CUT RESISTANT

IDEAL FOR

· Police, military personnel, private security or even different industrial workers requiring cut protection from sharp objects on the neck area.
· In the lower part combines recycled polyester (inner and outer layers) with cut resistant Dyneema® fabric (intermediate layer).
· Four-way ultra stretch fabric for greater comfort.

CERTIFICATIONS

CE CAT II
EN ISO 13688/13

The Dyneema® layer of fabric was tested according with standard EN ISO 13997:1999, Determination of resistance to cutting by sharp objects.

Test standards:	
Protection against mechanical risk (Cutting) According to EN ISO 13997:1999	LEVEL D

KEY FEATURES

4-WAY ULTRA STRETCH
60% RECYCLED POLYESTER
MOISTURE MANAGEMENT
CUT RESISTANT

DIMENSIONS

FABRICS COMPOSITION

60% Recycled Polyester.
16% Dyneema®.
11% Glass + PTFE Coating.
8% Polyamide.
5% Elastane.

Dyneema®

PACKAGING

WASHING MAINTENANCE SYMBOLS

FABRIC TEST:

SAFETY

CUT RESISTANT (INSIDE LAYER)

Mass per unit area: EN 12127:1997	385 g/m^2	± 5 %
Air Permeability EN ISO 9237:1995	102 mm/s	± 10 %
Thermal Resistance (RCT): EN ISO 11092:2014	0,0297 m^{2}K/W	± 10 %
Water Vapour Resistance (RET): EN ISO 11092:2014	6,08 m^{2}Pa/W	± 10 %
Bursting resistance: EN ISO 13938-1:1999	544 kPa	± 10 %

Determination of dimensional change in domestic washing and drying:

EN ISO 5077:2008 — LENGTHWISE < ±3% — CROSSWISE < ±3%

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

Resistance to pilling: EN ISO 12945-2:2000	4	7000 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 12947-2:1999 Testing pressure: 9 kPa	>100000 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-X12:2016	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	7**	

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

** Fastness to artifical light rates in a scale from 1 to 8 in which 1 is “Very poor” and 8 is “Excelent”

FABRIC TEST:

ORIGINAL ECOSTRETCH (Outside Layer)

Mass per unit area: EN 12127:1997	182 g/m^2	± 5 %
Air permeability: EN ISO 9237:1995	380 mm/s	± 10 %
Thermal Resistance (RCT): EN ISO 11092:2014	0,013 m^{2}K/W	± 10 %
Water Vapour Resistance (RET): EN ISO 11092:2014	2,83 m^{2}Pa/W	± 10 %

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

AVERAGE LOAD		AVERAGE ELONGATION	
LENGTHWISE	210 N ± 10 %	LENGTHWISE	336% ± 10 %
CROSSWISE	230 N ± 10 %	CROSSWISE	239% ± 10 %

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

Determination of dimensional change in domestic washing and drying:
EN ISO 5077:2008

LENGTHWISE < ±3% CROSSWISE < ±3%
Washing procedure 4N (Ta=40 ±3ºC) according to ISO 6330:2012

Resistance to pilling: ISO 12945-2:2001	2	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	>90.000 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	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 artifical light rates in a scale from 1 to 8 in which 1 is “Very poor” and 8 is “Excellent”