

## GENERAL DESCRIPTION

- Multifunctional tubular made of Gore-Tex® fabric and a double layer of recycled microfiber.
- Ideal for static tasks in cold and windy weather.
- Suitable for maintaining body temperature in cold weather.
- Some designs incorporate two 3M Scotchlite™ retro-reflective stripes for enhanced visibility in poor light conditions.
- This CAT I PPE intended to protect the wearer's neck and/or head except the face (depending on the part of the body covered by the PPE) has been manufactured by Original Buff S.A. taking into account the basic health and safety requirements set forth in Annex II of Regulation (EU) 2016/425 and is in compliance with the requirements of standard EN ISO 13688:2013 on Protective Clothing, General Requirements; and Section 3.7 of Annex II of Regulation (EU) 2016/425 on Protection against Cold. The fabric has been tested in accordance with the test procedure set forth in standard UNE EN 14058:2017 on Protective Clothing, Garments for Protection against Cool Environments.

## CERTIFICATIONS



CAT I  
EN ISO 13688/13



## KEY FEATURES



4 WAY  
STRETCH



RECYCLED  
POLYESTER

**3M Scotchlite™**  
Reflective Material  
\*some designs



DRIES  
QUICKLY



MULTIFUNCTIONAL



MOISTURE  
MANAGEMENT



WATER  
REPELLENT



MICRO  
POLAR FLEECE



WINDPROOF

## DIMENSIONS



## FABRIC



## FABRIC COMPOSITION

<u>Composition:</u>	
POLYESTER	95%
ELASTANE	3%
PTFE	2%

Structure:  
Weft Knitting  
Single jersey

## PACKAGING



## WASHING MAINTENANCE SYMBOLS



## FABRIC TESTS

### Properties: **MICROFIBER**

Fabric composition: 95% RECICLED POLYESTER  
5% ELASTANE

<u>Mass per unit area:</u> EN 12127:1997		182 g/m <sup>2</sup> ±5%
<u>Air permeability:</u> EN ISO 9237:1995		603,76 mm/s ±10%
<u>Thermal Resistance (RCT):</u> EN ISO 11092: 2014		0,013 m <sup>2</sup> K/W ±10%
<u>Water Vapour Resistance (RET):</u> EN ISO 11092: 2014		2,83 m <sup>2</sup> Pa/W ±10%
<u>Determination of breaking Strength and elongation:</u> EN ISO 13934-1:2013		
Average Load (N)		Average Elongation (%)
Lengthwise	210 ±10%	Lengthwise 336 ±10%
Crosswise	230 ±10%	Crosswise 239 ±10%
<u>Determination of dimensional change in domestic washing and drying:</u> EN ISO 5077:2008 + ERRATUM:2008		
Washing procedure 4M (Ta=40 ±3°C) according to ISO 6330:2012		
Lengthwise	≤ 3%	Crosswise ≤ 3%
<u>Resistance to pilling:</u> EN ISO 12945-2:2001		2 - 2.000 cycles
Scale from 1 to 5 in which 1 is "Very severe pilling" and 5 is "No pilling".		
<u>Determination of the abrasion resistance of fabrics:</u> EN ISO 12947-2:2016		
Testing pressure: 9kPa		90.000 cycles
Until the first yarn broken		
<u>Fastness rates:</u>		
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		4-5
Colour fastness to rubbing (Dry & Wet) EN ISO 105-X12:2016		4-5
Colour fastness to sea water 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 EN ISO 105-B02:2014 method 2		6
(Fastness to artifical light rates in a scale from 1 to 8 in which 1 is "Very poor" and 8 is "Excellent".)		
<u>High Visibility</u>		
*Yellow fluor colour has been tested according to UNE-EN ISO 20471:2013 and fulfill the requirement of point 5.		
<u>Ultraviolet Protection:</u> AS / NZS 4399:1996		50 excellent protection

## FABRIC TESTS

### Properties:



Fabric composition: 96% POLYESTER  
4% PTFE

#### Mass per unit area:

UNE-EN 12127:1998

264 g/m<sup>2</sup> ±5%

#### Air permeability:

UNE-EN ISO 9237:1996

3,78 mm/s ±10%

#### Thermal Resistance (RCT):

ISO 11092: 2014

0,0413 m<sup>2</sup>K/W ±10%

#### Water Vapour Resistance (RET):

ISO 11092: 2014

5,92 m<sup>2</sup>Pa/W ±10%

#### Determination of breaking Strength and elongation:

UNE-EN ISO 13934-1:2013

Average Load (N)

Lengthwise 730 ±10%

Crosswise 340 ±10%

Average Elongation (%)

Lengthwise 119 ±10%

Crosswise 206 ±10%

#### Determination of dimensional change in domestic washing and drying:

UNE-EN ISO 5077:2008 + ERRATUM:2008

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

Lengthwise ≤3 %

Crosswise ≤3 %

#### Resistance to pilling:

UNE-EN ISO 12945-2:2001

5 - 2.000 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:

UNE-EN ISO 12947-2:1999/AC:2006

Testing pressure: 9kPa

60000 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

6

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