

2023CN1080

TEST REPORT

DATE OF RECEPTION

Date Format: dd/MM/yyyy 13/12/2023

APPLICANT

DATE OF TESTS

Starting : 19/12/2023

Ending: 01/02/2024

REFERENCE OF SAMPLES

Reference by AITEX	Reference by customer	AITEX sample description
2023CN1080-S01	WINTER JACKET 08401/08450	Jacket

TESTS CARRIED OUT

- SPECIFIC DESIGN REQUIREMENTS
- COMFORT
- PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING
- SIZE
- DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING
- DETERMINATION OF THE AREAS OF VISIBLE MATERIALS
- DETERMINATION OF COORDINATES (x,y,Y)
- COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING
- WATER VAPOUR RESISTANCE
- DETERMINATION OF RESISTANCE TO WATER PENETRATION
- SEAM TENSILE RESISTANCE
- DETERMINATION OF BREAKING STRENGTH AND ELONGATION
- DETERMINATION OF TEAR RESISTANCE
- DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Tests marked with * are not included within the scope of the accreditation.



DESCRIPTION OF SAMPLES



Reference by AITEX: 2023CN1080-S01

Reference by customer:

WINTER JACKET 08401/08450

Information supplied by the customer

Main fabric 100% Polyester 190 gsm Yellow, orange, red, navy, grey

Padding 100% Polyester 160 gsm white

Taffeta lining 100% Polyester 60 gsm black

Fleece lining 100% Polyester 200 gsm grey

AITEX Subsamples	Subsample Description
2023CN1080-S01.1	YELLOW ASSEMBLY
2023CN1080-S01.1_P1	YELLOW ASSEMBLY AFTER WASH
2023CN1080-S01.1_P2	YELLOW ASSEMBLY AFTER XENON
2023CN1080-S01.2	ORANGE ASSEMBLY
2023CN1080-S01.2_P1	ORANGE ASSEMBLY AFTER WASH
2023CN1080-S01.2_P2	ORANGE ASSEMBLY AFTER XENON
2023CN1080-S01.3	RED ASSEMBLY
2023CN1080-S01.3_P1	RED ASSEMBLY AFTER WASH
2023CN1080-S01.3_P2	RED ASSEMBLY AFTER XENON
2023CN1080-S01.4	SEAMS
2023CN1080-S01.4_P1	SEAMS AFTER WASH
2023CN1080-S01.5	EXTERNAL YELLOW FABRIC AS NEW
2023CN1080-S01.5_P1	EXTERNAL YELLOW FABRIC AFTER WASH
2023CN1080-S01.5_P2	EXTERNAL YELLOW FABRIC AFTER XENON
2023CN1080-S01.6	GARMENT AFTER WASH



2023CN1080-S01.7	SILVER TAPE
2023CN1080-S01.8	BLACK TAFFETA
2023CN1080-S01.9	GREY FLEECE LINING
2023CN1080-S01.10	NAVY FABRIC AS NEW
2023CN1080-S01.11	GREY FABRIC AS NEW
2023CN1080-S01.12	EXTERNAL ORANGE FABRIC AS NEW
2023CN1080-S01.13	EXTERNAL RED FABRIC AS NEW
2023CN1080-S01.14	SLEEVES YELLOW ASSEMBLY AS NEW
2023CN1080-S01.14_P1	SLEEVES YELLOW ASSEMBLY AFTER WASH
2023CN1080-S01.14_P2	SLEEVES YELLOW ASSEMBLY AFTER XENON
2023CN1080-S01.15	SLEEVES RED ASSEMBLY AS NEW
2023CN1080-S01.15_P1	SLEEVES RED ASSEMBLY AFTER WASH
2023CN1080-S01.15_P2	SLEEVES RED ASSEMBLY AFTER XENON
2023CN1080-S01.16	SLEEVES ORANGE ASSEMBLY AS NEW
2023CN1080-S01.16_P1	SLEEVES ORANGE ASSEMBLY AFTER WASH
2023CN1080-S01.16_P2	SLEEVES ORANGE ASSEMBLY AFTER XENON
2023CN1080-S01.17	RED ZIPPER
2023CN1080-S01.18	ORANGE ZIPPER
2023CN1080-S01.19	YELLOW ZIPPER
2023CN1080-S01.23	YELLOW SLIP STOPPER
2023CN1080-S01.24	ORANGE SLIP STOPPER
2023CN1080-S01.25	RED SLIP STOPPER
2023CN1080-S01.26	FLEECE NAVY AS NEW
2023CN1080-S01.27	WINTER JACKET 08401 MAN
2023CN1080-S01.28	WINTER JACKET 08450 WOMAN



EXECUTIVE SUMMARY

	Reference	Test/Standard	Result
EN ISO 13688:2013+EN ISO 13688:2013_A1:2021 1	2023CN1080-S01	SPECIFIC DESIGN REQUIREMENTS EN ISO 13688:2013 + A1:2021 Pto. 4.3 y Anexo C	PASS
		COMFORT EN ISO 13688:2013+EN ISO 13688:2013_A1:2021	PASS
	2023CN1080-S01.27	SIZE EN ISO 13688:2013 + EN ISO 13688:2013_A1:2021 Pto 6	TESTED
	2023CN1080-S01.28	SIZE EN ISO 13688:2013 + EN ISO 13688:2013_A1:2021 Pto 6	TESTED
	2023CN1080-S01.6	DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING EN ISO 5077:2008	PASS
EN 343:2019	2023CN1080-S01	SPECIFIC DESIGN REQUIREMENTS EN 343:2019	PASS
	2023CN1080-S01.1	WATER VAPOUR RESISTANCE EN ISO 11092:2014	CLASS 1
	2023CN1080-S01.14	WATER VAPOUR RESISTANCE EN ISO 11092:2014	CLASS 1
	2023CN1080-S01.4	DETERMINATION OF RESISTANCE TO WATER PENETRATION EN 20811:1992	CLASS 3
	2023CN1080-S01.4_P1	DETERMINATION OF RESISTANCE TO WATER PENETRATION EN 20811:1992	CLASS 4
		SEAM TENSILE RESISTANCE EN ISO 13935-2:2014	PASS
	2023CN1080-S01.5	DETERMINATION OF BREAKING STRENGTH AND ELONGATION EN ISO 1421:2016	#NE
		DETERMINATION OF TEAR RESISTANCE EN ISO 4674-1:2016 Met.A	#NE
	2023CN1080-S01.6	DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING EN ISO 5077:2008	PASS
EN ISO 20471:2013+EN ISO 20471:2013+AMD1: 2016	2023CN1080-S01	SPECIFIC DESIGN REQUIREMENTS EN ISO 20471:2013+A1:2015 Pto. 4 y Pto 5	PASS
	2023CN1080-S01.1	WATER VAPOUR RESISTANCE EN ISO 11092:2014	CLASS 1
	2023CN1080-S01.1_P1 + 2023CN1080-S01.1 + 2023CN1080-S01.1_P2	DETERMINATION OF COORDINATES (x,y,Y) ISO 105-J01:1997	PASS
	2023CN1080-S01.10	COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING EN ISO 105-C06:2010	#NE
	2023CN1080-S01.11	COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING EN ISO 105-C06:2010	#NE
	2023CN1080-S01.12	COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING EN ISO 105-C06:2010	#NE
	2023CN1080-S01.13	COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING EN ISO 105-C06:2010	#NE



EN ISO 20471:2013+EN ISO 20471:2013+AMD1: 2016	2023CN1080-S01.14	WATER VAPOUR RESISTANCE EN ISO 11092:2014	CLASS 1
	2023CN1080-S01.14 + 2023CN1080-S01.14_P1 + 2023CN1080- S01.14_P2	DETERMINATION OF COORDINATES (x,y,Y) ISO 105-J01:1997	PASS
	2023CN1080-S01.15 + 2023CN1080-S01.15_P1 + 2023CN1080- S01.15_P2	DETERMINATION OF COORDINATES (x,y,Y) ISO 105-J01:1997	PASS
	2023CN1080-S01.16 + 2023CN1080-S01.16_P1 + 2023CN1080- S01.16_P2	DETERMINATION OF COORDINATES (x,y,Y) ISO 105-J01:1997	PASS
	2023CN1080-S01.17	COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING EN ISO 105-C06:2010	PASS
	2023CN1080-S01.18	COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING EN ISO 105-C06:2010	PASS
	2023CN1080-S01.19	COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING EN ISO 105-C06:2010	PASS
	2023CN1080-S01.2 + 2023CN1080-S01.2_P1 + 2023CN1080-S01.2_P2	DETERMINATION OF COORDINATES (x,y,Y) ISO 105-J01:1997	PASS
	2023CN1080-S01.28	DETERMINATION OF THE AREAS OF VISIBLE MATERIALS EN ISO 20471:2013+EN ISO 20471:2013 + Amd1:2016 Pto 4.1	CLASS 2
	2023CN1080-S01.3 + 2023CN1080-S01.3_P1 + 2023CN1080-S01.3_P2	DETERMINATION OF COORDINATES (x,y,Y) ISO 105-J01:1997	PASS
	2023CN1080-S01.5	COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING EN ISO 105-C06:2010	#NE
		DETERMINATION OF BREAKING STRENGTH AND ELONGATION EN ISO 1421:2016	#NE
		DETERMINATION OF TEAR RESISTANCE EN ISO 4674-1:2016 Met.A	#NE
2023CN1080-S01.6	DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING EN ISO 5077:2008	PASS	



EN ISO 20471:2013+EN ISO 20471:2013+AMD1: 2016	2023CN1080-S01.7	DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE EN ISO 20471:2013+EN ISO 20471:2013+Amd1:2016	#NE
	2023CN1080-S01.8	COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING EN ISO 105-C06:2010	#NE
	2023CN1080-S01.9	COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING EN ISO 105-C06:2010	#NE

#NE: Partial test for verification



REQUIREMENT SUMMARY

DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING

REQUIREMENT ACCORDING EN ISO 13688:2013+EN ISO 13688:2013_A1:2021

The dimensional change shall not exceed $\pm 3\%$, both in width warp and in length weft.

The dimensional change of knitted fabrics shall not exceed $\pm 5\%$, both in width Crosswise and in length Lengthwise.

DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING

REQUIREMENT ACCORDING EN 343:2019

The dimensional change shall not exceed $\pm 3\%$, both in width warp and in length weft.

The dimensional change of knitted fabrics shall not exceed $\pm 5\%$, both in width Crosswise and in length Lengthwise.

DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING

REQUIREMENT ACCORDING EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016

The dimensional change shall not exceed $\pm 3\%$, both in width warp and in length weft.

The dimensional change of knitted fabrics shall not exceed $\pm 5\%$, both in width Crosswise and in length Lengthwise.

DETERMINATION OF THE AREAS OF VISIBLE MATERIALS

REQUIREMENT ACCORDING EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016

Minimal areas of visible material in m²

	Garment class 3	Garment class 2	Garment class 1
Background material	≥ 0.80	≥ 0.50	≥ 0.14
Retroreflective material	≥ 0.20	≥ 0.13	≥ 0.10
Combined material	---	---	≥ 0.20



DETERMINATION OF COORDINATES (x,y,Y)

REQUIREMENT ACCORDING EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016

The chromatic coordinates must be situated within the area defined by the coordinates specified in the Standard EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016 and the luminance factor shall exceed according to:

Colour	Minimum luminance factor
Yellow	0.70
Orange	0.40
Red	0.25

COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDRING

REQUIREMENT ACCORDING EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016

The limit set to Standard for testing of colour fastness to washing is 4-5 for degradation and 4 for staining.

WATER VAPOUR RESISTANCE

REQUIREMENT ACCORDING EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016

According to requirement of EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016 standard, waterproof garments must be classified according to EN 343:

Class 1	Class 2	Class 3	Class 4
$R_{et} > 40$	$25 < R_{et} \leq 40$	$15 < R_{et} \leq 25$	$R_{et} \leq 15$

WATER VAPOUR RESISTANCE

REQUIREMENT ACCORDING EN 343:2019

According to requirement of EN 343:2019 standard, waterproof garments must be classified according to EN 343:

Class 1	Class 2	Class 3	Class 4
$R_{et} > 40$	$25 < R_{et} \leq 40$	$15 < R_{et} \leq 25$	$R_{et} \leq 15$



DETERMINATION OF RESISTANCE TO WATER PENETRATION

REQUIREMENT ACCORDING EN 343:2019

	CLASS 1	CLASS 2	CLASS 3	CLASS 4
Material before pre-treatment	≥ 8000 Pa	---	---	---
Material after pre-treatment	---	≥ 8000 Pa	≥ 13000 Pa	≥ 20000 Pa
Seams before pre-treatment	≥ 8000 Pa	≥ 8000 Pa	≥ 13000 Pa	---
Seams after pre-treatment	---	---	---	≥ 20000 Pa

SEAM TENSILE RESISTANCE

REQUIREMENT ACCORDING EN 343:2019

The external material must resist a breaking load ≥ 200 N.

DETERMINATION OF BREAKING STRENGTH AND ELONGATION

REQUIREMENT ACCORDING EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016

The external material must resist a breaking load in both directions ≥ 100 N.

DETERMINATION OF TEAR RESISTANCE

REQUIREMENT ACCORDING EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016

The external material must resist a determination of tear resistance in both directions ≥ 20 N.

DETERMINATION OF BREAKING STRENGTH AND ELONGATION

REQUIREMENT ACCORDING EN 343:2019

The external material must resist a breaking load in both directions ≥ 450 N.

DETERMINATION OF TEAR RESISTANCE

REQUIREMENT ACCORDING EN 343:2019

The external material must resist a determination of tear resistance in both directions ≥ 20 N.



DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE REQUIREMENT ACCORDING EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016

According EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016. point 6.1, table 4.

Ángulo de observación	Ángulo de iluminación β_1 ($\beta_2 = 0$)			
	5°	20°	30°	40°
12'	330	290	180	65
20'	250	200	170	60
1°	25	15	12	10
1°30'	10	7	5	4

MEANING OF COLOUR FASTNESS APPRAISAL EVALUATED WITH GREY SCALE

VALUE	MEANING
5	VERY GOOD - EXCELLENT
4	GOOD
3	FAIR - MODERATE
2	POOR - BEHAVIOUR
1	VERY POOR



RESULTS

SPECIFIC DESIGN REQUIREMENTS

Standard

EN ISO 13688:2013 + A1:2021 Pto. 4.3 y Anexo C

Reference

2023CN1080-S01

The protection clothing design makes easy its correct placement and wearing staying with no movement during the use period intended.	PASS
The design of the protective clothing applies elements from other protective or equipment clothing, which are used to create a comprehensive protective outfit.	PASS
The clothing has no rough, sharp or hard surfaces or edges that could damage or irritate the user.	PASS
The clothing is not enough narrow for causing flow blood restriction.	PASS
The clothing is not enough loose and heavy for interfering the user's movement.	PASS

N/A: Not Applicable

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01	WINTER JACKET 08401/08450



RESULTS

COMFORT

Standard

EN ISO 13688:2013+EN ISO 13688:2013_A1:2021



Reference

2023CN1080-S01

Test date

Start date

20/12/2023

End date

20/12/2023

1. Protective clothing, on its interior or exterior surfaces.	
1.1 Is it free of any hard or sharp edges, protruding wires, rough surfaces or any other element that may cause harm to the user or others?	YES
2. Is it possible to put on and take off protective clothing without difficulty?	
2.1 Ease of putting on clothes with or without help. (YES = without help / NO = with help)	YES
2.2 The clothes are tight, comfortable and do not impede deep breathing.	YES
2.3 The design of the clothes, are correctly proportioned and positioned.	YES
3. Can closures, adjustment systems and control systems be operated without difficulty?	
3.1 The adjustment and adjustment interval are correct.	YES
3.2 The settings are easy to use.	YES
3.3 Closures, adjustment systems and control systems can withstand the forces to which they are subjected as a result of body movements and tasks for which clothing is provided.	YES
4. Does the protective clothing cover the intended body surfaces and do these surfaces remain covered during the movements made?	
4.1 The coating of any specified protection zone, by means of protective material or special construction, is adequate.	YES
4.2 During the realization of movements as extreme as a user is expected to do, the area remains covered.	YES
5. Can the following movements be made without difficulty?	
5.1 Stand, sit, walk and climb stairs.	YES
5.2 Raise both hands above the head.	YES
5.3 Bend the body and pick up a small object.	YES
6. Considerations	
6.1 Sleeves and legs should not be so long that they interfere with arm and foot movements.	NO
6.2 Clothing is so loose that it flies or moves independently and unintentionally.	NO
6.3 There are points in which unexpected or unintentional gaps between the components of the clothing are opened.	NO
6.4 There is an unreasonable restriction of movements.	NO
7. Is the clothing compatible with other PPE?	
7.1 The protective clothing that is part of the set is compatible with the elements.	YES
7.2 It is possible to remove or put on other PPE (gloves, footwear, ...) without difficulty.	YES
8. Basis for considering a product as unacceptable	
8.1 The items for which it is intended can not be carried by the garment.	NO
8.2 The garment does not stay put or in its position.	NO
8.3 Commits a vital function, such as breathing.	NO
8.4 It is impossible to perform simple tasks with the clothes on.	NO
8.5 The tester refuses to continue the verification due to pain.	NO
8.6 The garment prevents the use of other essential PPE.	NO

Note

The ergonomics verification has been performed by physical dimensions commensurate with the size found. According to the inspection of the garment, this fulfills ergonomics requirement.



The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01	WINTER JACKET 08401/08450



RESULTS

PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Standard

EN ISO 6330:2021

Test date

Start date 20/12/2023 **End date** 21/12/2023

Washing procedure

4N

Washing temperature

40°C

Washing cycles

5

Dryer type

James Heal

Drying procedure

F (type A1 tumble drying)

Drying temperature

70°C

Washing powder

Reference detergent 3

Reference

2023CN1080-S01

Units	Dry mass of the samples(Kg)	Counterweight mass(Kg)	Counterweight type	Equipment
1	0.06	1.9	Type III	WASCATOR

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01	WINTER JACKET 08401/08450



RESULTS

PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Standard

EN ISO 6330:2021

Test date

Start date 21/12/2023 **End date** 21/12/2023

Washing procedure

4N

Washing temperature

40°C

Washing cycles

5

Dryer type

James Heal

Drying procedure

F (type A1 tumble drying)

Drying temperature

70°C

Washing powder

Reference detergent 3

Reference

2023CN1080-S01

Units	Dry mass of the samples(Kg)	Counterweight mass(Kg)	Counterweight type	Equipment
1	0.05	1.9	Type III	WASCATOR

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01	WINTER JACKET 08401/08450



RESULTS

SIZE

Standard

EN ISO 13688:2013 + EN ISO 13688:2013_A1:2021 Pto 6

Test date

Start date 29/01/2024 **End date** 29/01/2024

Measured size

S

Reference

2023CN1080-S01.28

Bust girth (cm)	107.0
Arm height (cm)	62.0
Back length (cm)	66.0

Uncertainty

± 1% of the obtained value

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.28	WINTER JACKET 08450 WOMAN



RESULTS

SIZE

Standard

EN ISO 13688:2013 + EN ISO 13688:2013_A1:2021 Pto 6

Test date

Start date 29/01/2024 **End date** 29/01/2024

Measured size

S

Reference

2023CN1080-S01.27

Bust girth (cm)	121.0
Arm height (cm)	59.5
Back length (cm)	77.5

Uncertainty

± 1% of the obtained value

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.27	WINTER JACKET 08401 MAN



RESULTS

DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING

Standard

EN ISO 5077:2008

Equipment

Wascator type A-Horizontal drum, front loading

Test date

Start date 19/12/2023 **End date** 22/01/2024

Washing cycles

5

Uncertainty

± 0.5 %

Measured size

Reference

2023CN1080-S01.6

	Measurement
Length of the armhole to the hem of the garment.	-1.0 %
Length of the front, from the junction of the shoulder seam and noneck seam, to the bottom hem.	-2.0 %
Length center back, from the noneck immediately below the noneck or bending, to the bottom hem.	-1.0 %
Length underarm seam from the underarm to hem sleeve.	-3.0 %
Width from side to side of the back, between the sleeve seams, measured at an intermediate distance between the center of the back and noneck under the armhole, or yoke width from sleeve seam to sleeve seam.	-1.0 %
Width (ie half the circumference measurement), in at least three locations approximately equidistant points located below the noneck, in the middle of the back.	-1.0 %
Beam width (from lateral coupling thereof with seams) at right angles to the sleeve.	0.0 %
Beam width in the low bottom cuff or sleeve.	-2.0 %



The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.6	GARMENT AFTER WASH



RESULTS

DETERMINATION OF THE AREAS OF VISIBLE MATERIALS

Standard

EN ISO 20471:2013+EN ISO 20471:2013 + Amd1:2016 Pto 4.1

Test date

Start date 29/01/2024 End date 29/01/2024

Uncertainty

1.5 · 10⁻⁴m²

Reference

2023CN1080-S01.28

Size	Background material (m ²)	Retroreflective material (m ²)	Combined material (m ²)
S	0.56	0.18	---

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.28	WINTER JACKET 08450 WOMAN



RESULTS

SPECIFIC DESIGN REQUIREMENTS

Standard

EN ISO 20471:2013+A1:2015 Pto. 4

Reference

2023CN1080-S01

The base material covers the torso and/or the sleeves and/or the legs with a minimum width of 50 mm. The proportion of base material in the back and front parts of the garment is 50% \pm 10%.	PASS
The retroreflective material strips are at least 50 mm wide.	PASS
The garment has one or more strips of retroreflective material, which are at least 50 mm apart and run round the torso at a maximum angle of $\pm 20^\circ$ from the horizontal, and strips of retroreflective material joining the upper horizontal strip on the torso from front to back by running over each shoulder. The lower part of the lower horizontal strip is at least 50 mm from the hem of the garment.	N/A
The garment has two horizontal strips of retroreflective material, which are at least 50 mm apart, which run round the torso at a maximum angle of $\pm 20^\circ$ from the horizontal. The lower part of the lower horizontal strip is at least 50 mm from the hem of the garment.	PASS
The tabard is made so that the appropriate sized person can use it with a horizontal side opening that is no greater than 50mm.	N/A
Each lengthways strip of combination or retroreflective material is continuous (so that the garment can be closed or the seams can be joined) and is over 50 mm when measured in parallel to the direction of the strip. The total length of the non-continuous section is no more than 100 mm on either of the strips around the torso, or 50 mm on the strips around the sleeves and legs.	PASS
The long sleeves of the garment have two strips of retroreflective material that are at least 50 mm apart. The lower part of the lower horizontal strip is at least 50 mm from the hem of the sleeve.	PASS
The short sleeves are encircled by a reflective band (only in the case that the sleeve blocks a clear view of a horizontal torso band). The lower part of the lower horizontal strip is at least 50 mm from the hem of the sleeve.	N/A
The garment has two or more horizontal strips of retroreflective material, which are at least 50 mm apart, which run horizontally around each leg at a maximum angle of $\pm 20^\circ$ from the horizontal. The lower part of the lower horizontal strip is at least 50 mm from the border of the leg.	N/A

N/A: Not Applicable

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01	WINTER JACKET 08401/08450



RESULTS

DETERMINATION OF COORDINATES (x,y,Y)

Standard

ISO 105-J01:1997

Equipment

Konica Minolta ((0921E06) 400nm-700nm)

Test date

Start date	19/12/2023	End date	17/01/2024
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Conditioned date

Start date	19/12/2023	End date	17/1/2024
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Atmosphere for conditioning

Temperature	(20 ± 2) °C	Relative Humidity	(65 ± 5) %
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Illuminant

D65

Observant

2°

Measuring geometry

45/0

Specular component and UV filter

Excluded

Observation area

Small

Number of measurements

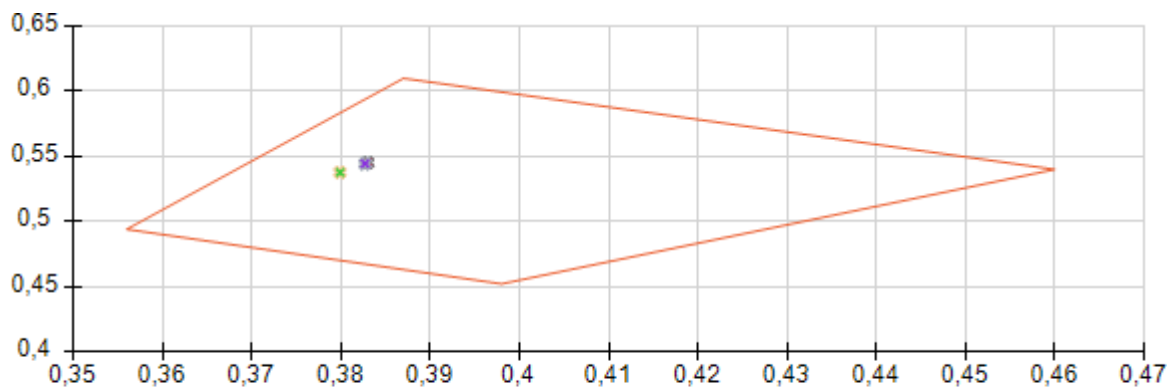
5



Reference

2023CN1080-S01.1
 2023CN1080-S01.1_P1
 2023CN1080-S01.1_P2

	x	y	Y minimum
♦Coordinate 1	0,387	0,610	
♦Coordinate 2	0,356	0,494	
♦Coordinate 3	0,398	0,452	0,70
♦Coordinate 4	0,460	0,540	
Original	0,383	0,544	1,13
After 5 washing cycles 4N + F	0,383	0,545	1,12
After exposure to Xenon light	0,380	0,538	1,10
Uncertainty	± 0.4 %	± 0.5 %	± 1 %



	Original		5 cycles, 4N + F
	After exposure to Xenon light		

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.1	YELLOW ASSEMBLY
2023CN1080-S01.1_P1	YELLOW ASSEMBLY AFTER WASH
2023CN1080-S01.1_P2	YELLOW ASSEMBLY AFTER XENON



RESULTS

DETERMINATION OF COORDINATES (x,y,Y)

Standard

ISO 105-J01:1997

Equipment

Konica Minolta ((0921E06) 400nm-700nm)

Test date

Start date	20/12/2023	End date	17/01/2024
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Conditioned date

Start date	20/12/2023	End date	17/1/2024
-------------------	------------	-----------------	-----------

Atmosphere for conditioning

Temperature	(20 ± 2) °C	Relative Humidity	(65 ± 5) %
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Illuminant

D65

Observant

2°

Measuring geometry

45/0

Specular component and UV filter

Excluded

Observation area

Small

Number of measurements

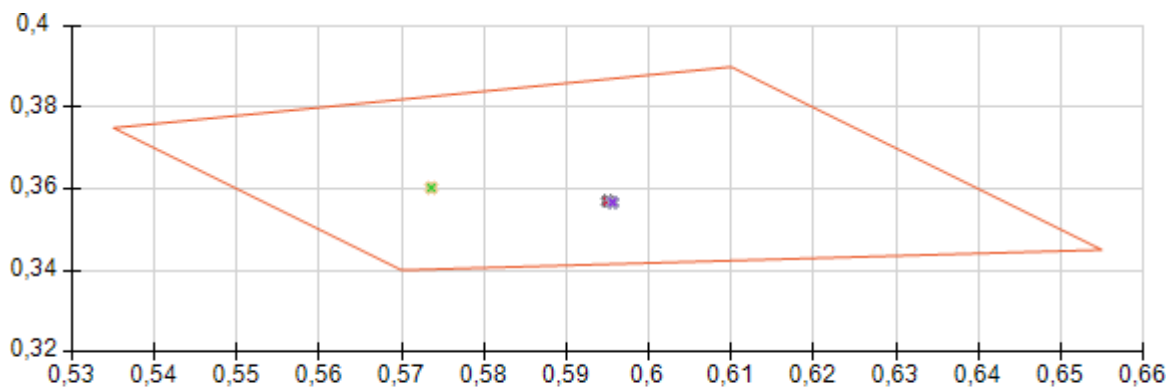
5



Reference

2023CN1080-S01.2
 2023CN1080-S01.2_P1
 2023CN1080-S01.2_P2

	x	y	Y minimum
♦Coordinate 1	0,61	0,390	
♦Coordinate 2	0,535	0,375	
♦Coordinate 3	0,570	0,340	0,40
♦Coordinate 4	0,655	0,345	
Original	0,596	0,357	0,50
After 5 washing cycles 4N + F	0,595	0,357	0,50
After exposure to Xenon light	0,574	0,360	0,51
Uncertainty	± 0.4 %	± 0.5 %	± 1 %



	Original		5 cycles, 4N + F
	After exposure to Xenon light		

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.2	ORANGE ASSEMBLY
2023CN1080-S01.2_P1	ORANGE ASSEMBLY AFTER WASH
2023CN1080-S01.2_P2	ORANGE ASSEMBLY AFTER XENON



RESULTS

DETERMINATION OF COORDINATES (x,y,Y)

Standard

ISO 105-J01:1997

Equipment

Konica Minolta ((0921E06) 400nm-700nm)

Test date

Start date	20/12/2023	End date	17/01/2024
-------------------	------------	-----------------	------------

Conditioned date

Start date	20/12/2023	End date	17/1/2024
-------------------	------------	-----------------	-----------

Atmosphere for conditioning

Temperature	(20 ± 2) °C	Relative Humidity	(65 ± 5) %
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Illuminant

D65

Observant

2°

Measuring geometry

45/0

Specular component and UV filter

Excluded

Observation area

Small

Number of measurements

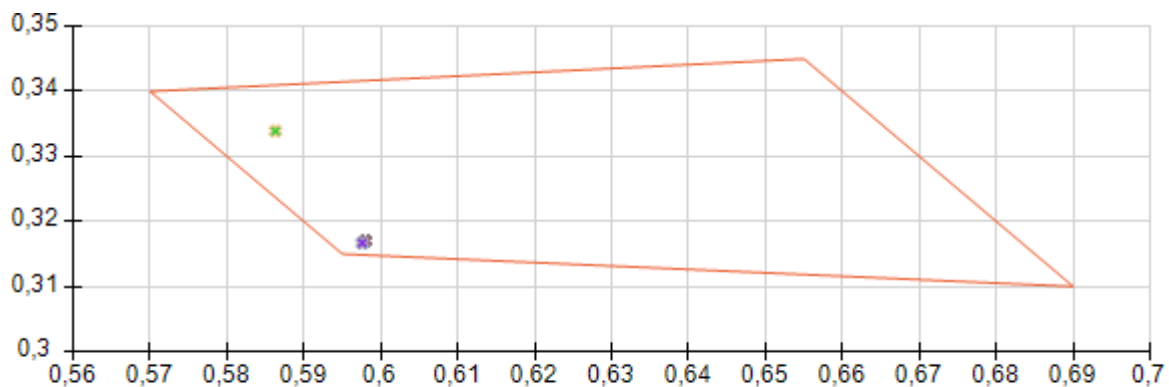
5



Reference

- 2023CN1080-S01.3
- 2023CN1080-S01.3_P1
- 2023CN1080-S01.3_P2

	x	y	Y minimum
♦Coordinate 1	0,655	0,345	
♦Coordinate 2	0,570	0,340	
♦Coordinate 3	0,595	0,315	0,25
♦Coordinate 4	0,690	0,310	
Original	0,598	0,317	0,28
After 5 washing cycles 4N + F	0,598	0,317	0,29
After exposure to Xenon light	0,586	0,334	0,37
Uncertainty	± 0.4 %	± 0.5 %	± 1 %



	Original		5 cycles, 4N + F
	After exposure to Xenon light		

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.3	RED ASSEMBLY
2023CN1080-S01.3_P1	RED ASSEMBLY AFTER WASH
2023CN1080-S01.3_P2	RED ASSEMBLY AFTER XENON



RESULTS

COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING

Standard

EN ISO 105-C06:2010

Test date

Start date 22/01/2024 **End date** 22/01/2024

Equipment

Gyrowash

Test number

A1M

Temperature

(40)°C

Steel balls

10

Washing powder

Standardized ECE soap reference without optical or chemical whitener

Reference

2023CN1080-S01.17

Change in colour	Staining	
	Cotton	Polyester
5	4-5	4-5

Reference

2023CN1080-S01.18

Change in colour	Staining	
	Cotton	Polyester
5	4-5	4-5

Reference

2023CN1080-S01.19

Change in colour	Staining	
	Cotton	Polyester
5	4-5	4-5

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.17	RED ZIPPER
2023CN1080-S01.18	ORANGE ZIPPER
2023CN1080-S01.19	YELLOW ZIPPER



RESULTS

WATER VAPOUR RESISTANCE

Standard

EN ISO 11092:2014

Test date

Start date 23/01/2024 **End date** 23/01/2024

Atmosphere for conditioning

Temperature (35 ± 0.5) °C **Relative Humidity** (40 ± 3) %

Conditioning time

24 h. ambient conditions at (35 ± 0.5) °C and (40 ± 3) % RH

Uncertainty

± 7% of the result

Number of test specimens per material to be tested

Tested 3

Disposition test specimens

The inner face is in contact to the measurement surface.

Reference	Specimen	Water vapour resistance Ret (m ² ·Pa/W)
2023CN1080-S01.1	1	416.00
	2	409.70
	3	421.07
	Average	415.59

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.1	YELLOW ASSEMBLY



RESULTS

DETERMINATION OF COORDINATES (x,y,Y)

Standard

ISO 105-J01:1997

Equipment

Konica Minolta ((0921E06) 400nm-700nm)

Test date

Start date	19/12/2023	End date	17/01/2024
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Conditioned date

Start date	19/12/2023	End date	17/1/2024
-------------------	------------	-----------------	-----------

Atmosphere for conditioning

Temperature	(20 ± 2) °C	Relative Humidity	(65 ± 5) %
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Illuminant

D65

Observant

2°

Measuring geometry

45/0

Specular component and UV filter

Excluded

Observation area

Small

Number of measurements

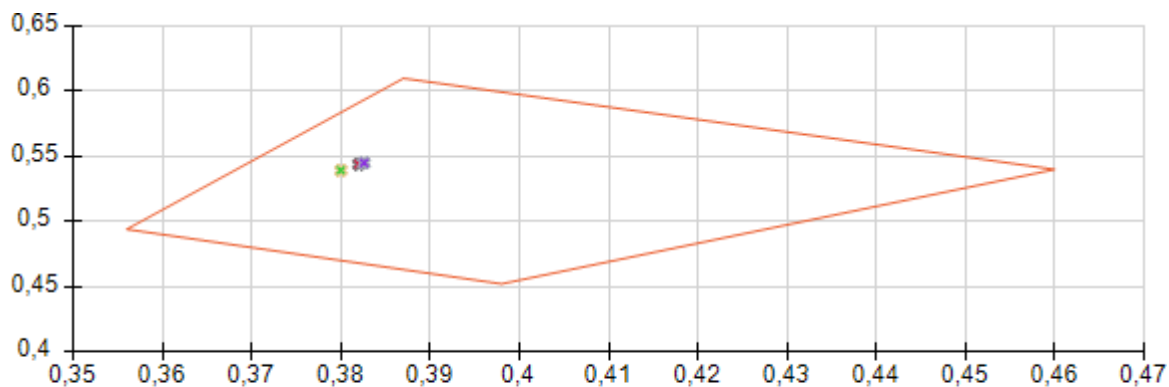
5



Reference

- 2023CN1080-S01.14
- 2023CN1080-S01.14_P1
- 2023CN1080-S01.14_P2

	x	y	Y minimum
◆Coordinate 1	0,387	0,610	
◆Coordinate 2	0,356	0,494	
◆Coordinate 3	0,398	0,452	0,70
◆Coordinate 4	0,460	0,540	
Original	0,383	0,545	1,13
After 5 washing cycles 4N + F	0,382	0,544	1,12
After exposure to Xenon light	0,380	0,539	1,09
Uncertainty	± 0.4 %	± 0.5 %	± 1 %



◆	Original	◆	5 cycles, 4N + F
◆	After exposure to Xenon light		

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.14	SLEEVES YELLOW ASSEMBLY AS NEW
2023CN1080-S01.14_P1	SLEEVES YELLOW ASSEMBLY AFTER WASH
2023CN1080-S01.14_P2	SLEEVES YELLOW ASSEMBLY AFTER XENON



RESULTS

DETERMINATION OF COORDINATES (x,y,Y)

Standard

ISO 105-J01:1997

Equipment

Konica Minolta ((0921E06) 400nm-700nm)

Test date

Start date	20/12/2023	End date	17/01/2024
-------------------	------------	-----------------	------------

Conditioned date

Start date	20/12/2023	End date	17/1/2024
-------------------	------------	-----------------	-----------

Atmosphere for conditioning

Temperature	(20 ± 2) °C	Relative Humidity	(65 ± 5) %
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Illuminant

D65

Observant

2°

Measuring geometry

45/0

Specular component and UV filter

Excluded

Observation area

Small

Number of measurements

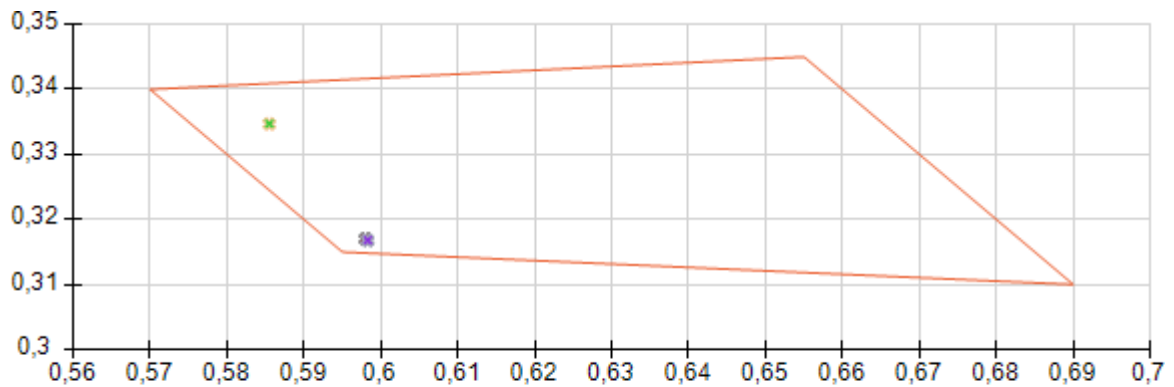
5



Reference

- 2023CN1080-S01.15
- 2023CN1080-S01.15_P1
- 2023CN1080-S01.15_P2

	x	y	Y minimum
♦Coordinate 1	0,655	0,345	
♦Coordinate 2	0,570	0,340	
♦Coordinate 3	0,595	0,315	0,25
♦Coordinate 4	0,690	0,310	
Original	0,598	0,317	0,29
After 5 washing cycles 4N + F	0,598	0,317	0,29
After exposure to Xenon light	0,586	0,335	0,37
Uncertainty	± 0.4 %	± 0.5 %	± 1 %



	Original		5 cycles, 4N + F
	After exposure to Xenon light		

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.15	SLEEVES RED ASSEMBLY AS NEW
2023CN1080-S01.15_P1	SLEEVES RED ASSEMBLY AFTER WASH
2023CN1080-S01.15_P2	SLEEVES RED ASSEMBLY AFTER XENON



RESULTS

DETERMINATION OF COORDINATES (x,y,Y)

Standard

ISO 105-J01:1997

Equipment

Konica Minolta ((0921E06) 400nm-700nm)

Test date

Start date	20/12/2023	End date	17/01/2024
-------------------	------------	-----------------	------------

Conditioned date

Start date	20/12/2023	End date	17/1/2024
-------------------	------------	-----------------	-----------

Atmosphere for conditioning

Temperature	(20 ± 2) °C	Relative Humidity	(65 ± 5) %
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Illuminant

D65

Observant

2°

Measuring geometry

45/0

Specular component and UV filter

Excluded

Observation area

Small

Number of measurements

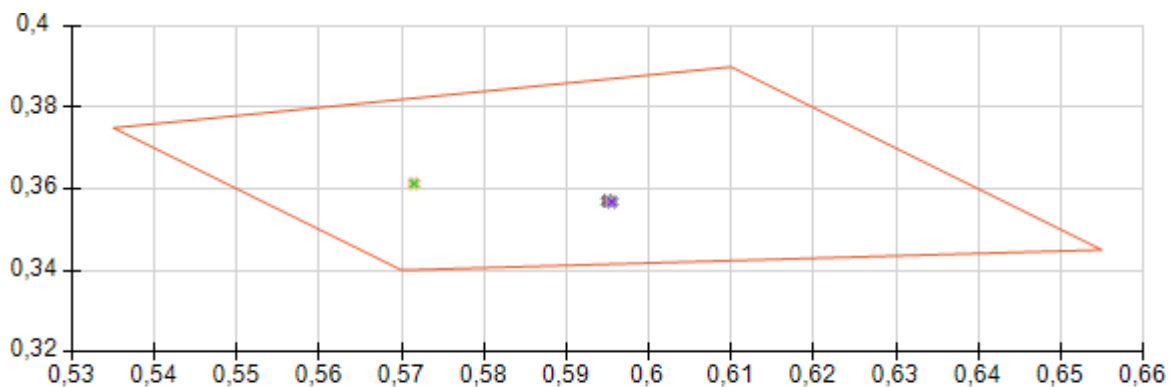
5



Reference

- 2023CN1080-S01.16
- 2023CN1080-S01.16_P1
- 2023CN1080-S01.16_P2

	x	y	Y minimum
♦Coordinate 1	0,61	0,390	
♦Coordinate 2	0,535	0,375	
♦Coordinate 3	0,570	0,340	0,40
♦Coordinate 4	0,655	0,345	
Original	0,596	0,357	0,50
After 5 washing cycles 4N + F	0,595	0,357	0,50
After exposure to Xenon light	0,572	0,361	0,52
Uncertainty	± 0.4 %	± 0.5 %	± 1 %



	Original		5 cycles, 4N + F
	After exposure to Xenon light		

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.16	SLEEVES ORANGE ASSEMBLY AS NEW
2023CN1080-S01.16_P1	SLEEVES ORANGE ASSEMBLY AFTER WASH
2023CN1080-S01.16_P2	SLEEVES ORANGE ASSEMBLY AFTER XENON



RESULTS

SPECIFIC DESIGN REQUIREMENTS

Standard

EN 343:2019

Reference

2023CN1080-S01

The garment fulfils the requirements set out in the EN ISO 13688:2013 guideline.	PASS
The garment shall not have rough, sharp or hard surfaces that irritate or injure the user.	PASS
All pockets shall be constructed to avoid water inside the garment.	PASS
Closures, such as slide fasteners, fasteners, buttons etc. shall not open inadvertently.	PASS

N/A: Not Applicable

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01	WINTER JACKET 08401/08450



RESULTS

DETERMINATION OF RESISTANCE TO WATER PENETRATION

Standard

EN 20811:1992

Equipment

Hydrostatic Head Tester

Atmosphere for conditioning

Temperature (20 ± 2) °C **Relative Humidity** (65 ± 4) %

Water temperature

20°C

Rate of increase of water pressure

(10±0.5) cm H₂O/min ((980±50) Pa/min)

Surface exposed

External face

Manometer precision

± 0,5 cm H₂O

Reference

2023CN1080-S01.4

Test date

Start date 20/12/2023 **End date** 21/12/2023
Reference

Atmosphere for testing

Temperature (20.0± 2) °C		Relative Humidity (65.0 ± 4) %	
Specimen	Pressure (cm/H₂O)	Pressure (Pa)	Less pressure (Pa)
1	>200	>20000	>20000
2	>200	>20000	
3	>200	>20000	
4	>200	>20000	

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.4	SEAMS



RESULTS

WATER VAPOUR RESISTANCE

Standard

EN ISO 11092:2014

Test date

Start date 23/01/2024 **End date** 23/01/2024

Atmosphere for conditioning

Temperature (35 ± 0.5) °C **Relative Humidity** (40 ± 3) %

Conditioning time

24 h. ambient conditions at (35 ± 0.5) °C and (40 ± 3) % RH

Uncertainty

± 7% of the result

Number of test specimens per material to be tested

Tested 3

Disposition test specimens

The inner face is in contact to the measurement surface.

Reference	Specimen	Water vapour resistance Ret (m ² ·Pa/W)
2023CN1080-S01.14	1	409.06
	2	407.32
	3	405.04
	Average	407.14

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.14	SLEEVES YELLOW ASSEMBLY AS NEW



RESULTS

DETERMINATION OF RESISTANCE TO WATER PENETRATION

Standard

EN 20811:1992

Equipment

Hydrostatic Head Tester

Atmosphere for conditioning

Temperature (20 ± 2) °C **Relative Humidity** (65 ± 4) %

Water temperature

20°C

Rate of increase of water pressure

(10±0.5) cm H₂O/min ((980±50) Pa/min)

Surface exposed

External face

Manometer precision

± 0,5 cm H₂O

Reference

2023CN1080-S01.4_P1

Test date

Start date 21/12/2023 **End date** 02/01/2024
Reference

Atmosphere for testing

Specimen	Temperature	Relative Humidity	
	(20.0± 2) °C		(65.0 ± 4) %
	Pressure (cm/H ₂ O)	Pressure (Pa)	Less pressure (Pa)
1	>200	>20000	>20000
2	>200	>20000	
3	>200	>20000	
4	>200	>20000	

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.4_P1	SEAMS AFTER WASH



RESULTS

SEAM TENSILE RESISTANCE

Standard

EN ISO 13935-2:2014

Number of test specimens per material to be tested

Tested 5 **Rejected** 0

Gauge length

Warp:100 mm

Weft:100 mm

The break of the seam is produced for:

Broken sewing threads

Reference

2023CN1080-S01.4_P1

Test date

Start date 21/12/2023 **End date** 22/01/2024

Atmosphere for testing

Temperature (20.0± 2) °C **Relative Humidity** (65.0 ± 4) %

Specimen	Seam strength (N)
1	271.12
2	340.85
3	263.5
4	280.8
5	254.97
Average	282.25
C.V.	12.09

Uncertainty

± 6% assay value of the measured

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.4_P1	SEAMS AFTER WASH



RESULTS

COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING

Standard

EN ISO 105-C06:2010

Test date**Start date**

22/01/2024

End date

22/01/2024

Equipment

Gyrowash

Test number

A1M

Temperature

(40)°C

Steel balls

10

Washing powder

Standardized ECE soap reference without optical or chemical whitener



Reference

2023CN1080-S01.5

Change in colour	Staining	
5	Cotton 4-5	Polyester 4-5

Reference

2023CN1080-S01.8

Change in colour	Staining	
5	Cotton 4-5	Polyester 4-5

Reference

2023CN1080-S01.9

Change in colour	Staining	
5	Cotton 4-5	Polyester 4-5

Reference

2023CN1080-S01.10

Change in colour	Staining	
5	Cotton 4-5	Polyester 4-5

Reference

2023CN1080-S01.11

Change in colour	Staining	
5	Cotton 4-5	Polyester 4-5

Reference

2023CN1080-S01.12

Change in colour	Staining	
5	Cotton 4-5	Polyester 4-5

Reference

2023CN1080-S01.13

Change in colour	Staining	
5	Cotton 4-5	Polyester 4-5

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.5	EXTERNAL YELLOW FABRIC AS NEW
2023CN1080-S01.8	BLACK TAFFETA
2023CN1080-S01.9	GREY FLEECE LINING
2023CN1080-S01.10	NAVY FABRIC AS NEW
2023CN1080-S01.11	GREY FABRIC AS NEW



Reference	Description
2023CN1080-S01.12	EXTERNAL ORANGE FABRIC AS NEW
2023CN1080-S01.13	EXTERNAL RED FABRIC AS NEW



RESULTS

DETERMINATION OF BREAKING STRENGTH AND ELONGATION

Standard

EN ISO 1421:2016

Equipment

INSTRON Dynamometer

Conditioned date

Start date 19/12/2023 **End date** 10/1/2024

Test date

Start date 19/12/2023 **End date** 10/01/2024

Gauge length

Pretension

Gauge speed

Warp: 200 mm

Warp: 0.5 N

Warp: 100 mm/min

Weft: 200 mm

Weft: 0.5 N

Weft : 100 mm/min

Atmosphere for conditioning

Temperature (20 ± 2) °C **Relative Humidity** (65 ± 4) %

Number of test specimens per material to be tested

Tested 2 **Rejected** 0

State of the specimens

Conditioned

Reference

2023CN1080-S01.5

Direction	Maximum force (N)	Elongation to the maximum load (%)
Warp	1351	29
	1313	26
Weft	1154	24
	1213	26,5

Uncertainty

± 5% assay value of the measured

Note

The test procedure described in the two versions of the Standard (EN ISO 1421:1998 and EN ISO 1421:2016) is the same.

Deviation of the standard

Two samples test to check.

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.5	EXTERNAL YELLOW FABRIC AS NEW



RESULTS

DETERMINATION OF TEAR RESISTANCE

Standard

EN ISO 4674-1:2016 Met.A

Equipment

INSTRON Dynamometer

Test date

Start date 19/12/2023 **End date** 22/01/2024

Conditioned date

Start date 19/12/2023 **End date** 23/01/2024

Atmosphere for conditioning

Temperature (20 ± 2) °C **Relative Humidity** (65 ± 5) %

State of the specimens

Conditionated

Number of test specimens per material to be tested

Tested 2 **Rejected** 0

Procedure

Method A

Specimen size

(200x150) mm

Reference

2023CN1080-S01.5

Tear	Specimen (N)
Lengthwise	79.2
	83.4
Cross-cutting	73.8
	77.8

Deviation of the standard

Two samples test to check.

The test was carried out at laboratory located at Carretera Banyeres s/n - 03802 Alcoi, Alicante

Reference	Description
2023CN1080-S01.5	EXTERNAL YELLOW FABRIC AS NEW



RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Standard

EN ISO 20471:2013+EN ISO 20471:2013+Amd1:2016

Equipment

Optronik rms 10 retroreflectometer

Test date

Start date 19/12/2023 **End date** 22/12/2023

Light lamp

CIE standard Illuminant A

Measurement distance

A=15m
B=16m

To determine the retroreflection coefficient is considered

$\epsilon_1 = 0^\circ$ vertical retroreflective strips.
 $\epsilon_2 = 90^\circ$ Horizontal retroreflective strips.

Deviation of the standard

Test was carried out as result verification only at Observation / Entrance angles 12' / 5°

Reference

2023CN1080-S01.7

Sample size

100 cm²

Measurement distance

A

Observation angle Entrance angle	Position	Result (cd/lx·m ²)
12' / 5°	$\epsilon_1 = 0^\circ$ vertical	396.9
12' / 5°	$\epsilon_2 = 90^\circ$ horizontal	400.2

Uncertainty

±2% of the value measured

Reference	Description
2023CN1080-S01.7	SILVER TAPE



Lucia Martinez
Head of PPE and Ballistics department



Date: 02/02/2024 10:02:53

Digitally Signed by: ISABEL LLOPIS LUMBRERAS -

NIF: 21678551Q

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