TEST REPORT

Report No.: 66.430.26.3839.01

Dated: 2026-08-17

中国认可
国际互认
检测
TESTING
CNAS L7038

Applicant:	Treck S.A.
Address:	Avenida Santa Rosa 5220 San Joaquin, Santiago, Chile
Contact Person:	Jacqueline Li
Sample Submitted:	The Sample(s) and Its (Their) Information(s) Was (Were) Submitted by Applicant and Identified. A. Hi-vis Yellow/Navy polo shirt (the whole garment) - size XS - 1 piece B. Hi-vis Orange/Navy polo shirt (the whole garment) - size XS - 1 piece
Sample Description:	116-20-350 Polera Pique Activex Dry Fit HV-100 C&116-20-351 Polera Pique Activex Dry Fit HV-100 C
Colour:	Hi-vis Yellow/Navy & Hi-vis Orange/Navy
Style No.:	116-20-350&116-20-351
Product Specification:	

Model	116-20-350	116-20-351
Size range	XS-3XL	
Retroreflective tape	Retroreflective tape, HC-009	Retroreflective tape, HC-009
Front 1	Fluorescent Yellow fabric, 55% Polyester 45% Cotton, HY-21-Y	Fluorescent Orange fabric, 55% Polyester 45% Cotton, HY-21-O
Front 2	Navy fabric, 55% Polyester 45% Cotton, HY-21-N	Navy fabric, 55% Polyester 45% Cotton, HY-21-N
Back 1	Fluorescent Yellow fabric, 55% Polyester 45% Cotton, HY-21-Y	Fluorescent Orange fabric, 55% Polyester 45% Cotton, HY-21-O
Back 2	Navy fabric, 55% Polyester 45% Cotton, HY-21-N	Navy fabric, 55% Polyester 45% Cotton, HY-21-N
Collar	Navy knitted fabric	Navy knitted fabric
Button	Plastic button	Plastic button

Care Label Provided:



Sample Received Date:	2026-07-20
Date of Testing:	2026-07-27 to 2026-08-10
Test Result(s):	Refer to the Section 3 and 4

Note:
(1) Each order is subject to acceptance of our General Terms and Conditions and the TÜV SÜD Testing, Certification, Validation and Verification Regulation, in the version valid at the time the contract is concluded. For full version of above both documents, please visit the link to view.
(2) The results in this report are relevant only to the sample(s) tested.
(3) The test report shall not be reproduced except in full without the written approval of the laboratory.
(4) Disclaimer Measurement Uncertainty:
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019 or CNAS-GL015:2022.
(5) The testing report without CMA stamp is not legally binding and could only be used as internal reference material for the applicant. It shall not be provided as a notarial certification.

Laboratory:
TÜV SÜD Certification and Testing (China) Co., Ltd. Xiamen Branch
Testing Location: Xiamen
Form No.: TC_XMN_F_24.04 E Rev:03
Effective Date:2024-10-23

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1. Test Sample Photo(s)

Sample A
Front



Back



Sample B
Front



Back



2. Identification of The Test Subject

Sample	Description	Remark
001	Fluorescent Yellow fabric, 55% Polyester 45% Cotton, HY-21-Y (front 1&back 1)	Semi-Product (A)
002	Fluorescent Orange fabric, 55% Polyester 45% Cotton, HY-21-O (front 1&back 1)	Semi-Product (B)
003	Navy fabric, 55% Polyester 45% Cotton, HY-21-N (front 2&back 2)	Semi-Product (A/B)
004	Navy knitted fabric (collar)	Semi-Product (A/B)

3. Conclusion

No.	Test Parameter(s)	Conclusion
1.	Types and Classes	Class 1
2.	Specific Design Requirements for Garments Covering Torso and Arms	Pass
3.	Colour Performance of New Material	Pass
4.	Colour after Xenon Test	Pass
5.	Colour after Washing	Pass
6.	Colour Fastness to Rubbing	Pass
7.	Colour Fastness to Perspiration	Pass
8.	Colour Fastness to Laundry	Pass
9.	Colour Fastness to Hot Pressing	Pass
10.	Bursting Strength of Knitted Materials	Pass
11.	Water Vapour and Thermal Resistance	Pass
12.	Design	Pass
13.	Comfort	Pass
14.	Dimensional Change Due to Cleaning	Pass
15.	General Size Designation	Pass

Notes: Pass = Meet Requirement
= No Comment
N/A = Not Applicable
Fail = Below Requirement
- = Did Not Perform

Remark: (1) Samples are tested as received

TÜV SÜD Certification and Testing (China) Co., Ltd. Xiamen Branch

Reviewed by:

Stacey Yang
Softlines Department

Approved by:

Damon Zheng
Softlines Department

4. Test Result(s)

4.1 Types and Classes (EN ISO 20471:2013+A1:2016 Clause 4.1)

Sample	Size	Dimension	Parameters	Results	Requirement	Classification
B	XS	½ Chest: 51.0 cm Back length: 69.3 cm	Background material	0.454 m^2	*	Class 1
			Retroreflective material	0.236 m^2		
			Combined performance material	-		
			Background material on the front part	167.3 %	≥ 40%^	Pass
			Background material on the back part	156.6 %		

Remark: ^ = This requirement is defined by the number of RfU: PPE-R/28-009

* =

Material	Class 3 garments	Class 2 garments	Class 1 garments
Background material	0.80 m^2	0.50 m^2	0.14 m^2
Retroreflective material	0.20 m^2	0.13 m^2	0.10 m^2
Combined performance material	n. a.	n. a.	0.20 m^2

4.2 Specific Design Requirements for Garments Covering Torso and Arms (EN ISO 20471:2013+A1:2016 Clause 4.2.2)

Sample	Results	Requirement	Conclusion
B	Comply	The background material shall encircle the torso and the sleeves and shall maintain a minimum width (height) of 50 mm. Interruptions by retroreflective stripes are not counted. Bands of retroreflective material shall be at least 50 mm wide.	Pass
	Comply	Garments covering the torso and arms shall have one or more bands of retroreflective material encircling the torso with a maximum inclination of ± 20° to the horizontal and bands of retroreflective material joining the torso band from the front to the back over each shoulder. The bottom of the lowest torso band shall be at least 50 mm above the bottom edge. If more than one horizontal band is applied, the horizontal bands shall be at least 50 mm apart. Alternatively, garments covering torso and arms shall have two or more bands of retroreflective material at least 50 mm apart and encircling the torso with a maximum inclination of ± 20° to the horizontal. The bottom of the lowest torso band shall be at least 50 mm above the bottom edge.	Pass
	Comply	If a sleeve blocks a clear view of a horizontal torso band, then the sleeve shall be encircled by a retroreflective band. If it is a long sleeve (1/1 arm) garment, the sleeve shall be encircled by two bands of retroreflective material at least 50 mm apart. If a sleeve blocks a clear view of two horizontal torso bands, then the sleeve shall be encircled with two retroreflective bands at least 50 mm apart with the lower band at least 50 mm above the sleeve edge. Testing regarding the clear view shall be done by visual inspection while moving the arm in all positions.	Pass
	Comply	Any gap (for fastening systems and seams) in the lengthwise continuity of each band of retroreflective or combined performance material shall not be greater than 50 mm, measured parallel to the direction of the band, and the total of such gaps shall not be greater than 100 mm in any one band around the torso and 50 mm around the sleeves.	Pass

4.3 Colour Performance of New Material (EN ISO 20471:2013+A1:2016 Clause 5.1 & 7.2)

Sample	Parameters	Results	Requirement	Conclusion
001	Chromaticity coordinates, x	0.380	*	Pass
	Chromaticity coordinates, y	0.548		
	Luminance factor, β	0.97		

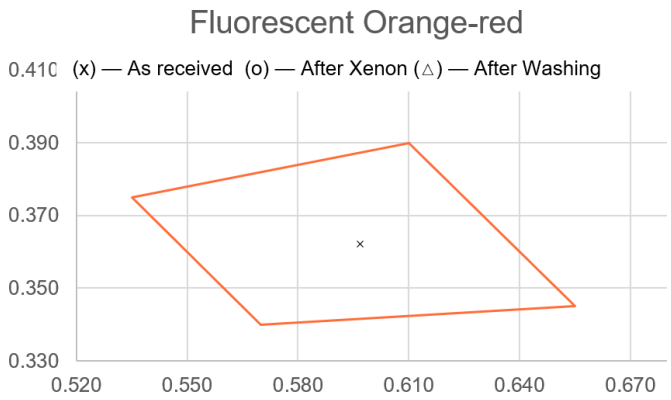


Remark: * =

Colour	Chromaticity coordinates (x, y)		Minimum luminance factor (β_{min})
Fluorescent yellow	0.387	0.610	0.70
	0.356	0.494	
	0.398	0.452	
	0.460	0.540	
Fluorescent orange - red	0.610	0.390	0.40
	0.535	0.375	
	0.570	0.340	
	0.655	0.345	
Fluorescent red	0.655	0.345	0.25
	0.570	0.340	
	0.595	0.315	
	0.690	0.310	

4.3 Colour Performance of New Material (EN ISO 20471:2013+A1:2016 Clause 5.1 & 7.2)

Sample	Parameters	Results	Requirement	Conclusion
002	Chromaticity coordinates, x	0.597	*	Pass
	Chromaticity coordinates, y	0.362		
	Luminance factor, β	0.43		



Remark: * =

Colour	Chromaticity coordinates (x, y)		Minimum luminance factor (β_{min})
Fluorescent yellow	0.387	0.610	0.70
	0.356	0.494	
	0.398	0.452	
	0.460	0.540	
Fluorescent orange - red	0.610	0.390	0.40
	0.535	0.375	
	0.570	0.340	
	0.655	0.345	
Fluorescent red	0.655	0.345	0.25
	0.570	0.340	
	0.595	0.315	
	0.690	0.310	

4.4 Colour after Xenon Test (EN ISO 20471:2013+A1:2016 Clause 5.2 & 7.2)

Xenon test method: ISO 105-B02:1994, Method 3

Sample	Parameters	Results	Requirement	Conclusion
001	Chromaticity coordinates, x	0.380	*	Pass
	Chromaticity coordinates, y	0.541		
	Luminance factor, β	0.93		



Remark:

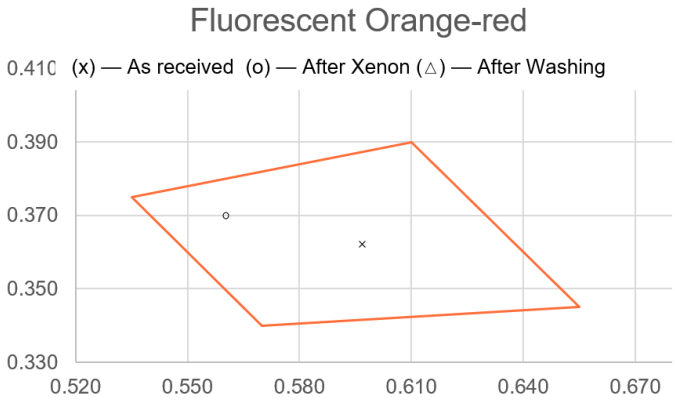
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Colour	Chromaticity coordinates (x, y)		Minimum luminance factor (β_{min})
Fluorescent yellow	0.387	0.610	0.70
	0.356	0.494	
	0.398	0.452	
	0.460	0.540	
Fluorescent orange - red	0.610	0.390	0.40
	0.535	0.375	
	0.570	0.340	
	0.655	0.345	
Fluorescent red	0.655	0.345	0.25
	0.570	0.340	
	0.595	0.315	
	0.690	0.310	

4.4 Colour after Xenon Test (EN ISO 20471:2013+A1:2016 Clause 5.2 & 7.2)

Xenon test method: ISO 105-B02:1994, Method 3

Sample	Parameters	Results	Requirement	Conclusion
002	Chromaticity coordinates, x	0.560	*	Pass
	Chromaticity coordinates, y	0.370		
	Luminance factor, β	0.48		



Remark:

*=

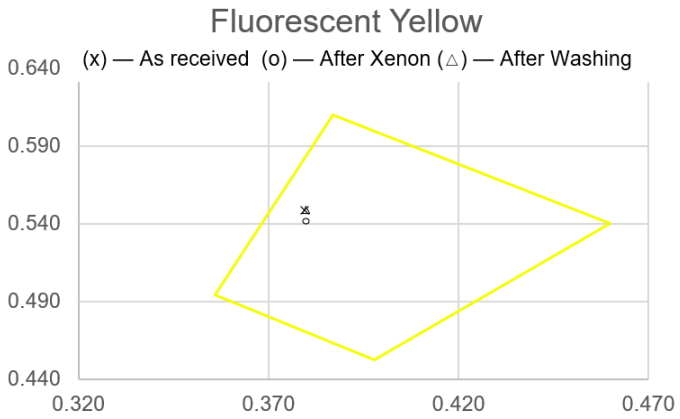
Colour	Chromaticity coordinates (x, y)		Minimum luminance factor (β_{min})
Fluorescent yellow	0.387	0.610	0.70
	0.356	0.494	
	0.398	0.452	
	0.460	0.540	
Fluorescent orange - red	0.610	0.390	0.40
	0.535	0.375	
	0.570	0.340	
	0.655	0.345	
Fluorescent red	0.655	0.345	0.25
	0.570	0.340	
	0.595	0.315	
	0.690	0.310	

4.5 Colour after Washing (EN ISO 20471:2013+A1:2016 Clause 7.2 & 7.5.1 & 7.5.2)

Washing test method: ISO 6330:2021 (Domestic laundering)

Washing cycles: 5 cycles

Sample	Parameters	Results	Requirement	Conclusion
001	Chromaticity coordinates, x	0.380	*	Pass
	Chromaticity coordinates, y	0.549		
	Luminance factor, β	0.97		



Remark: Procedure No.:3N; Using horizontal axis, front-loading type machine: Machine wash at 30°C with 2kg total dry mass [Type III (100% polyester) ballast + specimen] and "ECE(A)" detergent + sodium perborate + TAED. Flat dry.

* =

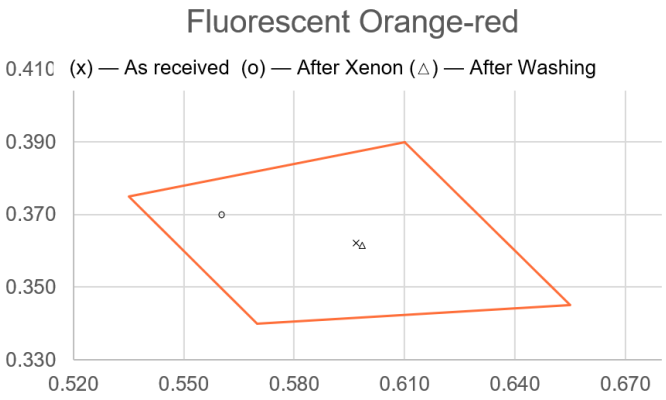
Colour	Chromaticity coordinates (x, y)		Minimum luminance factor (β_{min})
Fluorescent yellow	0.387	0.610	0.70
	0.356	0.494	
	0.398	0.452	
	0.460	0.540	
Fluorescent orange - red	0.610	0.390	0.40
	0.535	0.375	
	0.570	0.340	
	0.655	0.345	
Fluorescent red	0.655	0.345	0.25
	0.570	0.340	
	0.595	0.315	
	0.690	0.310	

4.5 Colour after Washing (EN ISO 20471:2013+A1:2016 Clause 7.2 & 7.5.1 & 7.5.2)

Washing test method: ISO 6330:2021 (Domestic laundering)

Washing cycles: 5 cycles

Sample	Parameters	Results	Requirement	Conclusion
002	Chromaticity coordinates, x	0.599	*	Pass
	Chromaticity coordinates, y	0.362		
	Luminance factor, β	0.43		



Remark: Procedure No.:3N; Using horizontal axis, front-loading type machine: Machine wash at 30°C with 2kg total dry mass [Type III (100% polyester) ballast + specimen] and “ECE(A)” detergent + sodium perborate + TAED. Flat dry.

* =

Colour	Chromaticity coordinates (x, y)		Minimum luminance factor (β_{min})
Fluorescent yellow	0.387	0.610	0.70
	0.356	0.494	
	0.398	0.452	
	0.460	0.540	
Fluorescent orange - red	0.610	0.390	0.40
	0.535	0.375	
	0.570	0.340	
	0.655	0.345	
Fluorescent red	0.655	0.345	0.25
	0.570	0.340	
	0.595	0.315	
	0.690	0.310	

4.6 Colour Fastness to Rubbing (EN ISO 20471:2013+A1:2016 Clause 5.3.1, ISO 105-X12:2016)

Sample	Parameters	Results (Grade)	Requirement	Conclusion
001	Dry	4-5	≥ 4 Grade	Pass
002	Dry	4-5	≥ 4 Grade	Pass
003	Dry	4-5	≥ 4 Grade	Pass
004	Dry	4-5	≥ 4 Grade	Pass

4.7 Colour Fastness to Perspiration (EN ISO 20471:2013+A1:2016 Clause 5.3.2, ISO 105-E04:2013)

Sample	Parameters		Results (Grade)		Requirement	Conclusion
			Acid	Alkaline		
001	Colour Change		4-5	4-5	≥ 4 Grade	Pass
	Colour Staining	Acetate	4-5	4-5	/	
		Cotton^	4-5	4-5	≥ 4 Grade	
		Polyamide	4	4	/	
		Polyester^	4-5	4-5	≥ 4 Grade	
		Acrylic	4-5	4-5	/	
		Wool	4-5	4-5	/	
002	Colour Change		4-5	4-5	≥ 4 Grade	Pass
	Colour Staining	Acetate	4-5	4-5	/	
		Cotton^	4-5	4-5	≥ 4 Grade	
		Polyamide	4-5	4-5	/	
		Polyester^	4-5	4-5	≥ 4 Grade	
		Acrylic	4-5	4-5	/	
		Wool	4-5	4-5	/	
003	Colour Change		4-5	4-5	/	Pass
	Colour Staining	Acetate	4-5	4-5	/	
		Cotton^	4-5	4-5	≥ 4 Grade	
		Polyamide	4-5	4-5	/	
		Polyester^	4-5	4-5	≥ 4 Grade	
		Acrylic	4-5	4-5	/	
		Wool	4-5	4-5	/	
004	Colour Change		4-5	4-5	/	Pass
	Colour Staining	Acetate	4-5	4-5	/	
		Cotton	4-5	4-5	/	
		Polyamide	4-5	4-5	/	
		Polyester^	4-5	4-5	≥ 4 Grade	
		Acrylic	4-5	4-5	/	
		Wool	4-5	4-5	/	

Remark: ^=Select only the fibre corresponding to the fibres of the fluorescent material and non-fluorescent material.

4.8 Colour Fastness to Laundry (EN ISO 20471:2013+A1:2016 Clause 5.3.3, ISO 105-C06:2010)

Sample	Parameters		Results (Grade)	Requirement	Conclusion
001	Colour Change		4-5	≥ 4-5 Grade	Pass
	Colour Staining	Acetate	4-5	/	
		Cotton^	4-5	≥ 4 Grade	
		Polyamide	4	/	
		Polyester^	4-5	≥ 4 Grade	
		Acrylic	4-5	/	
		Wool	4-5	/	
002	Colour Change		4-5	≥ 4-5 Grade	Pass
	Colour Staining	Acetate	4-5	/	
		Cotton^	4-5	≥ 4 Grade	
		Polyamide	4-5	/	
		Polyester^	4-5	≥ 4 Grade	
		Acrylic	4-5	/	
		Wool	4-5	/	
003	Colour Change		4-5	/	Pass
	Colour Staining	Acetate	4-5	/	
		Cotton^	4-5	≥ 4 Grade	
		Polyamide	4-5	/	
		Polyester^	4-5	≥ 4 Grade	
		Acrylic	4-5	/	
		Wool	4-5	/	
004	Colour Change		4-5	/	Pass
	Colour Staining	Acetate	4-5	/	
		Cotton	4-5	/	
		Polyamide	4-5	/	
		Polyester^	4-5	≥ 4 Grade	
		Acrylic	4-5	/	
		Wool	4-5	/	

Remark: Test No.: A2S, Machine wash at 30 °C with 4g/l 'ECE(B)' detergent and 1g/l Sodium perborate solution with 10 steel balls.
^ = Select only the fibre corresponding to the fibres of the fluorescent material and non-fluorescent material.

4.9 Colour Fastness to Hot Pressing (EN ISO 20471:2013+A1:2016 Clause 5.3.3, ISO 105-X11:1994)

Test procedure: Dry pressing/Dry

Hot pressing temperature: 120 °C

Sample	Parameters		Results (Grade)	Requirement	Conclusion
001	Immediately	Colour Change	4-5	≥ 4-5 Grade	Pass
	After 4 hours	Colour Change	4-5	≥ 4-5 Grade	
		Colour Staining	4-5	≥ 4 Grade	
002	Immediately	Colour Change	4-5	≥ 4-5 Grade	Pass
	After 4 hours	Colour Change	4-5	≥ 4-5 Grade	
		Colour Staining	4-5	≥ 4 Grade	
003	Immediately	Colour Change	4-5	/	Pass
	After 4 hours	Colour Change	4-5	/	
		Colour Staining	4-5	≥ 4 Grade	
004	Immediately	Colour Change	4-5	/	Pass
	After 4 hours	Colour Change	4-5	/	
		Colour Staining	4-5	≥ 4 Grade	

4.10 Bursting Strength of Knitted Materials (EN ISO 20471:2013+A1:2016 Clause 5.5.2, ISO 13938-1:2019)

Test area: 7.3 cm^2

Sample	Results (kPa)	Requirement	Conclusion
001	512	≥ 200 kPa	Pass

4.11 Water Vapour and Thermal Resistance (EN ISO 20471:2013+A1:2016 Clause 5.6)

Test method: ISO 11092:2014

Sample	Parameters	Results	Requirement	Conclusion
001	Water vapour resistance, R_{et}	3.4 m^2·Pa/W	≤ 5 m^2·Pa/W	Pass

Remark: Water-vapour resistance: Air temperature and temperature of hotplate: 35.0±0.1°C. Relative humidity: 40±3%, Air speed: 1.0±0.05 m/s. Fabric back side is in contact with hotplate.

4.12 Design (EN ISO 13688:2013+A1:2021 Clause 4.3 & Annex C)

Sample	Results		Requirement	Conclusion
A	Clothing free from harmful features	Yes	Protective clothing should be inspected manually and visually to ensure it is free from any sharp or hard edges, protruding wire ends, rough surfaces or other items on the inner or outer surface of the clothing that are likely to cause harm to the user or others.	Pass
	Protective clothing, putting on, taking off and fit	Yes	The ease of putting on and removing the clothing with or without assistance as is appropriate for the type of clothing.	Pass
		Yes	The clothing should not be too tight for comfort and deep breathing is not restricted and there is no blood flow restriction anywhere.	Pass
		Yes	The clothing design at, for example the armholes and crotch, to check they are appropriately proportioned and positioned.	Pass
		Yes	Using simple practical tests, the assessor should check whether the information supplied by the manufacturer is sufficiently clear, complete and accurate so that users may be expected to use the clothing correctly and avoid any hazardous errors in using the product.	Pass
	Operation of closures, adjustment and restraint systems	Yes	The adequacy of the range of adjustments available	Pass
		Yes	The ease of operation and the security of closures and adjusters	Pass
		Yes	Whether the closures, adjusters and restraint systems appear strong enough to withstand the forces to which they are likely to be exposed to during body movements and the tasks for which the protective clothing is intended.	Pass
	Coverage of the area intended to be protected, coverage maintained during movements	Yes	The adequacy of coverage of any specified protection zones by protective material or special constructions	Pass
		Yes	That coverage is maintained during movements as extreme as it is anticipated a user would make.	Pass
	Freedom of movement	Yes	Standing, sitting, walking and stair climbing	Pass
		Yes	Raising both hands above the head	Pass
		Yes	Bending over and picking up a small object such as a pencil.	Pass
		Yes	The arms and legs of the clothing should not be so long that they interfere with hand and foot movements.	Pass
		Yes	The clothing should not be so loose that it flaps about or moves independently and inconveniently.	Pass
		Yes	There should not be points at which unexpected and unintended gaps open up between or within components of the clothing.	Pass
		Yes	There should not be any unreasonable restriction of movement at any joint.	Pass
	Compatibility with other PPE from the same manufacturer	NA	Protective clothing that is normally worn as part of an ensemble should be compatible with representative examples of the rest of that ensemble.	-
		Yes	Putting on and removing other items of PPE such as gloves and boots should be possible without difficulty.	Pass
	NA		Where applicable, protective clothing design shall take into account other items of protective clothing or equipment from the same manufacturer which must be worn to form an overall protective ensemble. When two or more items are worn together, they should be compatible and each one shall comply with its own standard. None of them has to reduce the performance of the other item(s) and the appropriate level of protection should be provided at interface areas between those products, for example in sleeve to glove, trousers to footwear, hood and respirator combinations. There may be other combinations.	-

Remark: NA= Not Applicable

4.13 Comfort (EN ISO 13688:2013+A1:2021 Clause 4.4)

Sample	Results	Requirement	Conclusion
A	Yes	Protective clothing shall provide users with a level of comfort consistent with the level of protection required against the hazard which is present, the ambient conditions, the level of the user's activity, and the anticipated duration of use of the protective clothing.	Pass
	Yes	Shall not have rough, sharp or hard surfaces that irritate or injure the user	Pass
	Yes	Shall not be so tight, loose and/ or heavy so that it restricts normal movement	Pass
	NA	Protective clothing that imposes significant ergonomic burdens such as heat stress, or is inherently uncomfortable because of the need to provide adequate protection, Shall be accompanied in the information supplied by the manufacturer by specific advice or warnings. Specific advice on the appropriate duration for continuous use of the clothing in the intended application(s) shall be given.	-

Remark: NA= Not Applicable

4.14 Dimensional Change Due to Cleaning (EN ISO 13688:2013+A1:2021 Clause 5.3)

Washing test method: ISO 5077:2007/ ISO 3759:2011/ ISO 6330:2021
Washing cycles: 5 cycles

Sample	Parameters	Results			Requirement	Conclusion
		Original (cm)	After washing (cm)	Rate of change (%)		
A	Front length from high point shoulder	56.5	55.6	-1.6	Knit and Nonwovens: ± 5%	Pass
	Centre back length	67.5	66.7	-1.2		
	Sleeve length	58.6	58.0	-1.0		
	Chest	99.6	99.4	-0.2		
	Collar length	46.2	46.0	-0.4		
	Hem	99.8	99.2	-0.6		
	Across shoulder	40.0	40.0	0.0		
	Armhole	50.2	50.0	-0.4		

Remark: Procedure No.: 3N; Using horizontal axis, front-loading type machine: Machine wash at 30 °C with 2 kg total dry mass (type III (100% polyester) ballast + specimen) and “ECE(A)” detergent +sodium perborate + TAED. Flat dry.
(+) Means Growth, (-) Means shrinkage

4.15 General Size Designation (EN ISO 13688:2013+A1:2021 Clause 6)

Sample	Size	Parameters	Results	Requirement	Conclusion
A	XS	Protective clothing type	Jacket / Coat / Vest / Coverall	*	Pass
		Chest or Bust girth	Present		
		Height	Present		

Remark: *=

Protective clothing	Control dimensions (ranges expressed as cm or kg)
Jacket, Coat, Vest	Chest or Bust girth and Height
Trousers	Waist or Hip girth and Height
Coverall	Chest or Bust girth and height
Aprons	Chest or Bust girth, Waist girth and Height
Protective equipment (e.g. knee pads, back protectors, torso protector)	Select the relevant measurement: - Chest or Bust girth, Waist girth and Height - Knee girth - Body weight - Waist to waist over the shoulder length

-- END OF THE TEST REPORT --