

FIRE RESISTANT POLAR



IDEAL FOR

- Workers from petrochemical and oil & gas industries, or Police and Military professionals who require protection from contact heat, flames, thermal hazards and other potentially explosive substances.
- Cold environments, thanks to its inner Fire Resistant polar fleece layer.

CERTIFICATIONS



EN ISO 11612/15



A1, B1, C1, X, X, F1

PROTECTION AGAINST HEAT AND FLAME				
EN ISO 11612:2015, Protective Clothing, Clothing to protect against heat and flame				
	Limited Flame Spread	Convective Heat	Radiant Heat	Contact Heat
Performance Levels	A1	B1	C1	F1

EN 1149-5/18



PROTECTION AGAINST STATIC ELECTRICITY	
EN 1149-5:2018, Protective clothing - Electrostatic properties	
Performance Levels	Pass

KEY FEATURES



FIRE RESISTANT



ANTISTATIC



POLAR FLEECE



MOISTURE MANAGEMENT



MULTIFUNCTIONAL

DIMENSIONS



FABRICS COMPOSITION

58% M-Aramid Nomex®.
 19% Lenzing FR.
 8% M-Aramid Kevlar®.
 6% Polyester.
 3% Antistatic Fiber.
 3% Elastane.
 3% P-Aramid Kevlar®.

<DUPONT>

Nomex

PACKAGING



WASHING MAINTENANCE SYMBOLS



FIRE RESISTANT POLAR

Mass per unit area: 220 g/m² ± 5 %
 EN 12127:1997

Air Permeability: 1164 mm/s ± 10 %
 EN ISO 9237:1995

Thermal Resistance (RCT): 0,085 m²K/W ± 10 %
 UNE EN 31092:1996

Water Vapour Resistance (RET): 8,38 m²Pa/W ± 10 %
 EN ISO 11092:1993

Determination of breaking Strength and elongation:

EN ISO 13934-1:2013

AVERAGE LOAD		AVERAGE ELONGATION	
LENGTHWISE	120 N± 10 %	LENGTHWISE	80 N± 10 %
CROSSWISE	78 N± 10 %	CROSSWISE	144 N± 10 %

Determination of dimensional change in domestic washing and drying:

EN ISO 5077:2008

LENGTHWISE < ±3%

CROSSWISE < ±3%

Washing procedure 4N (Ta=40 ±3°C) according to ISO 6330:2012

Resistance to pilling:

ISO 12945-2:2000

2 - 3

2000 CYCLES

Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".

Determination of the abrasion resistance of fabrics:

EN ISO 12947-2:2016

Testing pressure: 9 kPa

>42500 CYCLES

Until the first yarn broken

Fastness rates:

Colour fastness to domestic and commercial laundering:

EN ISO 105-C06:2010

4 - 5 *

Colour fastness to perspiration (Alkaline & Acid):

EN ISO 105-E04:2013

ALKALINE

4 - 5 *

ACID

4 - 5 *

Colour fastness to rubbing (Dry & Wet):

EN ISO 105-X12:2002

DRY

4 - 5 *

WET

4 *

Colour fastness to sea water:

EN ISO 105-E02:1996

4 - 5 *

Colour fastness to artificial light:

EN ISO 105-B02:2001 Método 2

3 - 4**

* Fastness rates in a scale from 1 to 5 in which 1 is "Poor behaviour" and 5 is "Good behaviour".

** Fastness to artificial light rates in a scale from 1 to 8 in which 1 is "Very poor" and 8 is "Excellent"

FIRE RESISTANT

Mass per unit area: 245 g/m² ± 5 %
 EN 12127:1997

Air Permeability 130,66 mm/s ± 10 %
 EN ISO 9237:1995

Thermal Resistance (RCT): 0,0335 m²K/W ± 10 %
 EN ISO 11092:2014

Water Vapour Resistance (RET): 3,83 m²Pa/W ± 10 %
 EN ISO 11092:2014

Bursting resistance (after 5 washes): 233,18 kPa ± 10 %
 EN ISO 13938-1:2019

Determination of dimensional change in domestic washing and drying:
 EN ISO 5077:2008 LENGTHWISE < -10% CROSSWISE < ±3%
 Washing procedure 4N (Ta=40 ±3°C) according to ISO 6330:2012

Resistance to pilling: 4 2000 CYCLES
 ISO 12945-2:2000
 Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".

Determination of the abrasion resistance of fabrics: >100000 CYCLES
 EN ISO 12947-2:2016 Testing pressure: 9 kPa Until the first yarn broken

Fastness rates:

Colour fastness to domestic and commercial laundering:
 EN ISO 105-C06:2010 4 - 5 *

Colour fastness to perspiration (Alkaline & Acid): EN ISO 105-E04:2013	ALKALINE	4 - 5 *
	ACID	4 - 5 *

Colour fastness to rubbing (Dry & Wet): EN ISO 105-X12:2016	DRY	4 - 5 *
	WET	4 - 5 *

Colour fastness to sea water:
 EN ISO 105-E02:2013 4 - 5 *

Colour fastness to artificial light:
 EN ISO 105-B02:2014 Método 2 4 - 5 **

* Fastness rates in a scale from 1 to 5 in which 1 is "Poor behaviour" and 5 is "Good behaviour".

** Fastness to artificial light rates in a scale from 1 to 8 in which 1 is "Very poor" and 8 is "Excellent"