1149 for antistatic properties and EN 61482 for Arc Electric.

We test every production lot to deliver you 100% quality.

SAFETY & PROTECTION



XM flame retardant fabrics protect against Heat & Flame. FR-clothing made of our fr-fabrics increases safety of workers due to proven quality, confirmed by certification in BTGG (UK), AITEX (Spain).

QUALITY



XM flame retardant fabrics are made with high grade combed cotton for softness and durability. We use double FR-treatment (THPC) to guarantee FR properties last 50-100 washes. Antistatic properties are provided by Belltron (Japan) antistatic carbon yarn and we use VAT dyes to have CF to washing 4-5. Every batch of XM FireLine fabrics is tested for Flame Resistance after 50 washes.

ECO-FRIENDLY



XM flame retardant fabrics are OEKO-TEX 100 certified. That means our fabrics consists no harmful substances and ecologically friendly to the wearers. We renew the certificate OEKO-TEX every year, since it is valid for only 12 months. XM fabrics are also continuously tested for Formaldehyde content and the tests always confirm that our fabrics are ECO-friendly.

FR-STANDARDS



XM flame retardant fabrics are tested according to the requirements of European ISO system and also to the American NFPA standards. The reason is simple - we have clients all over the world and we must comply to different international standards. XM fabrics have been tested more rigorously and have maximum compliance to FR-standards.

FLAME RESISTANCE AFTER 100 WASHES



XM fabrics (8 fabrics) have been tested in AITEX lab (Spain) for flame resistant properties after 100 wash cycles. The fr-fabrics undergone industrial laundry at 75°C for 100 washes according to ISO 15797. After that Limited Flame Spread test has been done by ISO 15025. No After-flame or After-glow has been observed.

CERTIFICATES



XM flame retardant fabrics are certified to the following standards: ISO 11611, ISO 11612, EN ISO 1149, EN 13034, EN 61482-1-2, EN 469, EN 20471, EN 14116, etc. The certificates have been obtained in international laboratories and available for download on our web-site www.XMFireLine.com



OUR FR-FABRIC RANGE



#	PAGE	WEIGHT GSM	FABRIC	DESCRIPTION	USABLE WIDTH/ CM	EN ISO 11612	EN ISO 11611	EN ISO 1149-5	EN ISO 13034	EN 61482-1-1	EN 61482-1-2
1	4	480	GEFEST-480	100% COTTON • SATIN 5/2 • FR	150	■	■				
2	6	420	GEFEST-420	100% COTTON • SATIN 4/1 • FR	150	■	■				
3	8	350	ETNA	99% COTTON • 1% AS • SATIN 4/1 • FR	150	■	■	1149-3		9.3 CAL/CM²	CLASS 1 (4 KA)
4	10	330	CORFU-330	99% COTTON • 1% AS • TWILL 3/1 • FR	150	■	■	1149-3			CLASS 1 (4 KA)
5	12	320	MADEIRA-320	100% COTTON • TWILL 3/1 • FR	150	■	■				
6	14	220	FIJI	99% COTTON • 1% AS • TWILL 2/1 • FR	150	■	■	1149-3			
7	16	300	POSEIDON-300	80% COTTON • 19% POLYESTER • 1% AS • TWILL 2/2 • FR • MULTI-RISK	150	■	■	1149-3	■	9.6 CAL/CM²	CLASS 1 (4 KA)
8	18	245	POSEIDON-245	80% COTTON • 19% POLYESTER • 1% AS • TWILL 2/2 • FR • MULTI-RISK	150	■	■	1149-3	■		CLASS 1 (4 KA)
9	20	270	POSEIDON-270 STRETCH	76% COTTON • 19% POLYESTER • 4% XLA • 1% AS • TWILL 5/3 • FR • MULTI-RISK	150	■	■	1149-3	■		CLASS 1 (4 KA)
10	22	275	STORM-275	75% COTTON • 24% POLYESTER • 1% AS • TWILL 2/2 • FR • MULTI-RISK	150	■	■	1149-3	■		CLASS 1 (4 KA)
11	24	185	SONORA	80% COTTON • 20% POLYESTER • PLAIN 1/1 • FR	150	■					
12	26	185	SONORA AS	80% COTTON • 19% POLYESTER • 1% AS • PLAIN 1/1 • FR	150	■		1149-3			
13	28	260	VOLCANO	87% COTTON • 12% NYLON • 1% AS • SATIN 4/1 • FR • MULTI-RISK	150	■	■	1149-3	■		CLASS 1 (4 KA)
14	30	280	KEON-280	87% COTTON • 12% NYLON • 1% AS • TWILL 2/2 • FR • MULTI-RISK	150	■	■	1149-3	■		CLASS 1 (4 KA)
15	32	170	SPARK-170	100% COTTON • PLAIN 1/1 • FR	150	■					
16	34	120	ARAVIS-120	50% M-ARAMID • 50% FR VISCOSE • PLAIN 1/1	150	■					
17	36	210	ARTEX-210	93% M-ARAMID • 5% P-ARAMID • 2% AS • TWILL 2/1	150	■		1149-3	■*		CLASS 1 (4 KA)
18	38	280	FR-FLEECE-280	60% MODACRYLIC • 38% COTTON • 2% AS • KNITTED FABRIC	150	■		1149-3			CLASS 1 (4 KA)
19	40	200	FR-JERSEY-200C	60% MODACRYLIC • 38% COTTON • 2% AS • KNITTED FABRIC	155	■		1149-3			CLASS 1 (4 KA)
20	42	230	FR-PIQUE-230	60% MODACRYLIC • 38% COTTON • 2% AS • KNITTED FABRIC	165	■		1149-3		8 CAL/CM²	
21	44	255	SIRENA-255	55% MODACRYLIC • 32% COTTON • 7% FR POLYAMIDE • 5% PARA-ARAMID • 1% AS • RIPSTOP • MULTI-RISK	150	■	■	1149-3	■	9.8 CAL/CM²	
22	46	270	THOR-270	60% MODACRYLIC • 38% COTTON • 2% AS • TWILL 2/1	150	■	■	1149-3		8 CAL/CM²	
23	48	300	ITAKA-300	46% MODACRYLIC • 25% POLYESTER • 12% CELLULOSE • 8% ARAMID • 8% POLYAMIDE • 1% AS • TWILL • MULTI-RISK	150	■	■	1149-3	■		CLASS 1 (4 KA)
24	50	310	FR SOFTSHELL-310	42% MODACRYLIC • 29% COTTON • 19% FR PA • 5% PARA-ARAMID • 4% EOL • 1% AS • TWILL 2/1 • MULTI-RISK	150	■	■	1149-3	EN 343	23 CAL/CM²	
25	52	250	FR-OXFORD-250	98% POLYESTER • 2% AS • PLAIN 1/1 • FR	150	EN 14116		1149-3	EN 343		

[*] - optional treatment, make per order

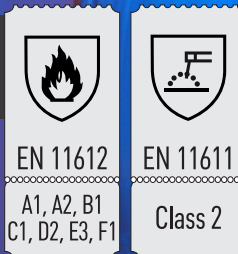
MULTI-RISK finish conforms to EN ISO 13034 standard and adds resistance to such substances as Water, Oil, some Acids and Alkali.
 We have ALL the Certificates mentioned in the table above on our web-site to view or download in open access (no registration required).
AITEX (SPAIN), **BTTG** (UK), **KINECTRICS** (CANADA) ARE TESTING LABORATORIES WHERE WE TEST AND CERTIFY XM FIRELINE FABRICS.



GEFEST-480

100% COTTON , 480 GSM, SATIN 5/2

100x
WASH*



FLAME RETARDANT

COTTON FABRIC | WELDING

Flame retardant fabric Gefest-480 is designed for welders working on open sea oil-platforms, in dry docks or in naval shipyards. Gefest-480 protective fabric is also used for welding jackets and trousers in machinery, metallurgy, oil and gas pipeline construction, automotive industry, etc.

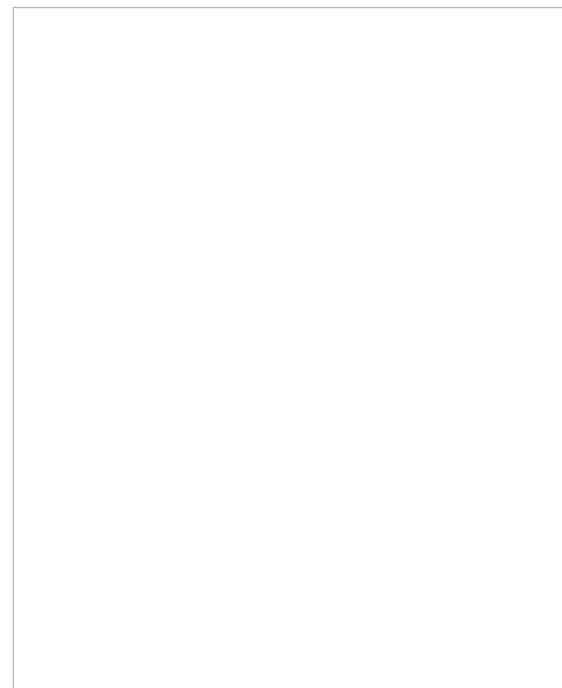
The specific feature of Gefest-480 is it's fantastic tear and tensile strength. The fabric is so strong that it's impossible to tear it with bare hands. High durability of the fabric is achieved through the use of long staple cotton fibers which are twisted into the warp and weft. Such durability increases the life cycle of welder's clothing. Moreover, satin weave makes molten metal drops slide off of the smooth surface instead of sticking to it what prevents fabric from ignition. Gefest-480 is a soft fabric which makes comfortable garments and provides protection from Heat and Flame (ISO 11611 & ISO 11612 certified).

(*) Tested in accordance to ISO 15025 met. A and B after 100 industrial washes at 75 °C



GEFEST-480

AVAILABLE COLOURS:*



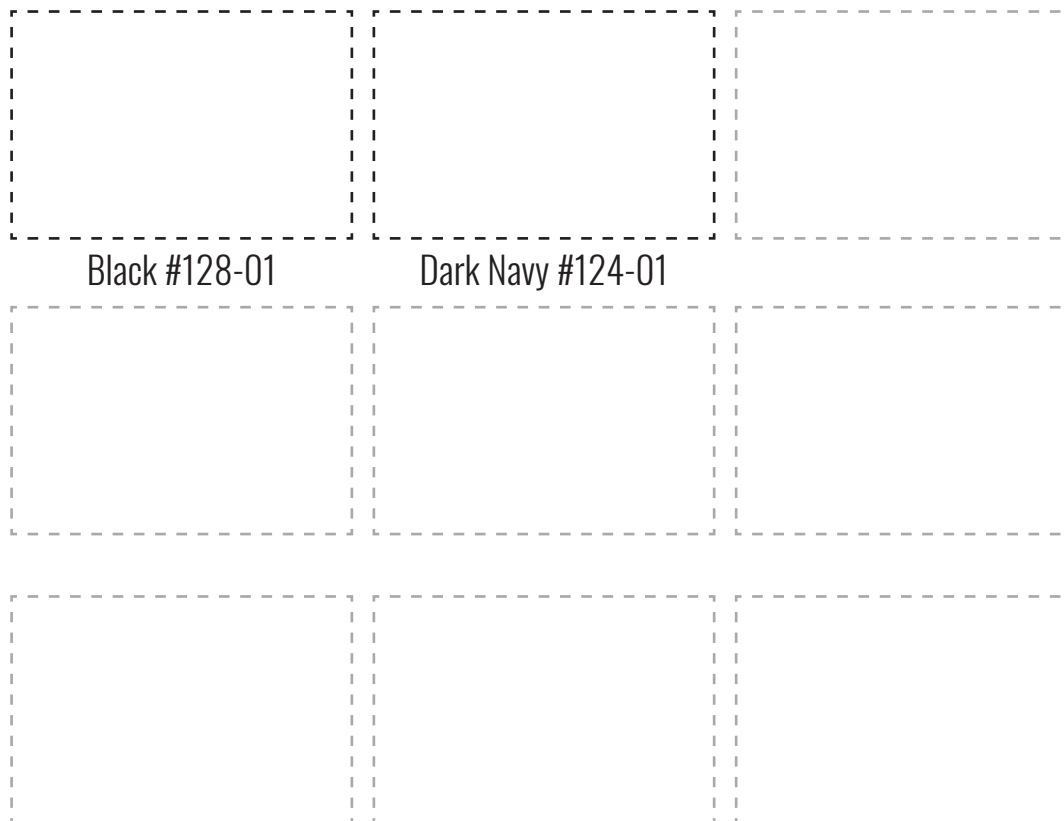
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
GEFEST-480	100% Cotton	—	480 gsm ±5%	Satin 5 /2	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	1800 N	28 N	≤ 3%		35 000 rubs	4
WEFT	1200 N	25 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4
STAIN ON POLYESTER		4-5	4-5	4	4
STAIN ON COTTON		4	4	4	4
WET RUBBING	ISO 105 X12	3	3	2-3	2
DRY RUBBING	ISO 105 X12	4	4	4	4
LIGHT	ISO 105 B02	3	4	4	4

GEFEST-420

100% COTTON , 420 GSM, SATIN 4/1



FLAME RETARDANT

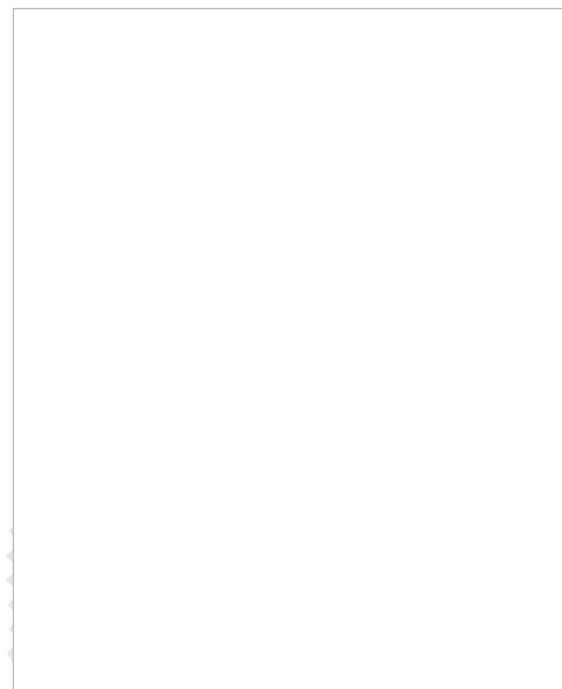
COTTON FABRIC | WELDING

Gefest-420 flame retardant protective fabric is purposed for professional welders clothing used in variety areas like machinery, metallurgy, oil and gas pipeline construction, automotive industry, etc. Satin weave of Gefest-420 is extremely useful on protective overalls, bibs and aprons for welders and other workers making molten metal drops slide off of the smooth surface of fabric easily. Being made of natural fibers it makes comfortable garments to wear and protects from risks of Flash Fire and Electric Arc.



GEFEST-420

AVAILABLE COLOURS:*



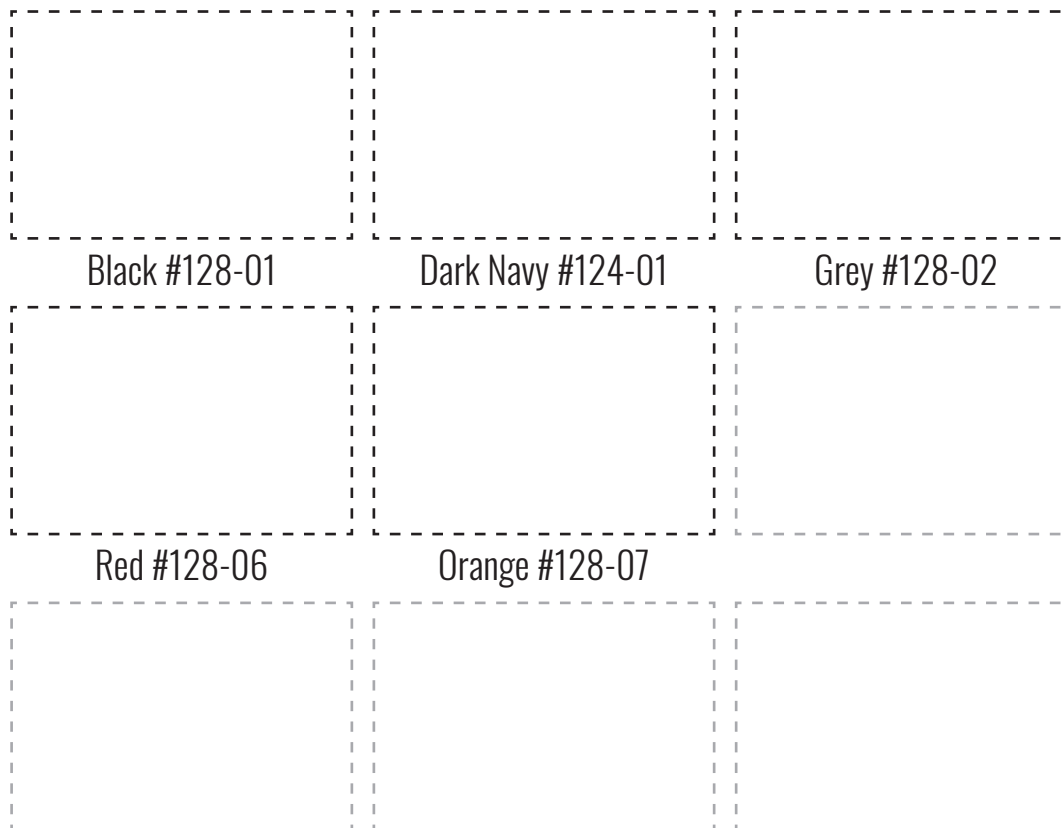
* Actual colours of fabric may vary.

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CARE INSTRUCTIONS:



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SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
GEFEST-420	100% Cotton	—	420 gsm ±5%	Satin 4 /1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes	Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2	
WARP	1700 N	36 N	≤ 3%	31 300 rubs	4	
WEFT	1500 N	57 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		4-5	4-5	4	4
STAIN ON COTTON		4	4	4	4
WET RUBBING	ISO 105 X12	3	3	2-3	2
DRY RUBBING	ISO 105 X12	4	4	4	4
LIGHT	ISO 105 B02	3	4	4	4

ETNA

99% COTTON , 1% ANTISTATIC YARN,
350 GSM, SATIN 4/1

100x
WASH*

				
EN 11612	EN 11611	EN 1149-5	EN 61482-1	EN 61482-2
A1, A2, B1 C1, D3, E3, F1	Class 1	EN 1149-3 method 2	ELIM 9,3 cal/cm²	Class 1

FLAME RETARDANT, ANTISTATIC

COTTON FABRIC | OIL & GAS

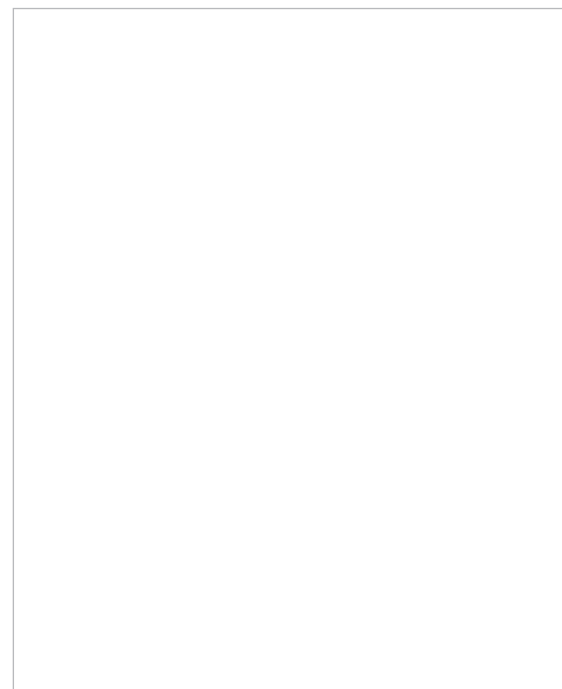
Etna is a 350 gsm middleweight quality cotton fabric with a flame retardant finishing designed for garments used in metallurgy. Etna FR-fabric has the highest level of protection from molten metal splashes with E3, in accordance to ISO 9185. Satin weave of Etna fabric is very useful on protective overalls, bibs and aprons for welders and other workers making molten metal drops slide off of the smooth surface of fabric easily. Being made of natural fibers it makes comfortable garments to wear and protects from risks of Flash Fire, Electric Arc and ESD sparks. Carbon antistatic yarn woven in stripes makes garments absolutely safe to wear in explosive environment and ensures the necessary charge decay.

(*) Tested in accordance to ISO 15025 met. A and B after 100 industrial washes at 75 °C



ETNA

AVAILABLE COLOURS:*



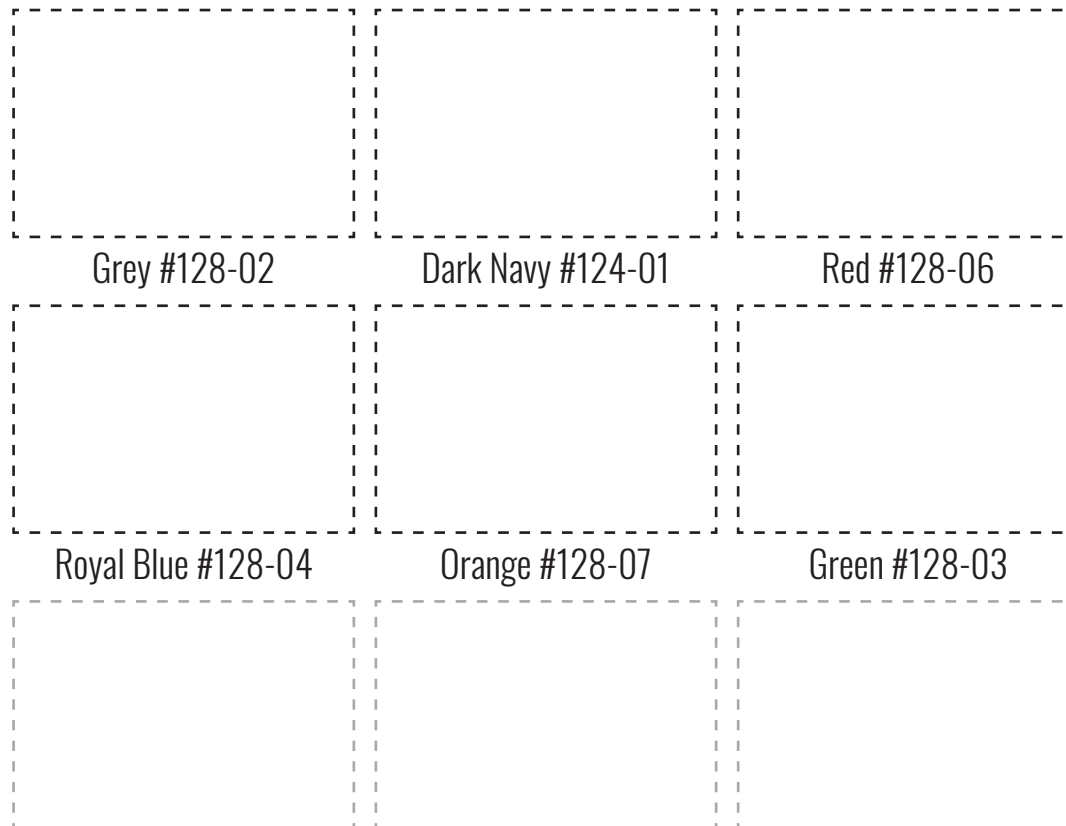
* Actual colours of fabric may vary.

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CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
ETNA	99% Cotton, 1% Antistaic Yarn	Carbon (Belltron)	350 gsm ±5%	Satin 4 /1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	1400 N	38 N	≤ 3%		21 000 rubs	4
WEFT	1100 N	65 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red	Green, Grey	Dark Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		4-5	4-5	4	4
STAIN ON COTTON		4	4	4	4
WET RUBBING	ISO 105 X12	3	3	2-3	2-3
DRY RUBBING	ISO 105 X12	4	4	4	4
LIGHT	ISO 105 B02	3	4	4	4



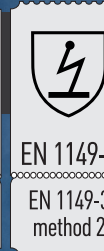
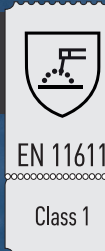
FLAME RETARDANT FABRIC FOR FR-CLOTHING

CORFU-330

99% COTTON, 1% ANTISTATIC YARN

330 GSM, TWILL 3/1

50 x
WASH*



FLAME RETARDANT, ANTISTATIC

COTTON FABRIC | MACHINE BUILDING

Corfu-330 is a flame-retardant 100% cotton fabric with 330 gsm density, with a classic twill 3/1 weave. Made of 100% natural fibre, it is comfortable to wear as everyday flame-retardant workwear such as FR-pants, FR-jackets, FR-bibs, and FR-overalls.

(*) Tested after 50 domestic washes at 60 °C

10 XM FireLine

OUR PARTNERS

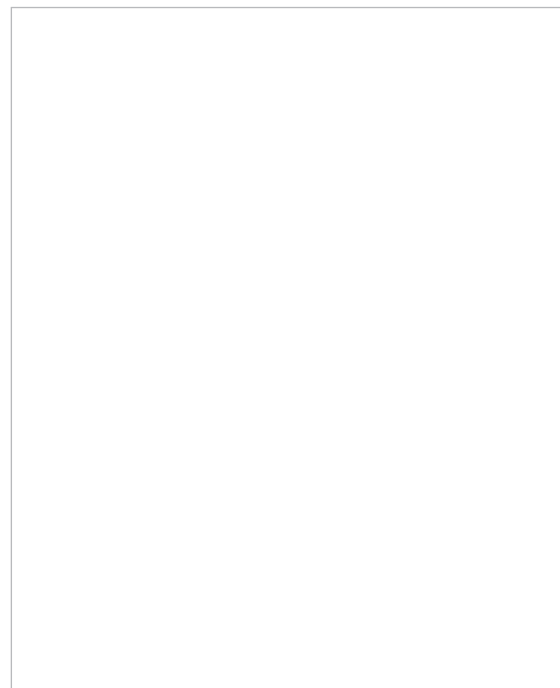


SCAN FOR
DETAILS



CORFU-330

AVAILABLE COLOURS:*



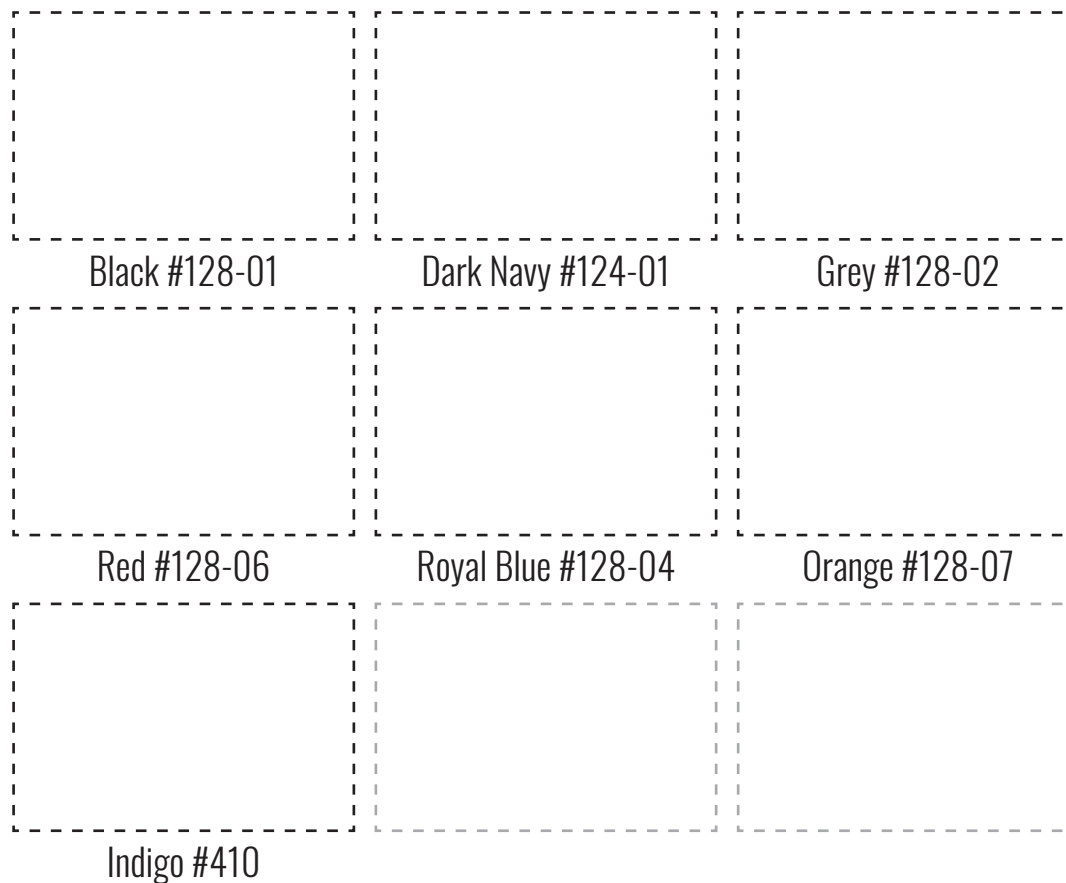
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
CORFU-330	99% Cotton, 1% Antistatic yarn	Carbon (Belltron)	330 gsm ±5%	Twill 3 / 1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	1100 N	28 N	≤ 3%		20 000 rubs	3-4
WEFT	610 N	25 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red	Grey	Dark Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		4-5	4-5	4	4
STAIN ON COTTON		4	4	4	3-4
WET RUBBING	ISO 105 X12	3	3	2-3	2
DRY RUBBING	ISO 105 X12	4	4	4	4
LIGHT	ISO 105 B02	3	4	4	4

MADEIRA-320

100% COTTON, 320 GSM, TWILL 3/1



FLAME RETARDANT

COTTON FABRIC | MACHINE BUILDING

Madeira-320 is a flame retardant protective fabric made of pure long staple cotton. It can be used for middleweight clothing for welding as well as in metal processing works in heavy machinery, automotive industry, etc. Madeira-320 is a balanced choice for daily used FR-trousers, FR-jackets, FR-coveralls or FR-bibs in work environment with risks of exposure to heat and flame. Being made of 100% natural fibers it makes garments comfortable to wear and protects from risks of Flash Fire and Electric Arc at the same time.

(*) Tested in accordance to ISO 15025 met. A and B after 100 industrial washes at 75 °C

OUR PARTNERS



aitex
textile research institute

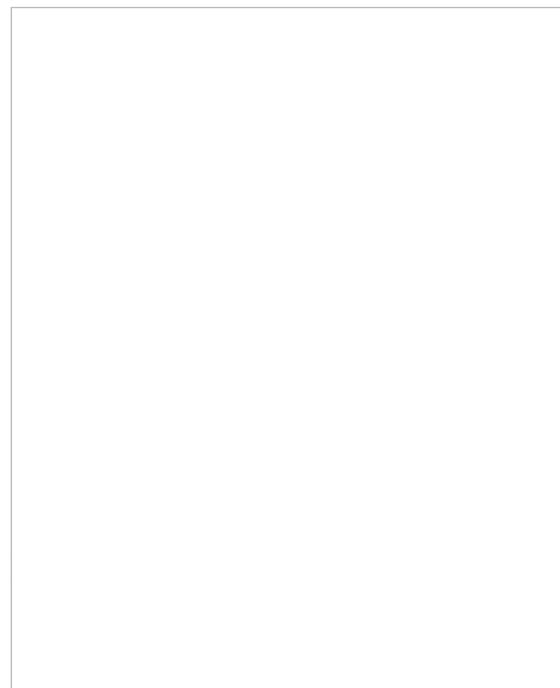


SCAN FOR
DETAILS



MADEIRA-320

AVAILABLE COLOURS:*



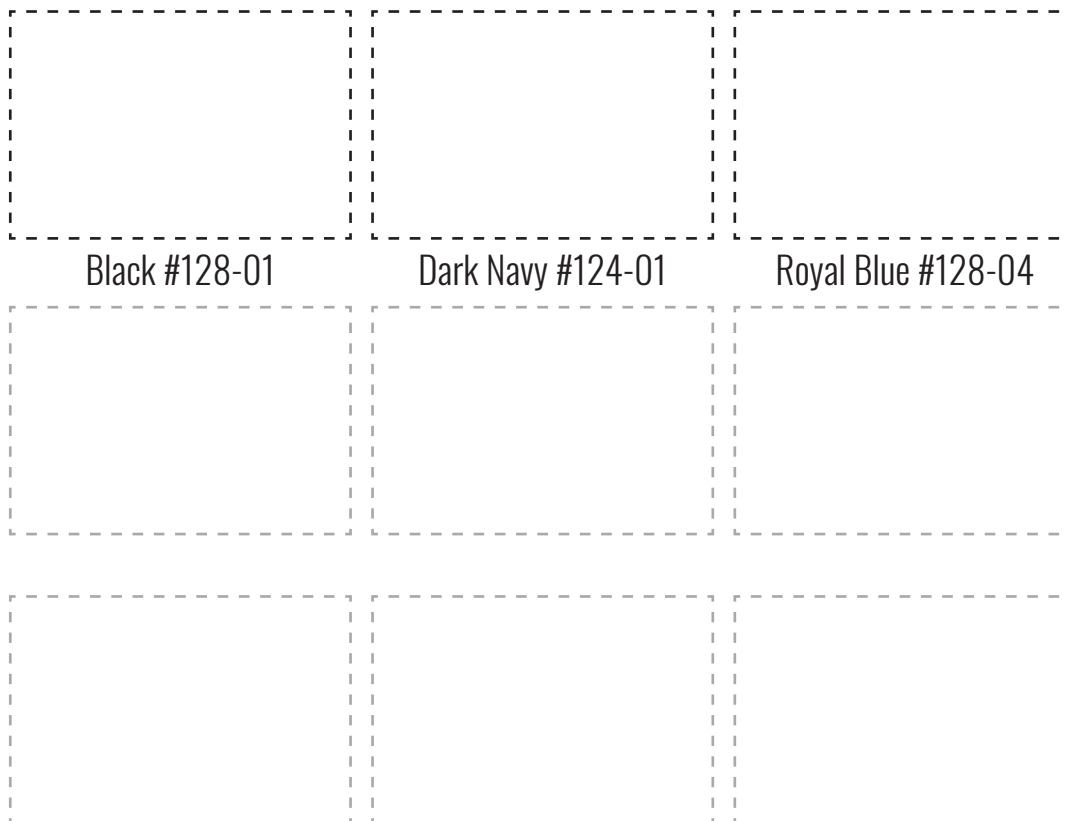
* Actual colours of fabric may vary.

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CARE INSTRUCTIONS:



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SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
MADEIRA-320	100% Cotton	—	320 gsm ±5%	Twill 3 /1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	1600 N	22 N	≤ 3%	26 500 rubs	3-4	
WEFT	1000 N	17 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		4-5	4-5	4	4
STAIN ON COTTON		4	4	4	4
WET RUBBING	ISO 105 X12	3	3	2-3	2-3
DRY RUBBING	ISO 105 X12	4	4	4	4
LIGHT	ISO 105 B02	3	4	4	4

FIJI

99% COTTON, 1% ANTISTATIC YARN,
220 GSM, TWILL 2/1

100 x
WASH*



EN 11612

A1, A2, B1,
C1, E3, F1



EN 1149-5

EN 1149-3
method 2



EN 11611

Class 1



EN 61482-1

7,9 cal
cm²

FLAME RETARDANT, ANTISTATIC

COTTON FABRIC | LIGHTWEIGHT UNIFORM

Fiji is a light flame retardant fabric with classic twill weave, developed specially for light flame retardant clothing. Fiji protective fabric is recommended for use as a middle layer of fr-clothing, like shirts, vests, light pants, or even light overalls for hot climate. FR-clothing made of Fiji fabric in combination with fire-resistant underwear and fire-resistant outer clothes provides superb protection of workers in risk zones. Made of natural fibers it is soft and comfort to wear and at the same time Fiji FR-fabric protects from risks of Flash fire and ESD sparks. Carbon antistatic yarn integrated as stripes in the surface of Fiji makes it absolutely safe for use in explosive atmospheres. To prevent Electrostatic Discharge (ESD) sparks, antistatic fibers safely discharge static electricity eliminating the risk of fire and explosion.

(*) Tested in accordance to ISO 15025 met. A and B after 100 industrial washes at 75 °C

OUR PARTNERS

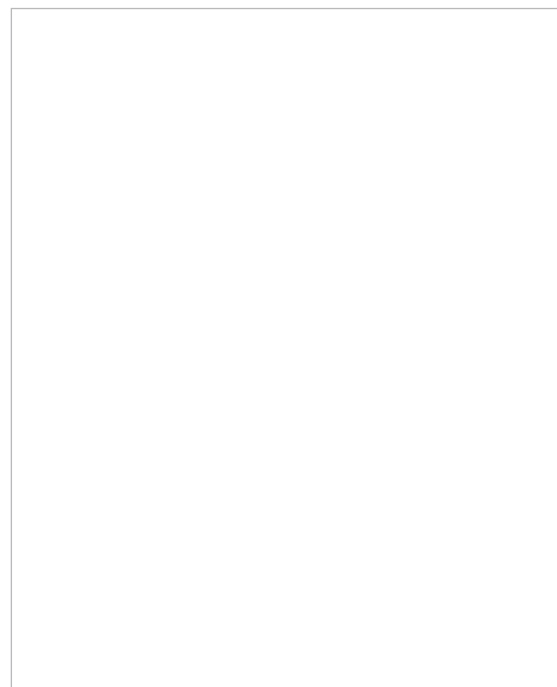


SCAN FOR
DETAILS



FIJI

AVAILABLE COLOURS:*



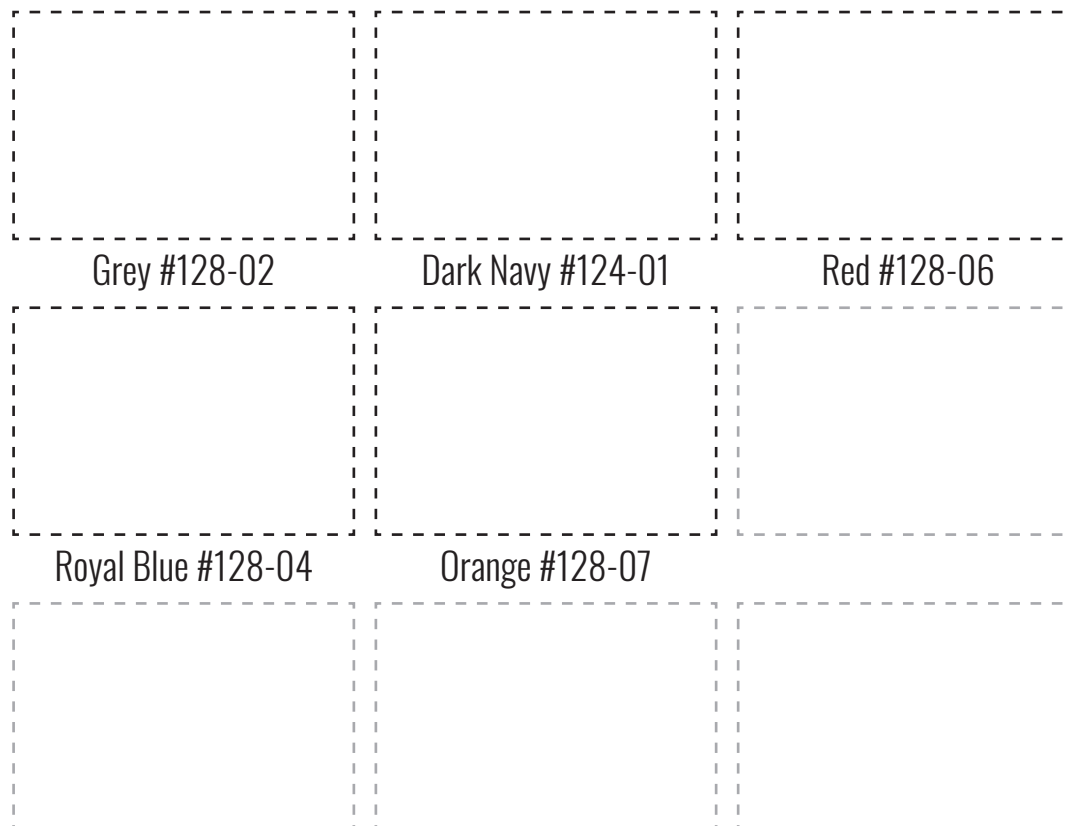
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CARE INSTRUCTIONS:



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SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
FIJI	99% Cotton, 1% Antistatic yarn	Carbon (Belltron)	220 gsm ±5%	Twill 2 /1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes	Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2	
WARP	1200 N	21 N	≤ 3%	20 000 rubs	4	
WEFT	430 N	24 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Grey	Dark Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		4-5	4-5	4	4
STAIN ON COTTON		4	4	4	3-4
WET RUBBING	ISO 105 X12	3	3	2-3	2
DRY RUBBING	ISO 105 X12	4	4	4	4
LIGHT	ISO 105 B02	3	4	4	4

POSEIDON-300

80% COTTON, 19% POLYESTER,
1% ANTISTATIC YARN,
300 GSM, TWILL 2/2

FLAME RETARDANT
ANTISTATIC, MULTI-RISK

COTTON | POLYESTER FABRIC
TRANSPORTATION OF OIL & GAS

Poseidon 300 is a high quality poly-cotton fabric with high content of cotton, improved by addition of polyester and antistatic yarn. It is developed for workers of Oil and Gas industries and it suits well both for rig-chiefs jackets and trousers and for oil-pipeline workers uniforms. The fabric with modern 2/2 twill weave is very comfortable to wear, has much better than pure cotton tear resistance and has excellent antistatic properties. An optional Multi-Risk treatment, makes it water repellent and also resistant to the influence of acids, alkali, grease and oil.

100 x
WASH*



EN 11612
A1, A2, B1
C1, D1, E3, F1



EN 11611
Class 1



EN 1149-5
EN 1149-3
method 2



EN 13034



EN 61482
ATPV
9,6 cal/cm²



EN 61482-2
Class 1



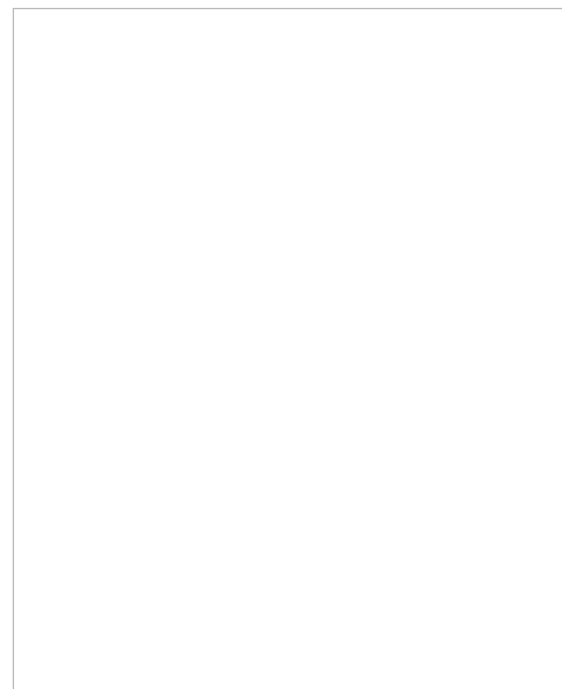
EN 20471

(*) Tested in accordance to ISO 15025 met. A and B after 100 industrial washes at 75 °C



POSEIDON-300

AVAILABLE COLOURS:*



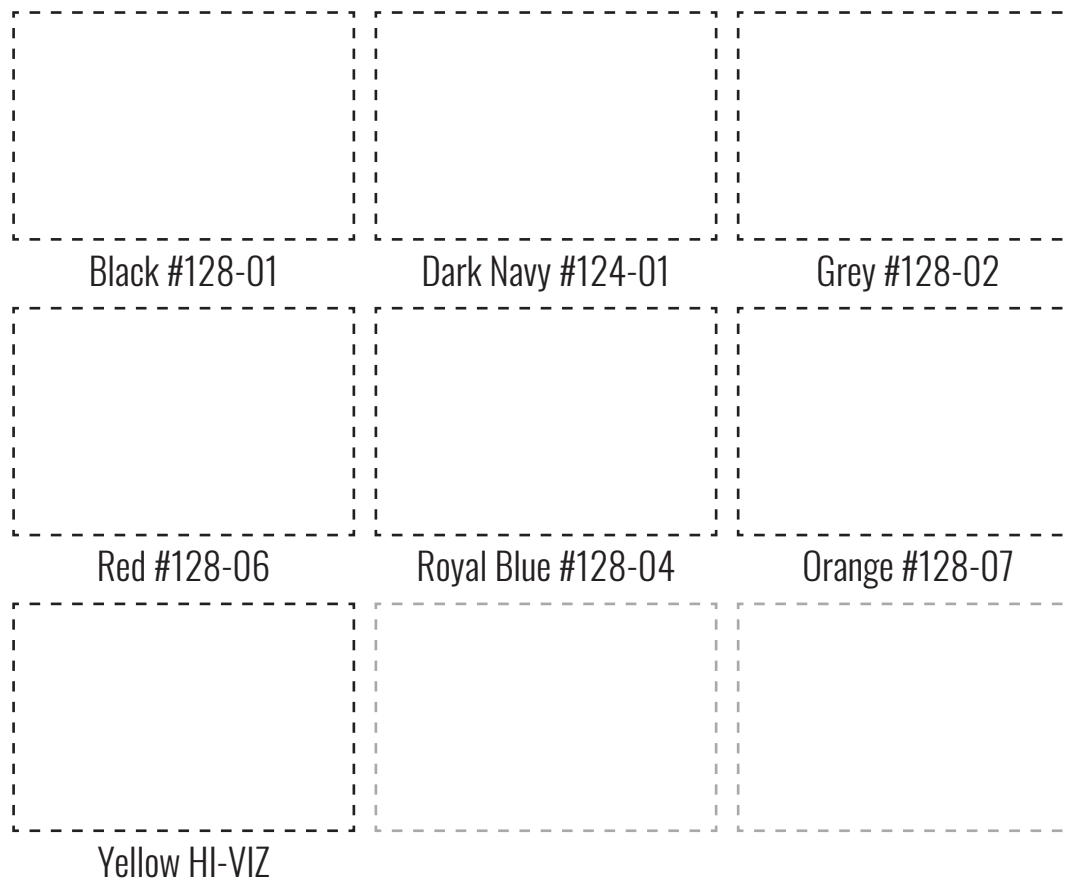
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CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
POSEIDON 300	80% Cotton, 19% Polyester, 1% Antistatic yarn	Carbon (Belltron)	300 gsm ±5%	Twill 2 /2	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	1400 N	21 N	≤ 3%		28 300 rubs	4
WEFT	700 N	17 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		3-4	4	2-3	2-3
STAIN ON COTTON		4	4-5	4	3-4
WET RUBBING	ISO 105 X12	3-4	3-4	2-3	2-3
DRY RUBBING	ISO 105 X12	4-5	4-5	3	3-4
LIGHT	ISO 105 B02	3	3-4	3-4	4

POSEIDON-245

80% COTTON, 19% POLYESTER,
1% ANTISTATIC YARN,
245 GSM, TWILL 2/2

100 X
WASH*

					
EN 11612	EN 11611	EN 1149-5	EN 13034	EN 61482-2	EN 20471
A1, A2, B1 C1, D2, E3, F1	Class 1	EN 1149-3 method 2		Class 1	

FLAME RETARDANT
ANTISTATIC, MULTI-RISK

COTTON | POLYESTER FABRIC
TRANSPORTATION OF OIL & GAS

Poseidon-245 is a lighter version of our popular fabric Poseidon-300 from XM FireLine range. Cotton rich blend ensures comfort with high quality natural fibers and features durability properties of polyester, such as higher tear and abrasion resistance. This fabric has been developed for use in a broad range of industries including petrochemical, utilities, etc., especially for hot climate countries. Modern 2/2 twill weave is complemented by Belltron® carbon antistatic yarn in a stripe pattern. Flame retardant and antistatic properties provide an excellent protection from risks of Flash Fire and ESD sparks. Poseidon-245 is optimal for summer protective FR clothes for its light weight, comfortable wearing and good level of protection.

(*) Tested in accordance to ISO 15025 met. A and B after 100 industrial washes at 75 °C



POSEIDON-245

AVAILABLE COLOURS:*

Grey #128-02

Dark Navy #124-01

Red #128-06

Royal Blue #128-04

Orange #128-07

Yellow HI-VIZ

* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.

SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
POSEIDON-245	80% Cotton, 19% Polyester, 1% Antistatic yarn	Carbon (Belltron)	245 gsm ±5%	Twill 2 /2	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	1200 N	25 N	≤ 3%	25 000 rubs	4	
WEFT	540 N	20 N	≤ 3%			

COLOUR FASTNESS

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		3-4	4	2-3	2-3
STAIN ON COTTON		4	4-5	4	3-4
WET RUBBING	ISO 105 X12	3-4	3-4	2-3	2-3
DRY RUBBING	ISO 105 X12	4-5	4-5	3	3-4
LIGHT	ISO 105 B02	3	3-4	3-4	4

POSEIDON-270 STRETCH

50 x
WASH*

25 x
WASH*



EN 11611

Class 1



EN 11612

A1, A2, B1,
C1, E3, F1



EN 1149-5

EN 1149-3
method 2



EN 13034



EN 61482-2

Class 1



EN 20471

76% COTTON, 19% POLYESTER, 4% XLA, 1% AS
270 GSM, TWILL 5/3

FLAME RETARDANT, ANTISTATIC,
MULTI-RISK, BREATHABLE

COTTON & POLY STRETCH FABRIC | FIRST RESPONDERS

In demanding work environments, the choice of fabric can significantly impact both safety and comfort. Our high-quality, cotton-rich fabric POSEIDON-270 STRETCH is designed to meet these needs with its unique properties.

Key Features

- Stretchability: The fabric's stretchability provides comfort and flexibility, making it ideal for garments that require a close fit.
- Durability: It withstands up to 50 industrial wash cycles, ensuring long-lasting performance and maintaining its integrity over time.
- Antistatic Abilities: This fabric is engineered to reduce static electricity, enhancing safety in environments where static discharge could pose a risk.

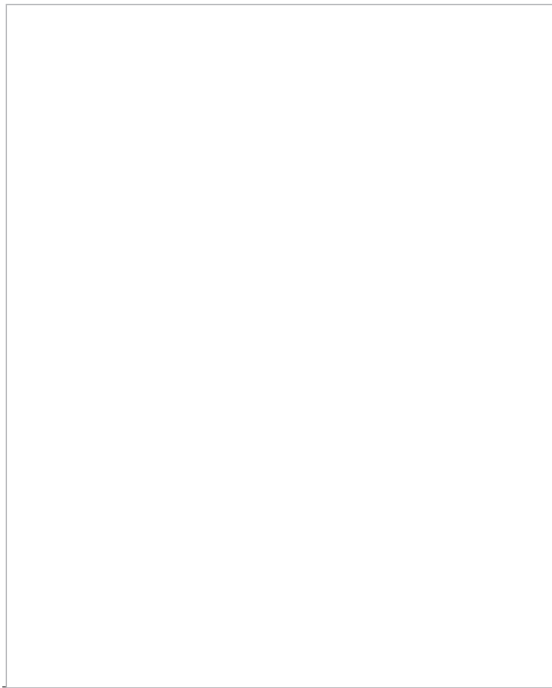
(*) Tested EN 11611, EN 11612, EN 1149-5, EN 61482-2 after 50 industrial washes at 75°C.

(*) Tested EN 20471 after 25 domestic washes at 25°C.



POSEIDON-270 STRETCH

AVAILABLE COLOURS:*

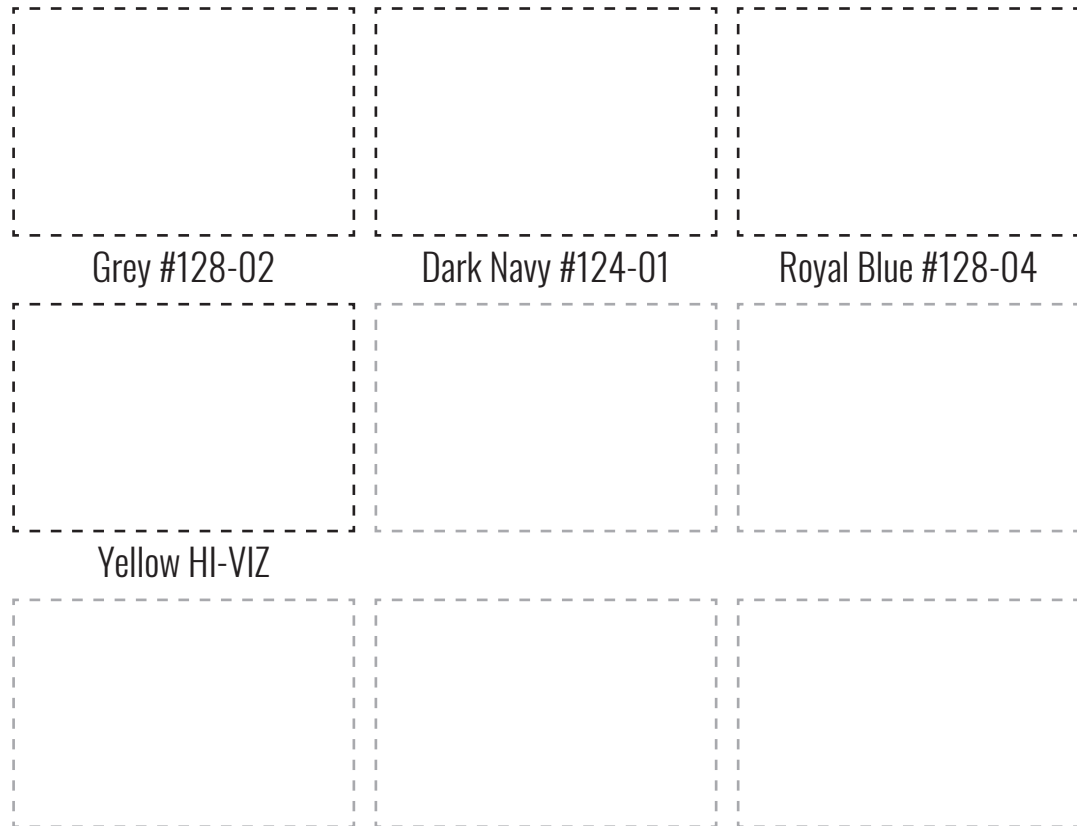


* Actual colours of fabric may vary.
This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
POSEIDON-270 STRETCH	76% Cotton, 19% Polyester, 4% XLA, 1% AS	Carbon (Belltron)	270 gsm ±5%	Twill 5/3	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Elongation ISO 13934-1:2013	Shrinkage ISO 5077 after 5 washes	Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	970 N	22 N	12%	≤ 3%	2 000 rubs	4
WEFT	640 N	33 N	28%	≤ 3%		

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		3-4	4	2-3	2-3
STAIN ON COTTON		4	4-5	4	3-4
WET RUBBING	ISO 105 X12	3-4	3-4	2-3	2-3
DRY RUBBING	ISO 105 X12	4-5	4-5	3	3-4
LIGHT	ISO 105 B02	3	3-4	3-4	4

STORM-275

75% COTTON, 24% PES, 1% ANTISTATIC
275 GSM, TWILL 2/2

FLAME RETARDANT, ANTISTATIC,
OIL & WATER REPELLENT, BREATHABLE

COTTON | POLYESTER FABRIC
TRANSPORTATION OF OIL & GAS

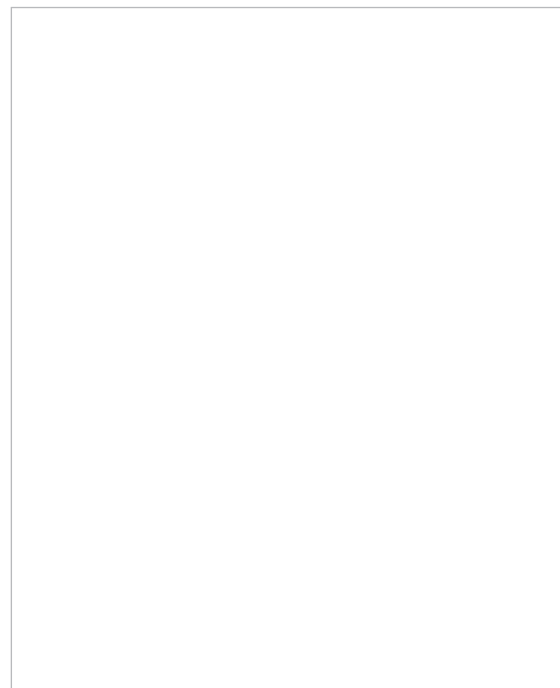
Clothes made of fabric are characterized by high strength and durability in use. Cotton ensures comfort in all conditions, perfectly absorbs sweat and is breathable. This fabric is resistant to tearing and tearing thanks to the addition of polyester. It provides protection against hot factors and metal splashes even after 25 washing cycles. Thanks to the acid-protective finish, it is resistant to accidental contact with specific chemicals but also with water and dirt. Antistatic properties obtained thanks to the construction with the use of antistatic fibers. A special production process ensures color fastness and dimensional stability after washing at 60C.

					
EN 11612	EN 11611	EN 1149-5	EN 61482-2	EN 20471	EN 13034
A1, A2, B1 C1, E3, F1	Class 1	EN 1149-3 method 2	Class 1		



STORM-275

AVAILABLE COLOURS:*



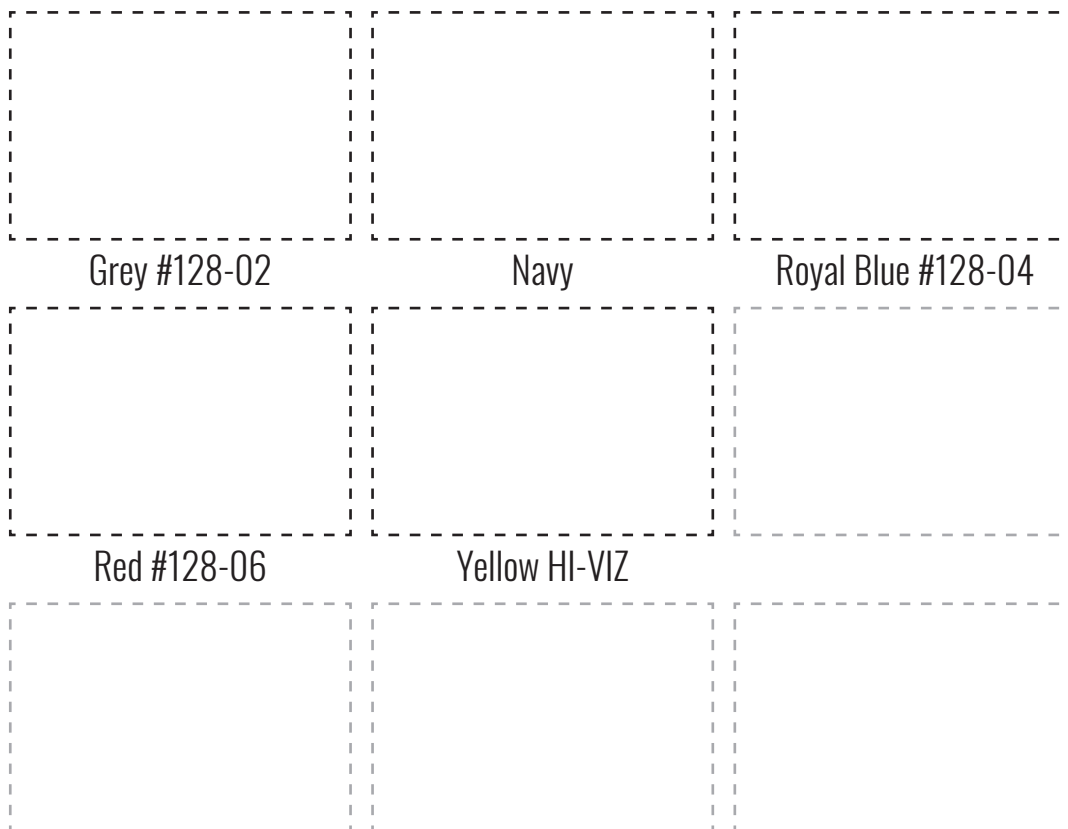
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
STORM-275	75% Cotton, 24% Polyester, 1% Antistatic	Carbon (Belltron)	275 gsm ± 5%	Twill 2/2	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	1550 N	28 N	≤ 3%		45 000 rubs	N/A
WEFT	665 N	22 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	N/A	N/A	N/A
STAIN ON POLYESTER		4-5	N/A	N/A	N/A
STAIN ON COTTON		4-5	N/A	N/A	N/A
WET RUBBING	ISO 105 X12	2-3	N/A	N/A	N/A
DRY RUBBING	ISO 105 X12	3-4	N/A	N/A	N/A
LIGHT	ISO 105 B02	N/A	N/A	N/A	N/A

SONORA

80% COTTON, 20% POLYESTER,
185 GSM, PLAIN 1/1

FLAME RETARDANT



COTTON | POLYESTER FABRIC
TRANSPORTATION OF OIL & GAS

Sonora-185 represents the perfect balance of protection and comfort for demanding hot climate applications. This expertly engineered cotton-polyester blend combines the breathability and natural comfort of premium cotton with the enhanced performance characteristics of technical polyester fibers. The lightweight 185 GSM construction ensures optimal thermal comfort without compromising protective integrity, making it the ideal choice for extended wear in high-temperature environments where flame protection is essential.



SONORA

AVAILABLE COLOURS:*

Black #128-01

* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.

SPECIFICATION

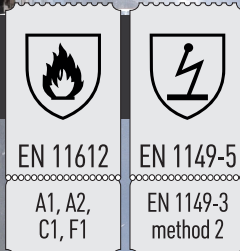
Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
SONORA	80% Cotton, 20% Polyester	—	185gsm ±5%	Plain 1/1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	750 N	16 N	≤ 3%		17 000 rubs	4
WEFT	550 N	15 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		4	4-5	4	4
STAIN ON COTTON		4-5	4-5	4-5	4
WET RUBBING	ISO 105 X12	4	3	3	3
DRY RUBBING	ISO 105 X12	4-5	4	4	4
LIGHT	ISO 105 B02	3	4	4	4

SONORA AS

80% COTTON, 19% POLYESTER,
1% ANTISTATIC YARN, 185 GSM, PLAIN 1/1

FLAME RETARDANT



COTTON | POLYESTER FABRIC TRANSPORTATION OF OIL & GAS

Sonora-185 AS delivers dual-layer protection combining advanced flame retardancy with permanent antistatic performance.

The integration of premium Belltron® antistatic yarn creates a sophisticated conductive carbon stripe matrix throughout the fabric structure, providing reliable static electricity dissipation while maintaining the comfort and durability benefits of the cotton-polyester base.

This revolutionary fabric addresses the critical safety challenges of working in explosive atmospheres where both thermal hazards and electrostatic discharge pose significant risks.

OUR PARTNERS

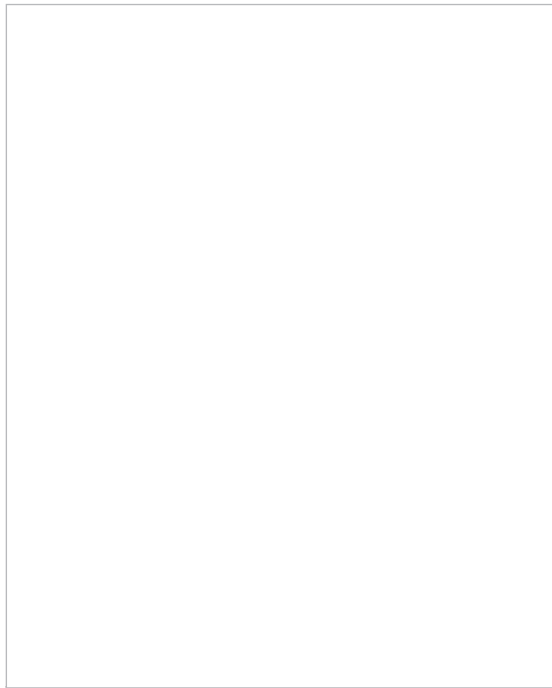


SCAN FOR
DETAILS



SONORA AS

AVAILABLE COLOURS:*



Black #128-01

Dark Navy #124-01

Royal Blue #128-04

* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.

SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
SONORA AS	80% Cotton, 19% Polyester, 1% AS	Carbon (Belltron)	185gsm ±5%	Plain 1/1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes	Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2	
WARP	750 N	16 N	≤ 3%	17 000 rubs	4	
WEFT	550 N	15 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		4	4-5	4	4
STAIN ON COTTON		4-5	4-5	4-5	4
WET RUBBING	ISO 105 X12	4	3	3	3
DRY RUBBING	ISO 105 X12	4-5	4	4	4
LIGHT	ISO 105 B02	3	4	4	4

VOLCANO

87% COTTON, 12% NYLON,
1% ANTISTATIC YARN,
260 GSM, SATIN 4/1

100x
WASH*



EN 11612
A1, A2, B1
C1, D2, E3, F1



EN 11611
Class 1



EN 1149-5
EN 1149-3
method 2



EN 13034



EN 61482-2
Class 1

FLAME RETARDANT
ANTISTATIC, MULTI-RISK

COTT(COTTON/NYLON FABRIC | OIL & GAS

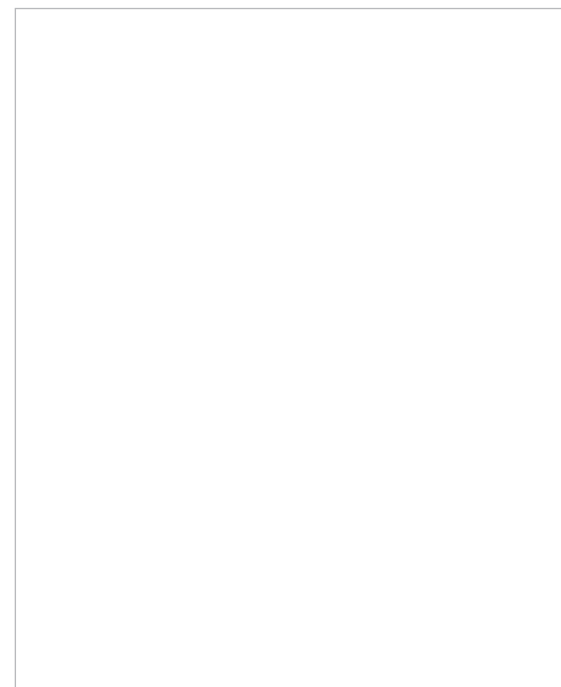
Volcano is an innovative flame retardant cotton-nylon blend being extremely tear resistant yet relatively light. Durability of this fabric sufficiently increases life cycle of flame retardant garment. Weighing only 260 gsm Volcano fabric doesn't cut any corners in protective measures. It's also certified to ISO 11611 and ISO 11612 standards for protective clothing. Moreover, Volcano has additional Multi-Risk treatment which protects against acids, oil, grease and repels water. Multi-Risk properties are confirmed by ISO 13034 certificate.

(*) Tested in accordance to ISO 15025 met. A and B after 100 industrial washes at 75 °C



VOLCANO

AVAILABLE COLOURS:*



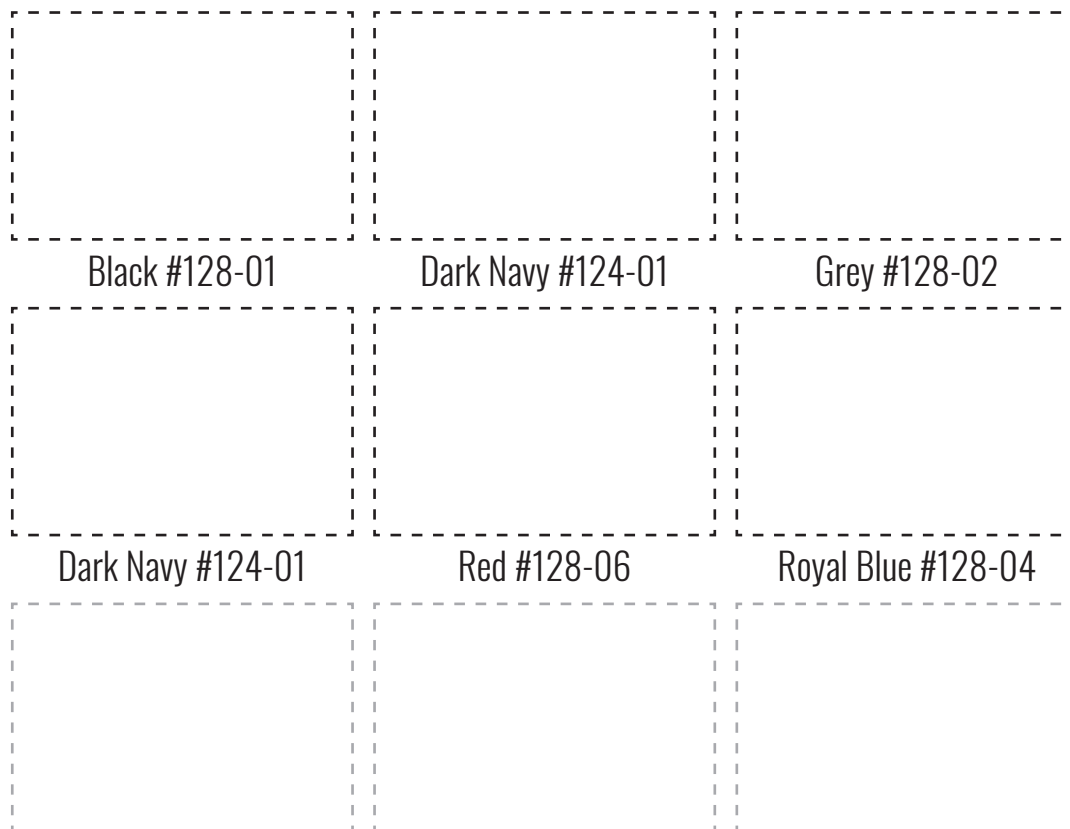
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
VOLCANO	87% Cotton, 12% Nylon, 1% Antistatic yarn	Carbon (Belltron)	260 gsm ±5%	Satin 4 / 1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes	Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2	
WARP	860 N	19 N	≤ 3%	28 000 rubs	3	
WEFT	670 N	33 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		3-4	4	2-3	2-3
STAIN ON COTTON		4	4-5	4	3-4
WET RUBBING	ISO 105 X12	3-4	3-4	2-3	2-3
DRY RUBBING	ISO 105 X12	4-5	4-5	3	3-4
LIGHT	ISO 105 B02	3	3-4	3-4	4

KEON-280

87% COTTON, 12% NYLON, 1% AS

280 GSM, TWILL 2/2

FLAME RETARDANT, ANTISTATIC,
OIL & WATER REPELLENT, BREATHABLE

COTTON/NYLON FABRIC | OIL & GAS

Clothes made of fabric are characterized by high strength and durability in use. Cotton ensures comfort in all conditions, perfectly absorbs sweat and is breathable. This fabric is resistant to tearing and tearing thanks to the addition of polyester. It provides protection against hot factors and metal splashes even after 50 washing cycles. Thanks to the acid-protective finish, it is resistant to accidental contact with specific chemicals but also with water and dirt. Antistatic properties obtained thanks to the construction with the use of antistatic fibers. A special production process ensures color fastness and dimensional stability after washing at 60C.

				
EN 11612	EN 11611	EN 61482-2	EN 13034	EN 1149-5
A1, A2, B1 C1, E, F1	Class 1	Class 1		EN 1149-3 method 2

OUR PARTNERS



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textile research institute

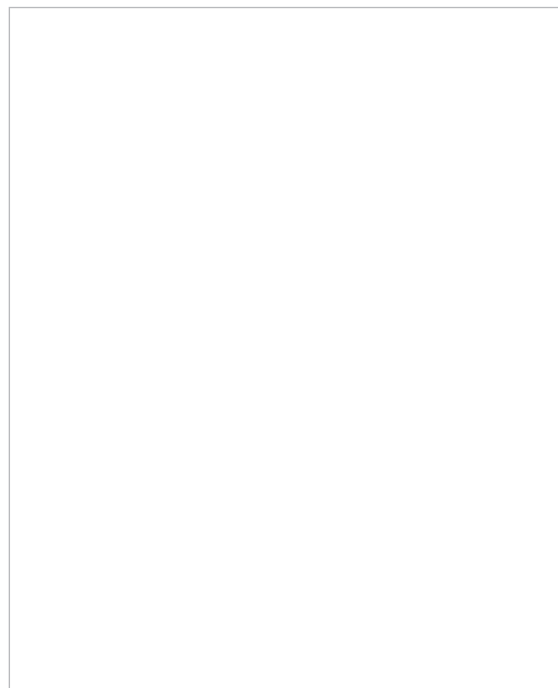


SCAN FOR
DETAILS



KEON-280

AVAILABLE COLOURS:*



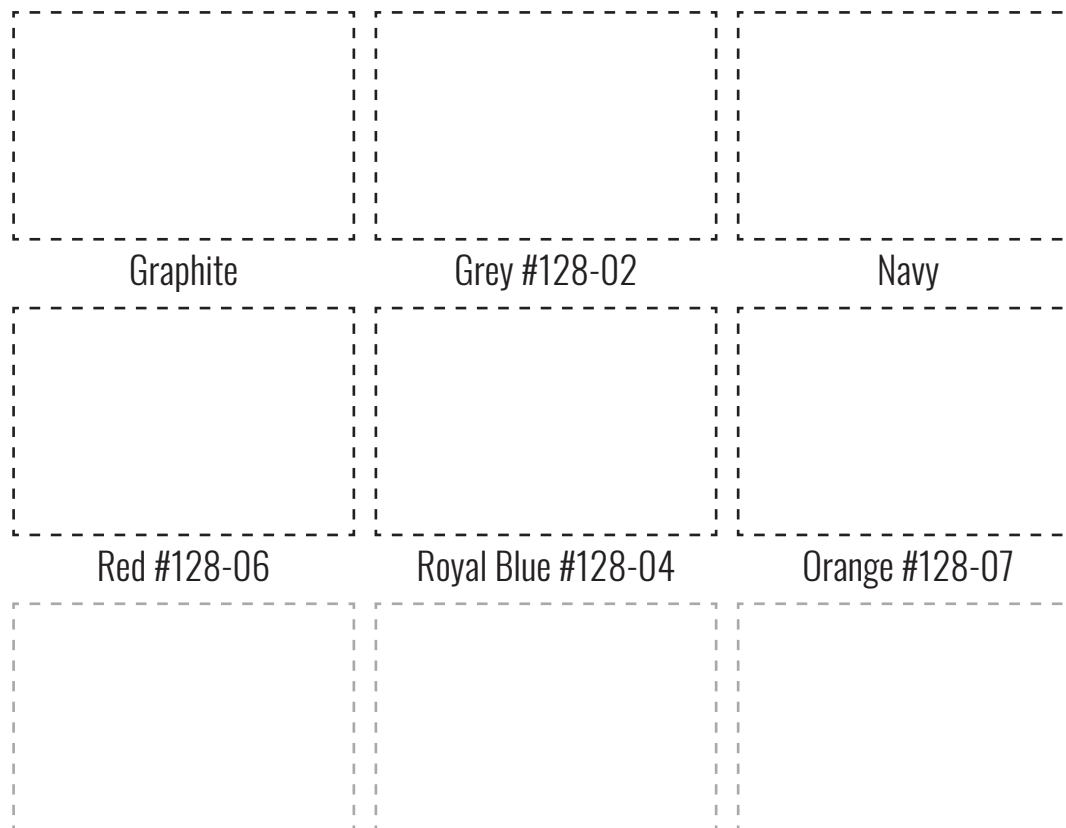
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
KEON-280	87% Cotton, 12% Nylon, 1% AS	Carbon (Belltron)	280 gsm ±5%	Twill 2/2	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	990 N	40 N	≤ 3%	10 000 rubs	—	
WEFT	609 N	34 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		3-4	4	2-3	2-3
STAIN ON COTTON		4	4-5	4	3-4
WET RUBBING	ISO 105 X12	3-4	3-4	2-3	2-3
DRY RUBBING	ISO 105 X12	4-5	4-5	3	3-4
LIGHT	ISO 105 B02	3	3-4	3-4	4

SPARK-170

100% COTTON

170 GSM, PLAIN 1/1



EN 11612

A1, B1,
C1, F1

FLAME RETARDANT,
BREATHABLE

COTTON FABRIC | MACHINE BUILDING

The fabric is light, airy and perfectly breathable. The special design and flame-retardant finish ensure the protective properties of the product. Clothes made of fabric are characterized by high strength and durability in use. Cotton ensures comfort in all conditions, perfectly absorbs sweat and is breathable. This fabric is resistant to mechanical damage. A special production process ensures color durability and dimensional stability.

OUR PARTNERS



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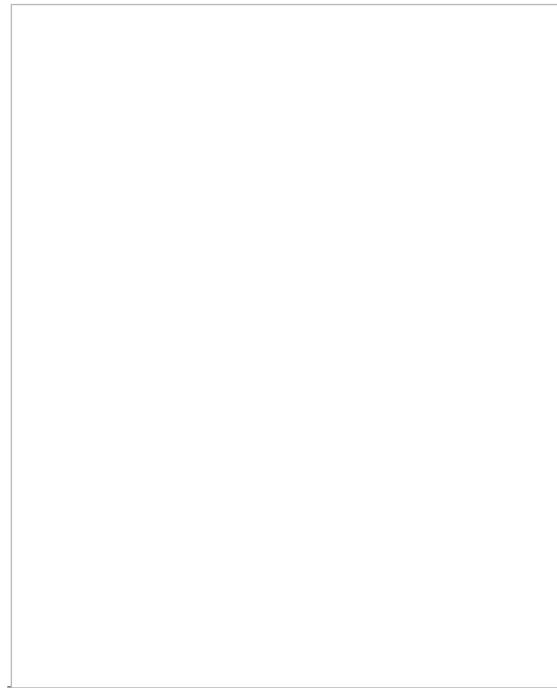


SCAN FOR
DETAILS



SPARK-170

AVAILABLE COLOURS:*

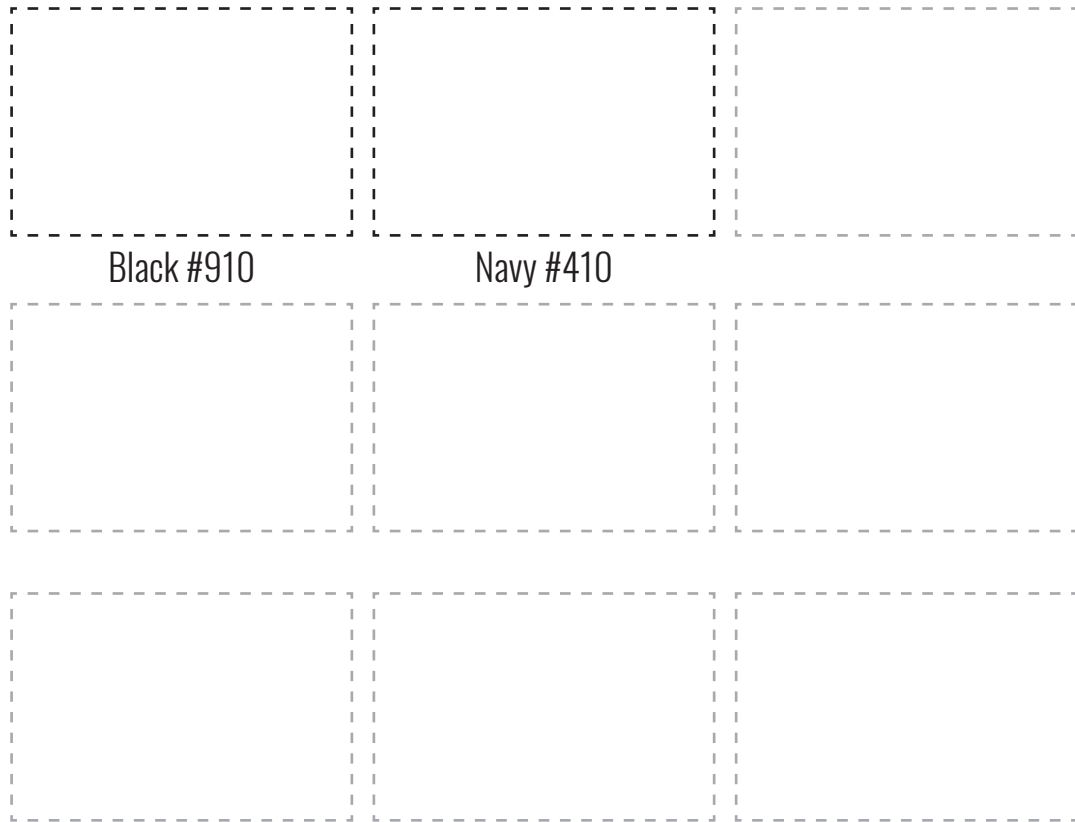


* Actual colours of fabric may vary.
This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry
place, with no
direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
SPARK-170	100% cotton	—	170 gsm ±5%	Plain 1 / 1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes	Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2	
WARP	543 N	16 N	≤ 3%	20 000 rubs	4-5	
WEFT	440 N	14 N	≤ 3%			

COLOUR FASTNESS		MID
		Green, Grey
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5
STAIN ON POLYESTER		4
STAIN ON COTTON		4-5
WET RUBBING	ISO 105 X12	3-4
DRY RUBBING	ISO 105 X12	4-5
LIGHT	ISO 105 B02	3-4

ARAVIS-120

50% META-ARAMID, 50% FR VISCOSE
120GSM, PLAIN 1/1



INHERENT

META-ARAMID FABRIC | FR-TURNOUT GEAR

Aravis FR-liner is designed for fire fighter firefighter's clothing with a new level of moisture management properties. It is light, thin and inherently flame resistant.

The purpose of thermal liner is to be used as a part of 4-layer sandwich for firefighter's turnout gear. Aravis-120 FR-liner provides comfort for the wearer as it thin and light (120 gsm). At the same time Aravis-120 transports perspiration away from skin. The blend of aramid and viscose fibers makes Aravis-120 very durable. It also gives high level of thermo protection, due to its inherent Flame Retardant properties.

OUR PARTNERS



SCAN FOR
DETAILS



ARAVIS-120

AVAILABLE COLOURS:*

Melange Grey

* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.

SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
ARAVIS-120	50% Meta-Aramid, 50% FR-Viscose	—	120 gsm ±5%	Plain 1/1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	420 N	20 N	≤ 3%		—	—
WEFT	400 N	20 N	≤ 3%			

COLOUR FASTNESS

		MELANGE GREY
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5
STAIN ON POLYESTER		4-5
STAIN ON COTTON		4
WET RUBBING	ISO 105 X12	4-5
DRY RUBBING	ISO 105 X12	4
LIGHT	ISO 105 B02	4

ARTEX-210

93% META-ARAMID, 5% PARA-ARAMID,
2% ANTISTATIC
210 GSM, TWILL 2/1

			
EN 11612	EN 1149-5	EN 13034 *	EN 61482-2
A1, A2, B1 C1, F1	EN 1149-3 method 2	* OPTIONAL	Class 1

INHERENT, ANTISTATIC

ARAMID FABRIC | INHERENT FR-CLOTHING

Artex-210 is an innovative inherent flame resistant fabric for protective and fr-clothing. This fabric is best used for emergency services (EMS clothing), for firefighters gear as well as for special forces, for marines uniform, for military pilots flight suits. Artex-210 is also suitable for FR bibs and FR overalls for workers in the oil and gas, chemical and power industries.

Artex-210 fabric provides protection against Fire, open Flame and Electric Arc. Inherent thermal protection cannot be washed away. The fabric is very durable and super resistant to abrasion.

Between other features of Artex-210 are light weight and good breathability, which gives extra comfort to the wearer. Due to integrated carbon antistatic yarn, Artex prevents building up electrostatic discharge (ESD) and eliminates the possibility of explosion in oil, gas and other industries.

OUR PARTNERS



SCAN FOR
DETAILS



ARTEX-210

AVAILABLE COLOURS:*

Dark Navy #X602

* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.

SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
ARTEX-210	93% M-Aramid, 5% P-Aramid, 2% antistatic	Carbon (Belltron)	210 gsm ±5%	Twill 2 /1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	1400 N	50 N	≤ 3%	—	—	—
WEFT	1500 N	49 N	≤ 3%	—	—	—

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4
STAIN ON POLYESTER		4-5	4-5	4-5	4
STAIN ON COTTON		4	4-5	4-5	3-4
WET RUBBING	ISO 105 X12	3	3	3	2-3
DRY RUBBING	ISO 105 X12	4	4	4	4
LIGHT	ISO 105 B02	3	3-4	4	4

FR-FLEECE-280

60% MODACRYLIC, 38% COTTON,
2% ANTISTATIC YARN,
280 GSM, KNITTED

INHERENT, ANTISTATIC

MODACRYLIC | WINTER FR-CLOTHING

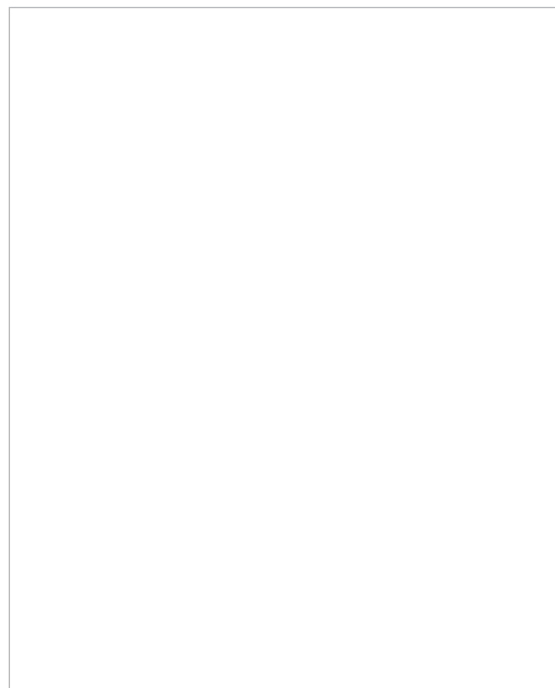
FR-Fleece is designed to use the softness and warmth of Fleece fabric with adding some extra features such as Heat and Flame Resistance. We use 60% Modacrylic fibers and 38% Cotton together with 2% Antistatic carbon fibers to get our 280gsm FR-Fleece. The part of Modacrylic fibers interwoven with Cotton provides to the whole fabric its flame resistance. FR-Fleece can be used as a middle layer or warmer for winter fr-clothing.

			
EN 11612	EN 1149-5	EN 20471	EN 61482-2
A1, B1, C1, F2	EN 1149-3 method 2		Class 1



FR-FLEECE-280

AVAILABLE COLOURS:*



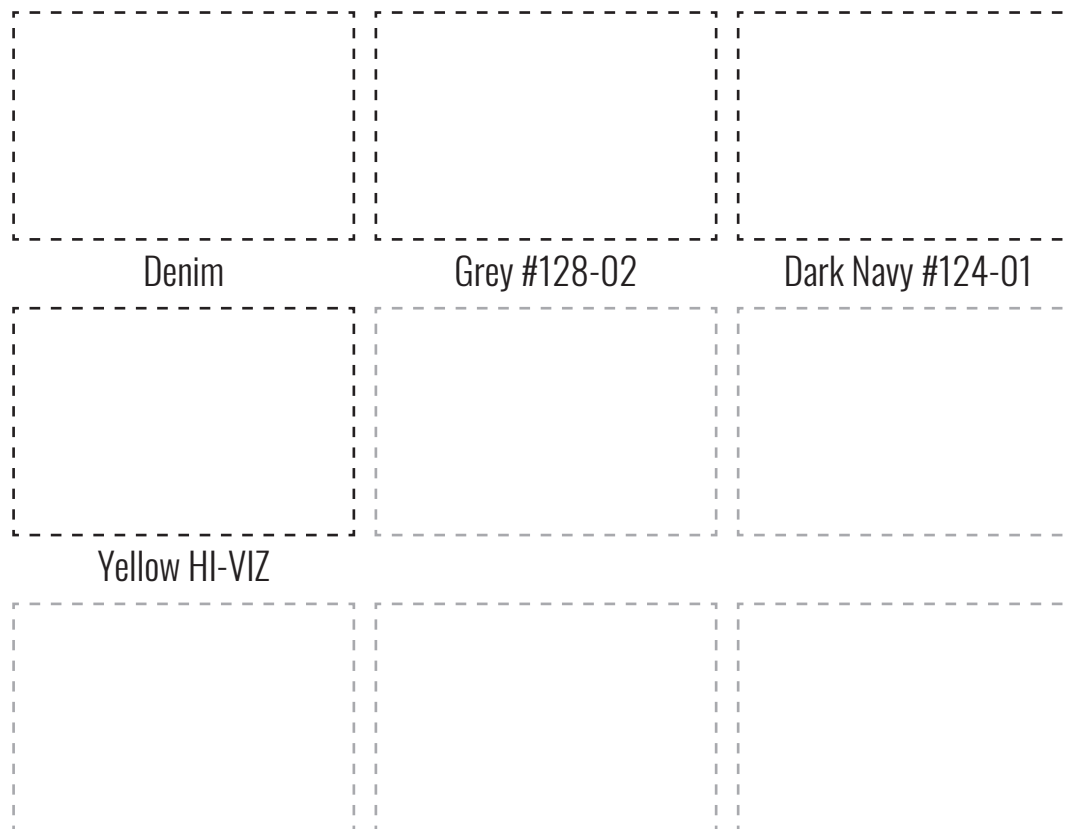
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
FR-FLEECE-280	60% Modacrylic, 38% Cotton, 2% Antistatic yarn	Carbon (Belltron)	280 gsm ±5%	Knitted	150 cm	Flame Retardant
	Bursting Resistance ISO 13938-1		Shrinkage ISO 5077 after 5 washes			
WARP	232 kPa		≤ 5%			
WEFT						

COLOUR FASTNESS		LIGHT	MID	DARK	
		HiVizYellow	Green, Grey	Dark Navy	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		3-4	4	2-3	2-3
STAIN ON COTTON		4	4-5	4	3-4
WET RUBBING	ISO 105 X12	3-4	3-4	2-3	2-3
DRY RUBBING	ISO 105 X12	4-5	4-5	3	3-4
LIGHT	ISO 105 B02	3	3-4	3-4	4

FR-JERSEY-200C

60% MODACRYLIC, 38% COTTON,
2% ANTISTATIC YARN,
200 GSM, KNITTED

50 x
WASH*



EN 11612
A1, A2, B1
C1, E3, F1



EN 1149-5
EN 1149-3
method 2



EN 61482-2
Class 1



EN 20471

INHERENT, ANTISTATIC

MODACRYLIC FABRIC | THERMAL CLOTHING

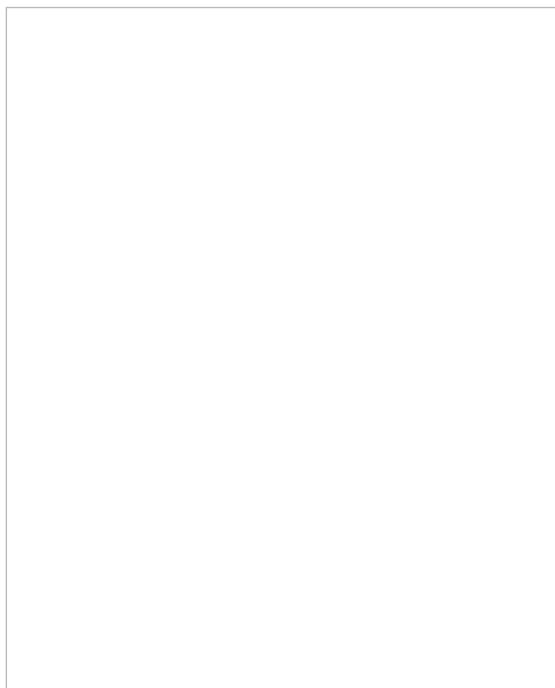
Flame retardant fabric FR-Jersey-200C 60% Modacrylic, 38% Cotton, 2% AS 200gsm is used for fr base layer (FR underwear). This FR knitted fabric with antistatic properties helps to save body warmth and increase flame retardant and thermal protection while wearing under fr-clothing (fr-jacket and fr-pants).

(*) Tested after 50 domestic washes at 40 °C



FR-JERSEY-200C

AVAILABLE COLOURS:*

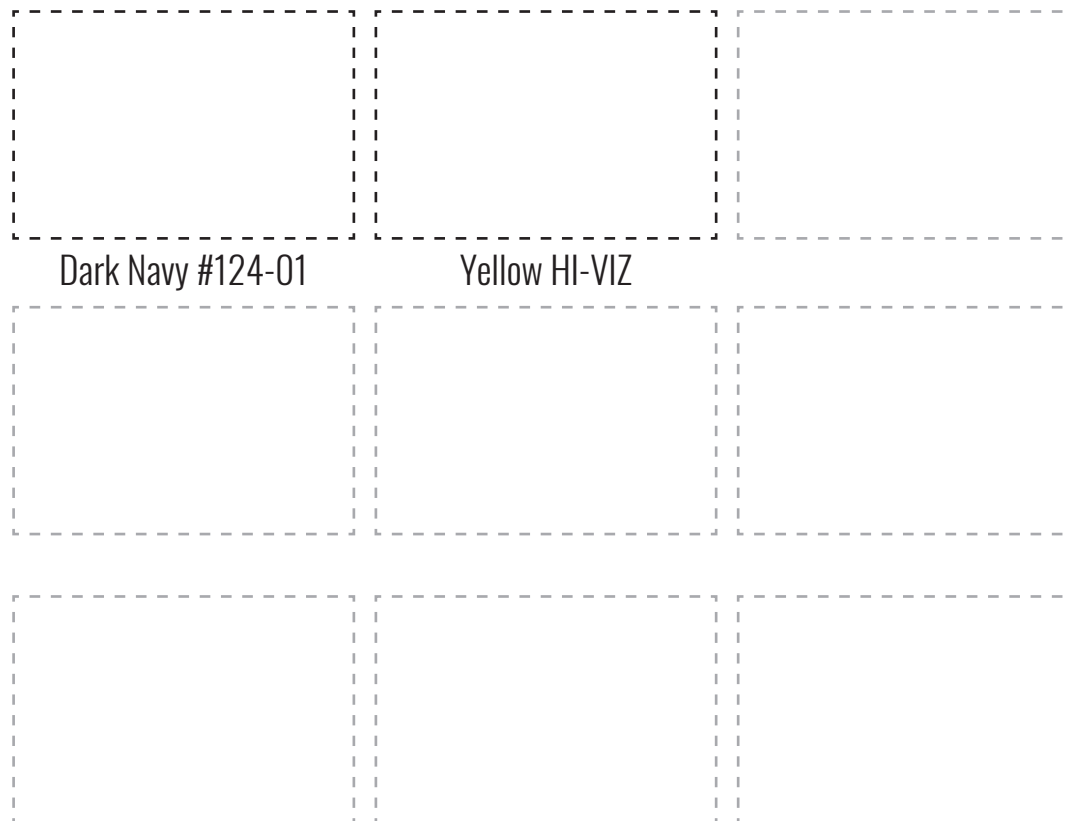


* Actual colours of fabric may vary.
This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry
place, with no
direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
FR-JERSEY-200C	60% Modacrylic, 38% Cotton, 2% Antistatic	Carbon (Belltron)	200 gsm ±5%	Knitted fabric	155 cm	Flame Retardant
	Bursting Resistance ISO 13938-1		Shrinkage ISO 5077 after 5 washes			
WARP	202 kPa		≤ 5%			
WEFT						

COLOUR FASTNESS		LIGHT	MID	DARK	
		HiViz Yellow	Green, Grey	Dark Navy	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		3-4	4	4-5	3
STAIN ON COTTON		4	4-5	4-5	3-4
WET RUBBING	ISO 105 X12	3-4	3-4	3	3
DRY RUBBING	ISO 105 X12	4-5	4-5	4-5	3-4
LIGHT	ISO 105 B02	3	3-4	4	4

FR-PIQUE-230

60% MODACRYLIC
38% COTTON, 2% AS
230 GSM, KNITTED

INHERENT, ANTISTATIC

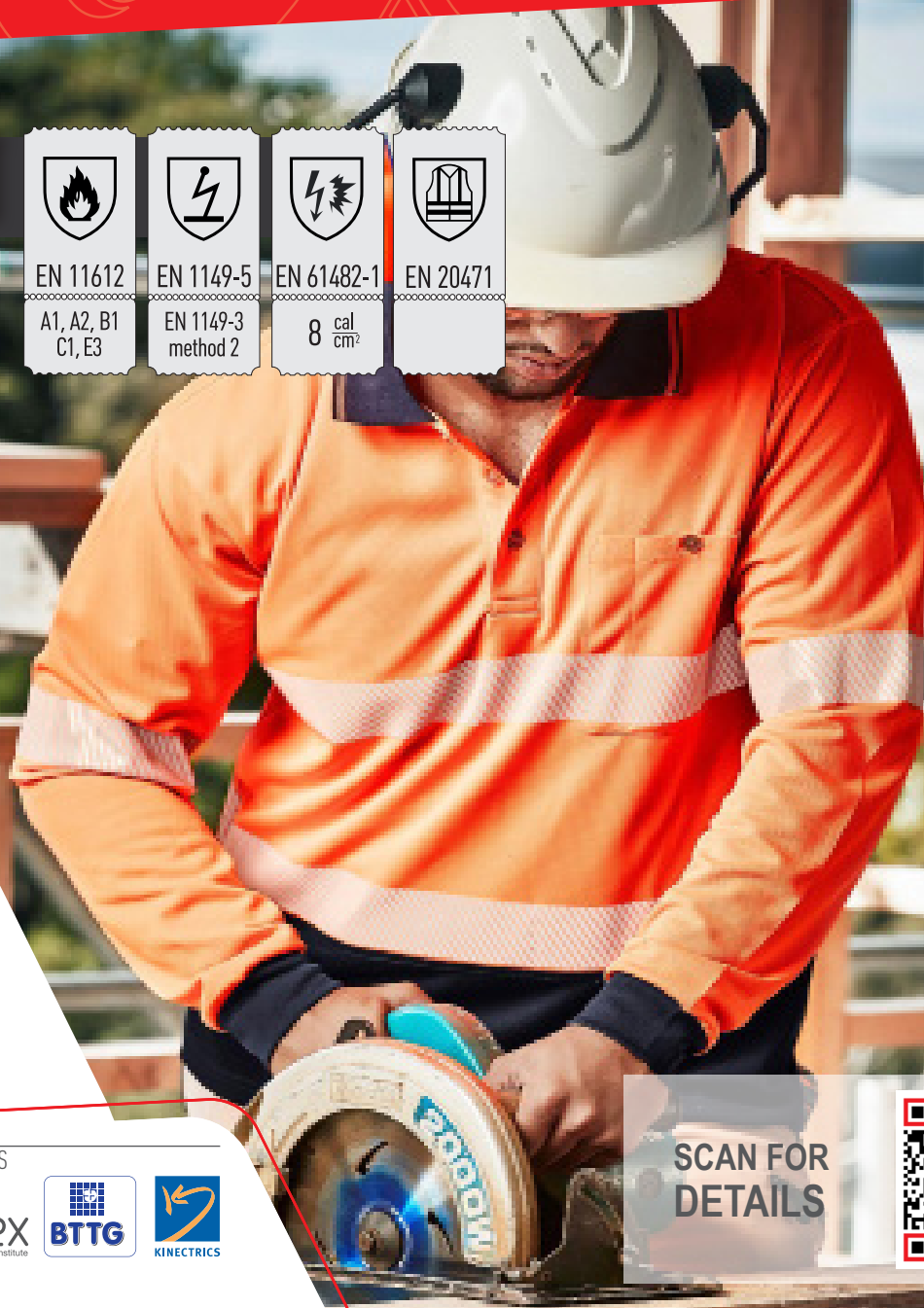
MODACRYLIC | MACHINE BUILDING

The high level of demand for pique fabric is explained by excellent flame-resistant, moisture-regulating, antistatic properties. Pique perfectly holds its shape and is practical. Advantages: good creasing resistance, an excellent degree of wear resistance, the fabric has hygroscopicity, good breathability, easy to care for. Additionally, FR-Pique protects against industrial hazards such as arc flashover and static electricity.

(*) Tested after 50 domestic washes at 40 °C

50 x
WASH*

			
EN 11612	EN 1149-5	EN 61482-1	EN 20471
A1, A2, B1 C1, E3	EN 1149-3 method 2	8 cal cm²	



SCAN FOR
DETAILS

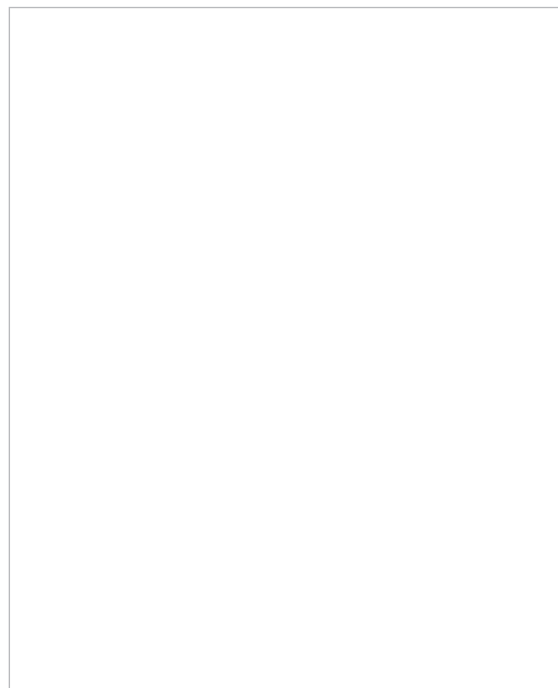


OUR PARTNERS



FR-PIQUE-230

AVAILABLE COLOURS:*



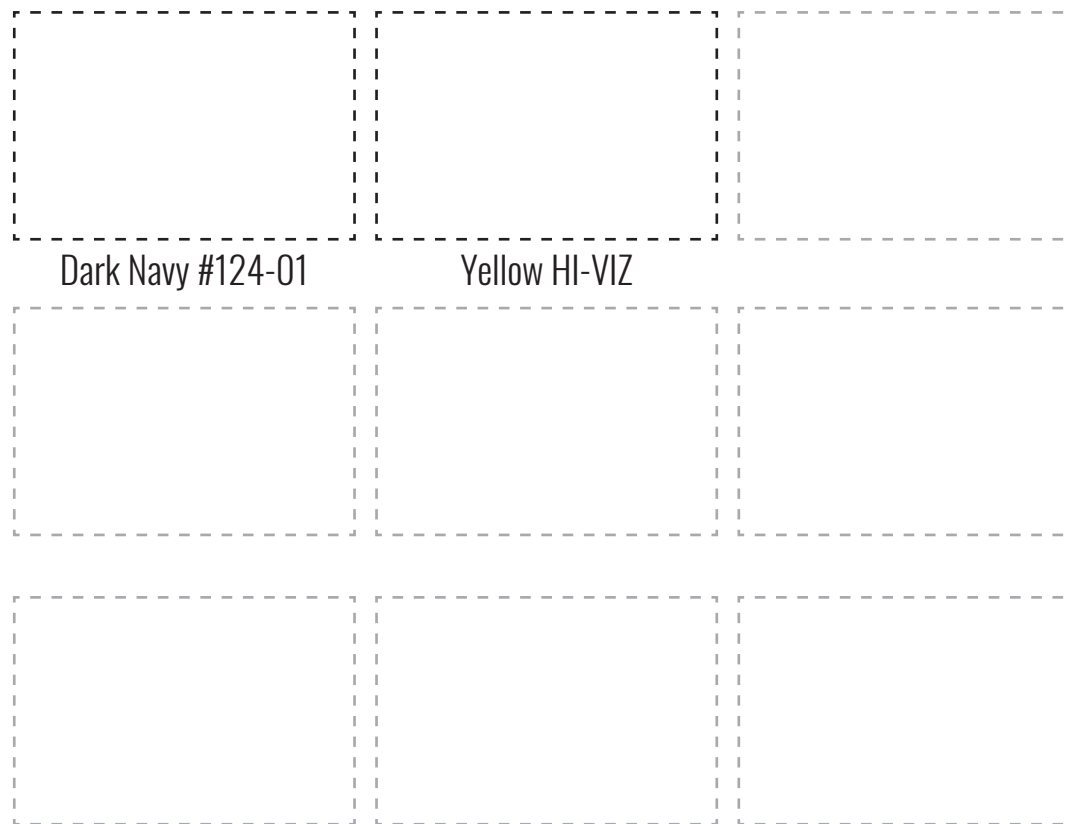
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
FR-PIQUE-230	60% Modacrylic, 38% Cotton, 2% Antistatic	Carbon (Belltron)	230 gsm $\pm 5\%$	Knitted Fabric	165 cm	Flame Retardant
	Bursting Resistance ISO 13938-1		Shrinkage ISO 5077 after 5 washes			
WARP	190 kPa		$\leq 5\%$			
WEFT						

COLOUR FASTNESS		LIGHT	MID	DARK	
		HiViz Yellow	Green, Grey	Dark Navy	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		3-4	4	2-3	4
STAIN ON COTTON		4	4-5	4	4
WET RUBBING	ISO 105 X12	3-4	3-4	2-3	2-3
DRY RUBBING	ISO 105 X12	4-5	4-5	3	4
LIGHT	ISO 105 B02	3	3-4	3-4	4

SIRENA-255

55% MODACRYLIC, 32% COTTON,
7% FR POLYAMIDE, 5% PARA-ARAMID, 1% AS
255 GSM, RIP-STOP

INHERENT, ANTISTATIC

MODACRYLIC | MACHINE BUILDING

SIRENA-255 is engineered specifically for hardworking professionals who deserve both protection and comfort throughout their demanding shifts. This premium 255 gsm rip-stop fabric combines 55% Modacryl, 32% Cotton, 7% FR Polyamide, 8% Para Aramid, and 1% Antistatic fibers to create uniforms that work as hard as you do.

(*) Tested after 50 industrial washes at 75 °C

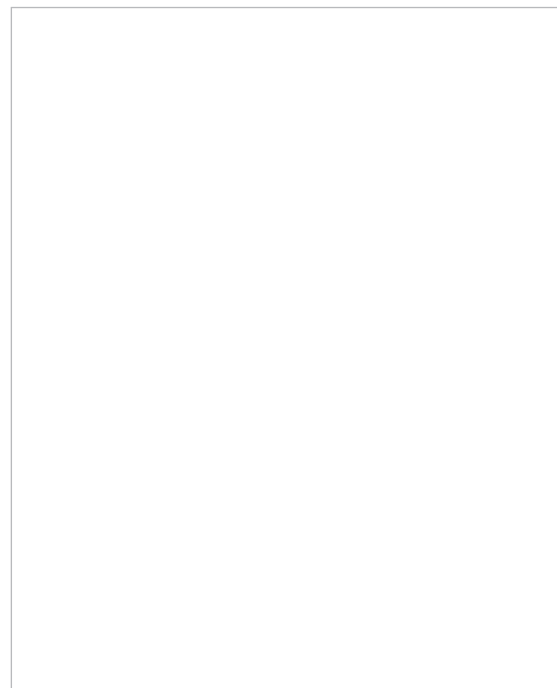


							
EN 11612	EN 11611	EN 1149-5	EN 13034*	EN 20471	EN 61482-1	EN 15384	EN 16689
A1, A2, B1 C1, E3, F1	Class 1	EN 1149-3 method 2			9,8 cal cm²		



SIRENA-255

AVAILABLE COLOURS:*



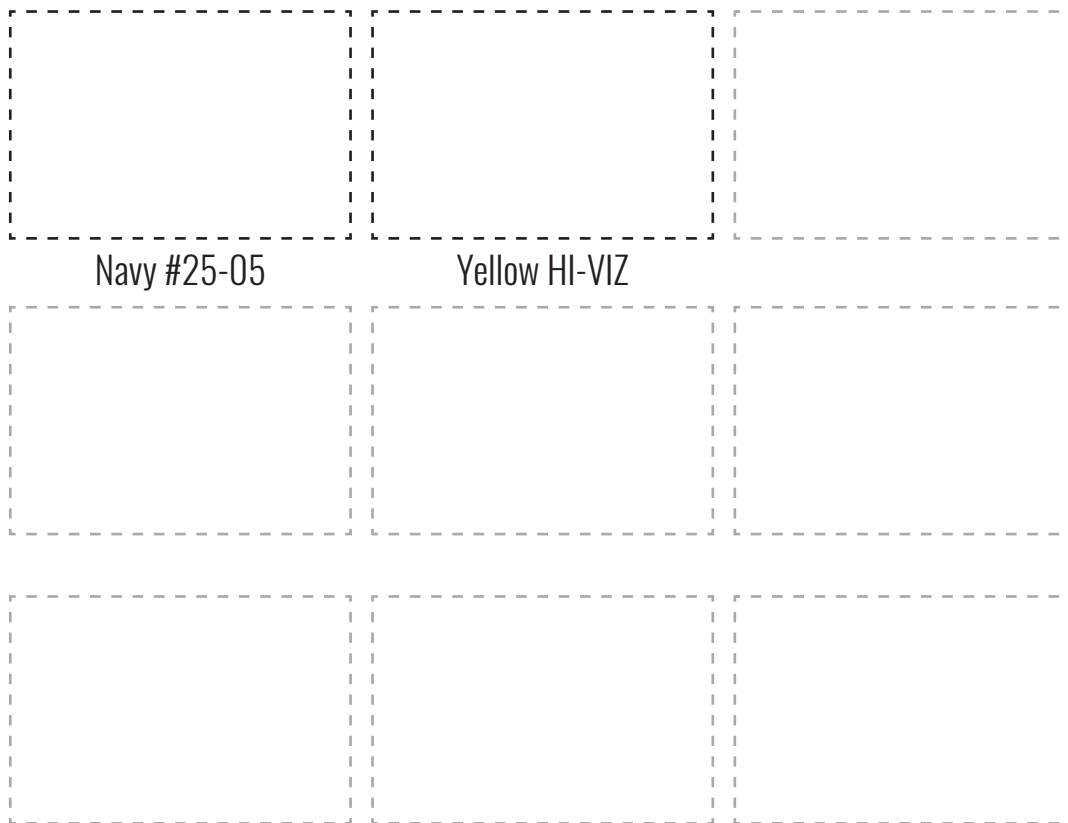
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
SIRENA-255	55% Modacrylic, 32% Cotton, 7% Fr Polyamide 5% Para-Aramid, 1% As	Carbon (Belltron)	255 gsm ±5%	Ripstop	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes	Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2	
WARP	920 N	31 N	≤ 3%	25 000	4-5	
WEFT	850 N	35 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 75°C ISO 105 C06	5	4-5	4-5	4
STAIN ON POLYESTER		4	4-5	4-5	4
STAIN ON COTTON		4	4-5	4-5	3-4
WET RUBBING	ISO 105 X12	3	3	3	2-3
DRY RUBBING	ISO 105 X12	4-5	4	4	4
LIGHT	ISO 105 B02	3	3-4	4	4

THOR-270

60% MODACRYLIC, 38% COTTON, 2% AS
270 GSM, TWILL 2/1

			
EN 11612	EN 11611	EN 1149-5	EN 20471
A1, A2, B1, C1, E1, F1	Class 1	EN 1149-3 method 2	

INHERENT, ANTISTATIC

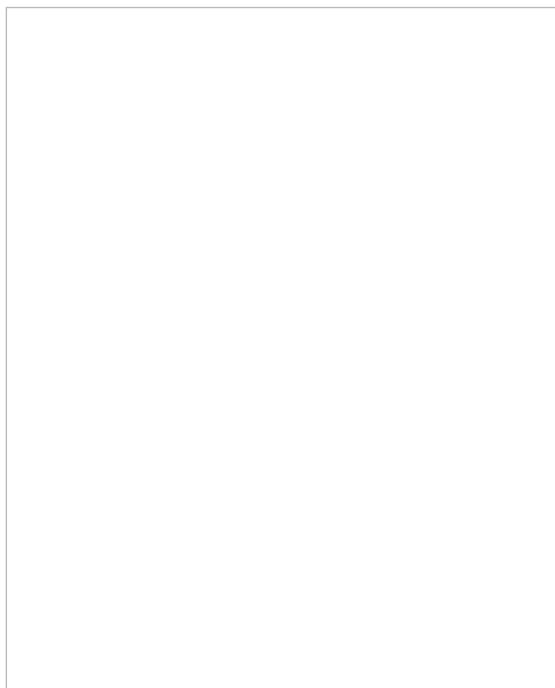
MODACRYLIC | MACHINE BUILDING

The fabric owes its flame retardant properties to the structure with the content of modacrylic fibers — it does not contain any chemical finishing. The antistatic properties were obtained thanks to the use of antistatic fibers. Clothes made of fabric are soft, extremely durable and durable in use. Cotton content ensures comfort in all conditions. The fabric is resistant to tearing and tearing. Provides protection against hot factors, metal splashes and accidental electric discharges. A special production process ensures color stability and dimensional stability after washing.



THOR-270

AVAILABLE COLOURS:*



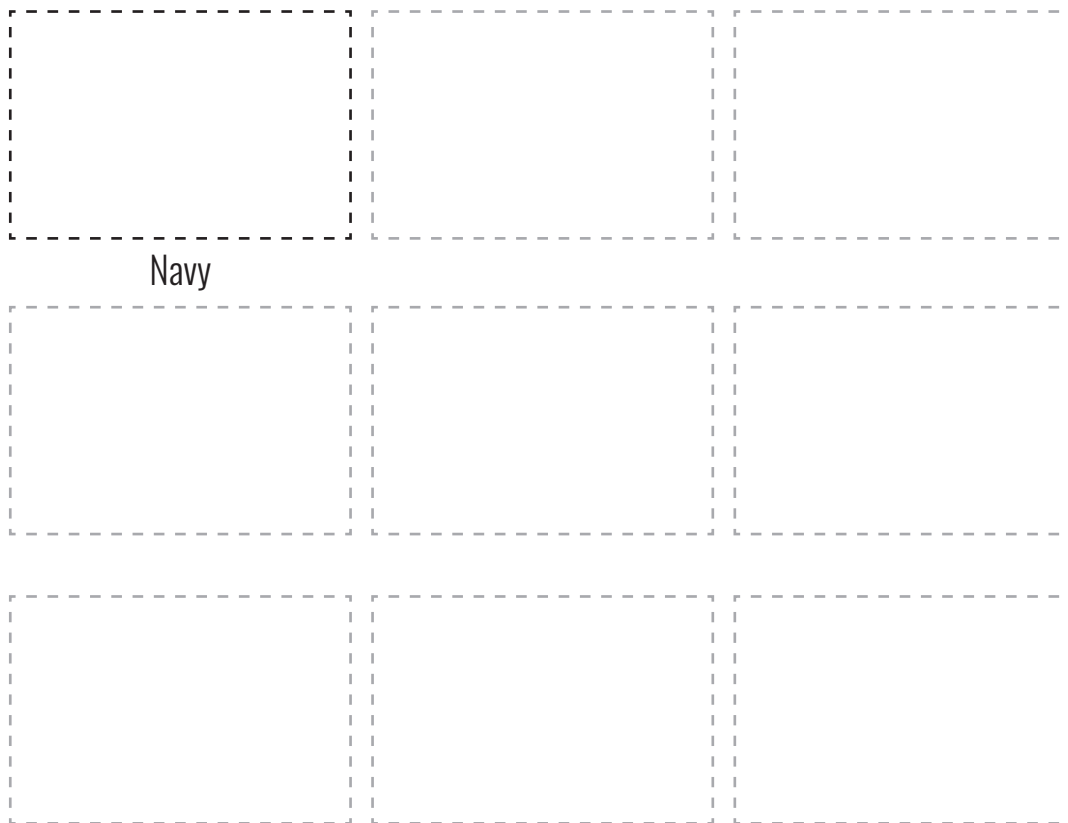
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
THOR-270	60% Modacrylic, 38% Cotton, 2% AS	Carbon (Belltron)	270 gsm $\pm$ 5%	Twill 2/1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes	Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2	
WARP	884 N	21 N	$\leq$ 3%	—	—	
WEFT	612 N	19 N	$\leq$ 3%			

COLOUR FASTNESS

		SPECIAL COLORS
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5
STAIN ON POLYESTER		4-5
STAIN ON COTTON		4
WET RUBBING	ISO 105 X12	4
DRY RUBBING	ISO 105 X12	5
LIGHT	ISO 105 B02	—

ITAKA-300

46% MODACRYLIC, 25% POLYESTER,
12% CELLULOSE, 8% ARAMID, 8% POLYAMIDE,
1% AS, 300 GSM, TWILL

INHERENT, ANTISTATIC,
MULTI-RISK, BREATHABLE

MODACRYLIC | MACHINE BUILDING

The ITAKA-300 fabric, crafted from an innovative blend of Modacrylic fibers, offers superior flame resistance, robustness, and longevity. Its moisture-resistant finish promotes comfort and maintains dryness in demanding work conditions. This fabric is the perfect solution for professionals seeking dependable protection and high visibility, without sacrificing flexibility and comfort. The integration of nylon and aramid fibers enhances the fabric's strength and resilience.

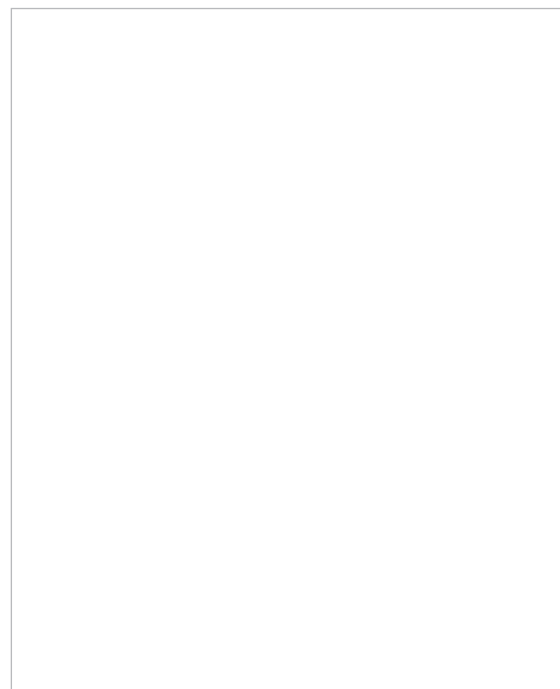
As the premier FR fabric in our collection, ITAKA-300 is now available in high-visibility Orange, a striking color that not only guarantees optimal visibility in perilous settings but also conforms to the rigorous safety standards of EN 20471.

					
EN 11611	EN 11612	EN 1149-5	EN 13034	EN 20471	EN 61482-2
Class 1	A1, A2, B1, C1, F1	EN 1149-3 method 2			Class 1



ITAKA-300

AVAILABLE COLOURS:*



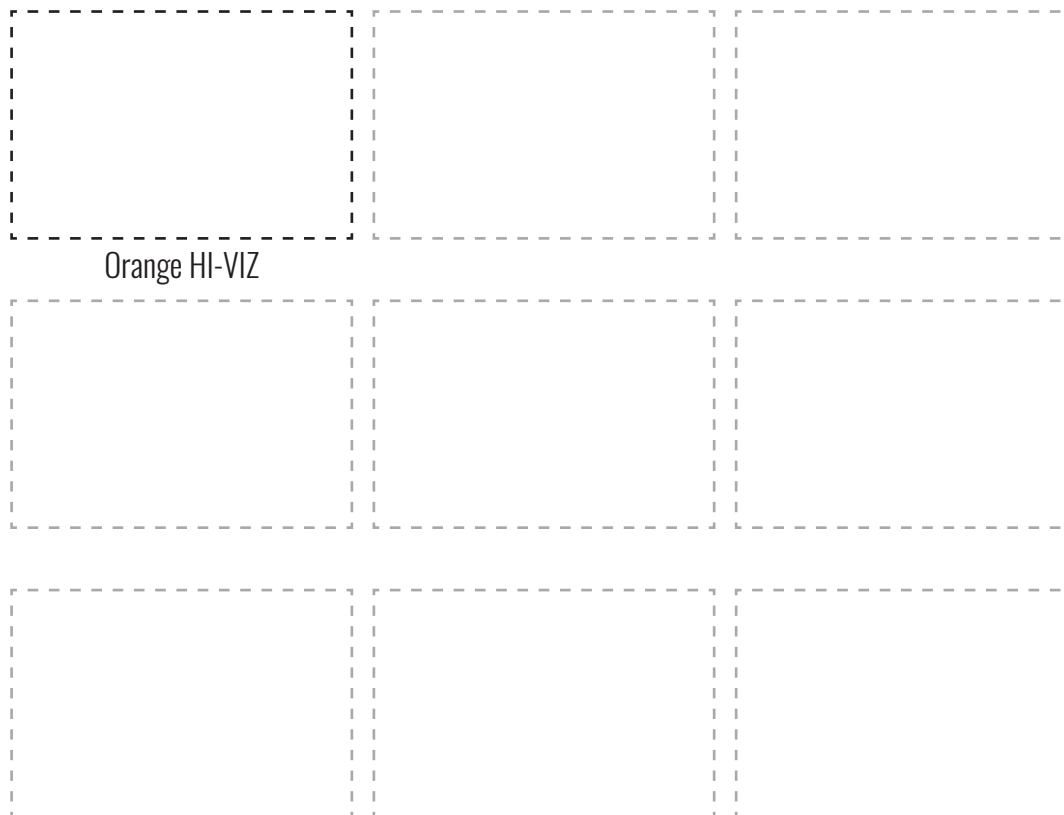
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
ITAKA-300	46% Modacryl, 25% Polyester, 12% Cellulose, 8% Aramid, 8% Polyamide, 1% AS	Carbon (Belltron)	300 gsm ± 5%	Satin 5/3	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	1300 N	100 N	≤ 3%		20 000 rubs	4-5
WEFT	1200 N	84 N	≤ 3%			

COLOUR FASTNESS

		SPECIAL COLORS
COLOUR CHANGE	WASHING 60°C ISO 105 C06	5
STAIN ON POLYESTER		4-5
STAIN ON COTTON		4-5
WET RUBBING	ISO 105 X12	4-5
DRY RUBBING	ISO 105 X12	4-5
LIGHT	ISO 105 B02	4



FLAME RETARDANT FABRIC FOR FR-CLOTHING

FR SOFTSHELL-310

50 X
WASH*

42% MODACRYLIC, 29% COTTON, 19% FR PA,
5% PARA-ARAMID, 4% EOL, 1% AS
310 GSM, TWILL 2/1

NEW

FLAME RETARDANT, ANTISTATIC

MODACRYLIC | POWER & UTILITIES

FR SOFTSHELL-310 delivers weather resistance, breathability, and permanent flame protection in one fabric — eliminating the need to layer non-FR outerwear over FR base garments.

Unlike standard softshell fabrics, the 42% modacrylic composition means FR protection that won't wash out. The 19% FR Polyamide adds weather resistance and durability, while P-Aramid reinforcement provides mechanical strength where it counts. The 4% elastomeric component allows natural movement during demanding outdoor work. High-visibility yellow ensures workers stay visible in low-light conditions and adverse weather.

					
EN 11611	EN 11612	EN 1149-5	EN 343	EN 20471	EN 61482-1
Class 1	A1, A2, B1 C1, E3, F2	EN 1149-3 method 2			23 cal/cm ²

(*) Tested EN 11611, EN 11612, EN 1149-5, EN 20471 after 50 domestic washes at 60°C

50 XM FireLine

OUR PARTNERS



SCAN FOR
DETAILS



FR SOFTSHELL-310

AVAILABLE COLOURS:*

Dark Navy #124-01

Yellow HI-VIZ

* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.

SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
FR SOFTSHELL-310	42% Modacrylic, 29% Cotton, 19% FR PA, 5% Para-Aramid, 4% EOL, 1% AS	Carbon (Belltron)	310 gsm ±5%	Twill 2/1	150 cm	Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes	Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2	
WARP	760 N	31 N	≤ 3%	25 000 rubs	4-5	
WEFT	470 N	35 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 75°C ISO 105 C06	5	-	5	-
STAIN ON POLYESTER		4-5	-	4-5	-
STAIN ON COTTON		4-5	-	4-5	-
WET RUBBING	ISO 105 X12	4-5	-	4-5	-
DRY RUBBING	ISO 105 X12	4-5	-	4-5	-
LIGHT	ISO 105 B02	3	-	3	-

FR-OXFORD-250

98% POLYESTER, 2% ANTISTATIC YARN,
250 GSM, PLAIN 1/1

FLAME RETARDANT, ANTISTATIC,
OIL & WATER REPELLENT, BREATHABLE

POLYESTER FABRIC | FR-RAINWEAR

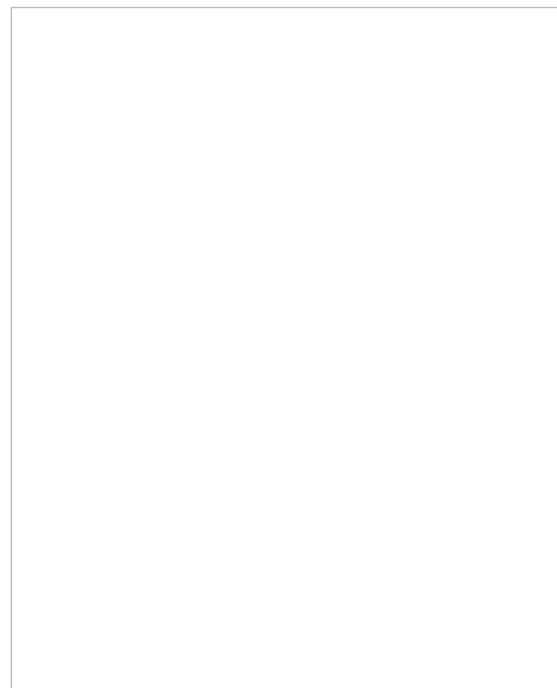
FR-Oxford is a water resistant outerwear fabric with flame retardant properties. Additionally it has antistatic, water, oil and stain resistant properties. Flame Retardant PU (Polyurethane) lamination provides superior rain protection and breathability. The fabric is designed for flame retardant winter workwear, rain jackets for jobs where multi-norm protection is needed. Besides regular colours FR-Oxford is available in Hi-Viz orange and yellow.

				
EN 14116	EN 1149-5	EN 343	EN 13034	EN 20471
Index 1	EN 1149-3 method 2	Class 3		



FR-OXFORD-250

AVAILABLE COLOURS:*



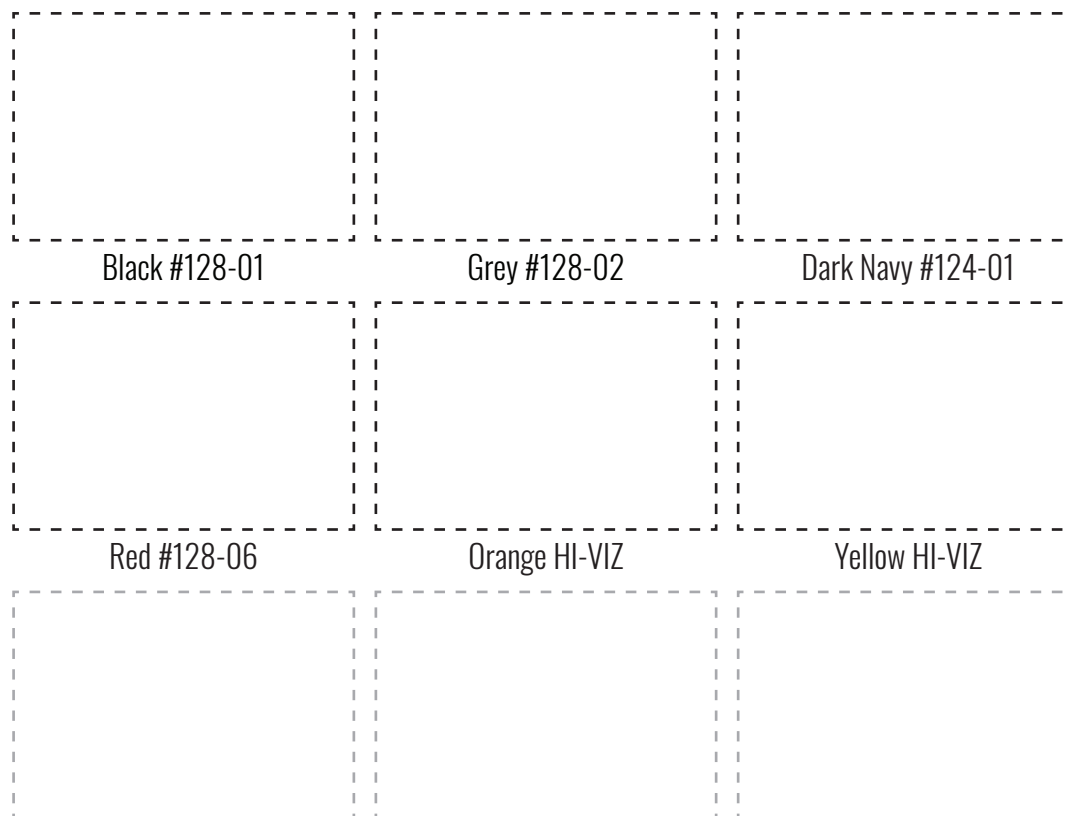
* Actual colours of fabric may vary.

This is due to the fact that colours on paper look different than colours on real fabric.

CARE INSTRUCTIONS:



Keep in cool dry place, with no direct sunlight.



SPECIFICATION

Article	Composition	Antistatic	Weight	Weave	Usable width	Finishes
FR-OXFORD-250	98% Polyester, 2% Antistatic yarn	Carbon (Belltron)	250 gsm ±5%	Plain 1 /1	150 cm	(PU) Flame Retardant
	Tensile str. ISO 13934-1	Tearing str. ISO 13937-2	Shrinkage ISO 5077 after 5 washes		Abrasion Resist. ISO 12947-2	Pilling Resist. ISO 12945-2
WARP	1300 N	100 N	≤ 3%		20 000 rubs	4-5
WEFT	1200 N	84 N	≤ 3%			

COLOUR FASTNESS		LIGHT	MID	DARK	
		Orange, Red, Yellow	Green, Grey	Dark Navy, Navy, Royal Blue	Black
COLOUR CHANGE	WASHING 60°C ISO 105 C06	4-5	4-5	4-5	4-5
STAIN ON POLYESTER		3-4	4	3-4	3-4
STAIN ON COTTON		4	4-5	4-5	4-5
WET RUBBING	ISO 105 X12	3-4	3-4	2-3	2-3
DRY RUBBING	ISO 105 X12	4-5	4-5	4	4
LIGHT	ISO 105 B02	3	3-4	4	4

XMF FABRIC SWATCH CARD



Black #910



Navy #410



HV Yellow



Royal blue



Red



Orange



Grey



Graphite



Black



Navy

OUR FR-FABRIC RANGE

XMF FABRIC SWATCH CARD



Black #128-01



Grey #128-02



Dark Navy #124-01



Royal Blue #128-04



Green #128-08



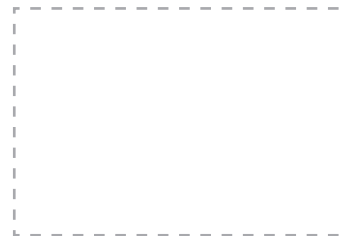
Red #128-06



Orange #128-07



Yellow HI-VIZ #128-08





Flame Retardant fabrics for FR-Clothing

