

WINDPROOF



IDEAL FOR

- Workers who perform outdoor activities in cool and windy environments.
- Helps maintaining body temperature in cool environments.
- Some designs incorporate two 3M Scotchlite™ retro-reflective stripes.
- Combines recycled microfiber with Pertex® membrane.

CERTIFICATIONS



COOL ENVIRONMENTS
*ONLY APPLIES TO WINDPROOF FABRIC



COOL ENVIRONMENTS
APPLIES TO THE REST OF FABRICS



WIND ENVIRONMENTS
*ONLY APPLIES TO WINDPROOF FABRIC



VISIBILITY
ONLY APPLIES TO FLUOR DESIGNS AND/OR WITH REFLECTIVE ELEMENTS

Cold protection in cool environments.

An accessory specifically designed to provide protection against minor risks caused by cold in cool environments. This information can be found in PPE manuals and data sheets. The specifications refer to possible combinations of humidity and wind at temperatures between 5 °C and 10 °C. The windproof fabric offers a higher level of protection than the other fabrics used in this garment. This increased capacity is indicated by the “+” symbol on the pictogram.

Test standards on the fabric and performance values:			
Property	Standard	Windproof part of the fabric	Rest of the fabric
Thermal Resistance/Insulation (Rct)	EN ISO 11092:2014	Results between 0.04 - 0.05 m²K/W	Results between 0.01 - 0.02 m²K/W
Air permeability (AP)	EN ISO 9237:1995	Class 3*	Class 1*

*Class 3 and 1 according to the classification requirements of EN 14058:2017:

Class	Air permeability (mm/s)
1	AP > 100
2	5 < AP ≤ 100
3	AP ≤ 5

PROTECTIVE PROPERTIES AGAINST MINIMAL RISKS DUE TO LOW VISIBILITY.

This garment alone does not protect against this risk, as it does not reach a minimum surface for the user to be seen, but it helps increase visibility as long as the user also wears suitable protective clothing against this risk.

KEY FEATURES



DIMENSIONS



FABRICS COMPOSITION

Knitted Fabric:
95% Recycled Polyester,
5% Elastane.

Pertex® Fabric:
100% Recycled Polyester.

PERTEX:
AEROS

PERTEX® AEROS
WINDPROOF
TECHNOLOGY

PACKAGING



WASHING MAINTENANCE SYMBOLS



Mass per unit area: EN 12127:1997	285 g/m ²	± 5 %
Air Permeability EN ISO 9237:1995	3 mm/s	± 10 %
Thermal Resistance (RCT): EN ISO 11092:2014	0,05 m ² K/W	± 10 %
Water Vapour Resistance (RET): EN ISO 11092:2014	6,3 m ² Pa/W	± 10 %
Bursting resistance: EN ISO 13938-1:2019	460 kPa	± 10 %
Determination of dimensional change in domestic washing and drying:		
EN ISO 5077:2008	LENGTHWISE < ±2%	CROSSWISE < ±2%
	Washing procedure 4N (Ta=40 ±3°C) according to ISO 6330:2012	
Resistance to pilling: ISO 12945-2:2000	5	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	>50000 CYCLES Until the first yarn broken
Fastness rates:		
Colour fastness to domestic and commercial laundering: EN ISO 105-C06:2010		4 *
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	3 - 4 *
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 "Excelent"		

Mass per unit area: 170 g/m² ± 7 %
EN 12127:1997

Air permeability: 250 mm/s ± 10 %
EN ISO 9237:1995

Thermal Resistance (RCT): 0,014 m²K/W ± 10 %
EN ISO 11092:2014

Water Vapour Resistance (RET): 2,55 m²Pa/W ± 10 %
EN ISO 11092:2014

Determination of breaking Strength and elongation:

EN ISO 13934-1:2013

AVERAGE LOAD		AVERAGE ELONGATION	
LENGTHWISE	240 N ± 10 %	LENGTHWISE	160% ± 10 %
CROSSWISE	160 N ± 10 %	CROSSWISE	227% ± 10 %

Bursting resistance (after 5 washes): 122 kPa ± 10 %
EN ISO 13938-1:1999

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: 2 2000 CYCLES
ISO 12945-2:2001

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

>70.000 CICLOS

Until the first yarn broken

Fastness rates:

Colour fastness to domestic and commercial laundering:

EN ISO 105-C06:2010

4 *

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 Method 2

6**

* 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"

Enhanced Visibility

CIE 15

YELLOW FLUOR

CHROMACITY
COORDINATES

x = 0,3853

y = 0,5411

LUMINANCE
FACTOR

β = 0,7597

ORANGE FLUOR

x = 0,5901

y = 0,3647

β = 0,2939

Ultraviolet Protection:

AS/NZS 4399:2017

50+

Excellent protection

Retroreflective material (only applies to Scotchlite® retroreflective strap):

CIE 54.2

COMPLIES

Tests used to determine **PROTECTIVE PROPERTIES AGAINST MINIMAL RISKS DUE TO LOW VISIBILITY** (only for Fluor and/or Reflective materials)