

DATA SHEET: FIRE RESISTANT POLAR BUFF®

GENERAL DESCRIPTION

- Multifunctional tubular fabric composed by a tube of DuPont™ Nomex® and a meta-aramid polar fleece on the inside.
- Ideal product for all the workers undertaking activities in cold weather who require protection from heat, flames and thermal hazards.
- Suitable for chemical and petrochemical industries, or for examples police officers and military personnel.
- Maintains body temperature in cold weather.
- Product resistant to fire and antistatic, certified as Personal Protective Equipment under the standards EN ISO 13688/13, EN ISO 11612/15 and EN1149-5/08.

CERTIFICATIONS

Test Standards:	
Heat Resistance:	
According to EN ISO 11612/15	Pass
Limited Flame Spread:	
According to EN ISO 11612/15	A1
Convective heat:	
According to EN ISO 11612/15	B2
Radiant heat:	
According to EN ISO 11612/15	C2
Contact heat:	
According to EN ISO 11612/15	F2
Antistatic:	
According to EN 1149-5/08	Pass

CE CAT II
EN ISO 13688/13

EN 1149-5/08



EN ISO 11612/15



A1, B2, C2, F2, X, X

KEY FEATURES



MOISTURE
MANAGEMENT



DRIES
QUICKLY



POLAR
FR



MULTIFUNCTIONAL

DIMENSIONS

24 cm



51 cm

21 cm

DuPont™
Nomex®

DuPont™ and Nomex® are Trademarks or registered Trademarks of E.I. du Pont de Nemours and Company used under license to Original Buff S.A.

POLAR FLEECE

FABRIC COMPOSITION

Material:

M-ARAMID NOMEX®	58%
LENZING FR	19%
M-ARAMID	8%
P-ARAMID KEVLAR®	3%
POLYESTER	6%
ANTISTATIC FIBER	3%
ELASTANE	3%

Structure:

Single jersey
Polar fleece

PACKAGING



Properties: **DuPont™
Nomex®**

Mass per unit area:
UNE-EN 12127:1998 227 g/m² ±5%

Air permeability:
UNE-EN ISO 9237:1996 127,20 mm/s ±10%

Thermal Resistance (RCT):
ISO 11092: 2014 0,0266 m²K/W ±10%

Water Vapour Resistance (RET):
ISO 11092: 2014 4,18 m²Pa/W ±10%

Bursting strength:
ISO 13938-1:2000 204 kPa ±10%

Determination of breaking Strength and elongation:
UNE-EN ISO 13934-1:2013

Average Load (N)	Average Elongation (%)
Lengthwise 280 ±10%	Lengthwise 174 ±10%
Crosswise 260 ±10%	Crosswise 281 ±10%

Determination of dimensional change in domestic washing and drying:
UNE-EN ISO 5077:2008 + ERRATUM:2008

Washing procedure 3M (Ta=40 ±3°C) according to ISO 6330:2012
Lengthwise ≤ 7% Crosswise ≤ 3%

Resistance to pilling (martindale, 2000 cycles):
UNE-EN ISO12945-2:2001 4
Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".

Determination of the abrasion resistance of fabrics:

UNE-EN ISO 12947-2:1999/AC:2006
Testing pressure: 9kPa >100000 cycles
Until the first yarn broken

Fastness rates:

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

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

Colour fastness to rubbing (Dry & Wet)
UNE-EN ISO 105-X12:2003 4-5

Colour fastness to sea water
UNE-EN ISO 105-E02:1996 4-5

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

Colour fastness to artificial light
UNE-EN ISO 105-B02:2013 method 2 5-6

(Fastness to artificial light rates in a scale from 1 to 8 in which 1 is "Very poor" and 8 is "Excelent".)

Properties: **POLAR FLEECE**

Mass per unit area:
UNE-EN 12127:1998 220 g/m² ±5%

Air permeability:
UNE-EN ISO 9237:1996 1163,82 mm/s ±10%

Thermal Resistance (RCT):
UNE-EN 31092:1996/A1:2013 0,0850 m²K/W ±10%

Water Vapour Resistance (RET):
UNE-EN 31092:1996/A1:2013 8,38 m²Pa/W ±10%

Determination of breaking Strength and elongation:
UNE-EN ISO 13934-1:2013

Average Load (N)		Average Elongation (%)
Lengthwise 120 ±10%		Lengthwise 80 ±10%
Crosswise 78 ±10%		Crosswise 144 ±10%

Determination of dimensional change in domestic washing and drying:
UNE-EN ISO 5077:2008 + ERRATUM:2008

Washing procedure 3M (Ta=40 ±3°C) according to ISO 6330:2012
Lengthwise ±5% Crosswise ±5%

Resistance to pilling (martindale, 2000 cycles):
UNE-EN ISO12945-2:2001 3
Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".

Determination of the abrasion resistance of fabrics:
UNE-EN ISO 12947-2:1999/AC:2006
Testing pressure: 9kPa

min. 42.500 cycles
Until the first yarn broken

Fastness rates:

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

Colour fastness to perspiration (Alkaline & Acid):
UNE-EN ISO 105-E04:2013 5

Colour fastness to rubbing (Dry & Wet)
UNE-EN ISO 105-X12:2003 4-5

Colour fastness to sea water
UNE-EN ISO 105-E02:1996 5

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

Colour fastness to artificial light
UNE-EN ISO 105-B02:2013 method 2 3-4

(Fastness to artificial light rates in a scale from 1 to 8 in which 1 is "Very poor" and 8 is "Excelent".)