

CERTIFICATE OF TEST

Certificate of test nº

22EP7274

AITEX declares that the articles:

Given by the company:

"TAPE REF.- XM-6011"

Information supplied by the customer:

Tape reference: XM-6011

Composition and percentage: 100% Cotton, N/A

Color: Silver

Others (if any) 369

XM TEXTILES EUROPE UAB

Darius ir Gireno st. 42A Office 509

LT-02189

Vilnius

Complies with the requirements of the standard/s:

EN 469:2020. PROTECTIVE CLOTHING FOR FIREFIGHTERS. PERFORMANCE REQUIREMENTS FOR PROTECTIVE CLOTHING FOR FIREFIGHTING ACTIVITIES

6.2.1.1 Limited flame spread. Method A – Index 3 – (x 60 washing cycles)

6.2.6 Visibility

SECTION	TEST	REQUISITES	RESULTS	REPORT No.
6.2.6.4	Photometric performance requirements for retroreflective material after heat resistance 180°C	According EN ISO 20471:2013/A1:2016 ≥ 100 (cd/m ² ·lx)	Pass	2022EP7273
6.2.6.3	Photometric performance requirements for retroreflective material as new	Table 4 point 6.1, 6.2.2 EN ISO 20471:2013/A1:2016	Pass	2022EP7273

EN ISO 20471:2013/A1:2016. HIGH VISIBILITY CLOTHING. TEST METHODS AND REQUIREMENTS

SECTION	TEST	RESULTS	REQUIREMENTS	REPORT No.
7.3	Photometric performance requirements for retroreflective material as new	PASS	Table 4 point 6.1, 6.2.2 EN ISO 20471:2013/A1:2016	2022EP7273

Remark: washing instructions according to Standard EN ISO 15797:2018, 60 washing cycles at 75°C and type A drying (tumble dryer).

Complies with the requirements of the standard/s:

2022EP7273

Issued by AITEX on: 09/06/2022.

This document is of application for the tested sample, according to the tests that have been done in the previously mentioned dates in the reports above shown. This does not implies any monitoring or control activity on this product done by AITEX.

This document is a test summary and does not imply a product certification.

Signed by: Raquel Muñoz González
Manager Innovation Area

CERTIFICATE OF TEST

Certificate of test nº

24EP1843

AITEX declares that the articles:

Given by the company:

"XM-6011"

Information supplied by the customer:

Reference tape: XM-6011

Composition and percentage: 100% Cotton, FR

Color: Silver

Others: 590

XM TEXTILES POLSKA SP. Z O. O.

16 WOLNOŚCIOWA

PL-95-200

Pabianice

Complies with the requirements of the standard/s:

EN ISO 11612:2015. PROTECTIVE CLOTHING. CLOTHING TO PROTECT AGAINST HEAT AND FLAME.

	TEST	RESULTS	REQUIREMENTS	REPORT No.
Clause 6.2.1	Heat resistance (180)°C after 50 washing cycles	PASS	No ignite, no melt and no shrink by more than 5%	2024EP1842
Clause 6.3	Limited flame spread after 50 washing cycles (Procedure A)	A1	No specimen must ignite toward the top or toward the edges No specimen shall give hole formation of 5 mm or greater in any direction No specimen shall give flaming or molten debris The afterflame time is ≤ 2 s The afterglow time is ≤ 2 s	2024EP1842

Remark: Washing instructions according to Standard EN ISO 15797:2018, table 4, procedure 2 and A type drying (tumble drying).

The test results above indicated are shown in the testing report:

2024EP1842

Rev. 1.

*This revision
cancels and
replaces the
previous*

Issued by AITEX on: 17/05/2024.

This document is of application for the tested sample, according to the tests that have been done in the previously mentioned dates in the reports above shown. This does not implies any monitoring or control activity on this product done by AITEX.

This document is a test summary and does not imply a product certification.

Signed by: Lucía Martínez
Head of PPE and Ballistic
department

CERTIFICATE OF TEST

Certificate of test nº

23EP2895

AITEX declares that the articles:

Given by the company:

"XM-6011"

XM Textiles Europe UAB

According to information supplied by the customer:
Reflective tape ref. XM-6011
Composition and percentage 100% Cotton, N/A
Color Silver
Others (if any) 468

Darius ir Gireno st. 42A Office 509
LT-02189
Vilnius

Complies with the requirements of the standard/s:

EN ISO 20471:2013+EN ISO 20471:2013+AMD1:2016. HIGH VISIBILITY CLOTHING. TEST METHODS AND REQUIREMENTS

TEST	RESULTS	REQUIREMENTS				REPORT No.
		5°	20°	30°	40°	
Clause 6.1 Retroreflective performance of new material	PASS	12'	330	290	180	2023EP2658
		20'	250	200	170	
		1°	25	15	12	
		1°30'	10	7	5	
Clause 7.4.1 Retroreflective performance after abrasion	PASS	12'/5°	≥ 100 (cd/m ² .lx)			2023EP2658
Clause 7.4.2 Retroreflective performance after flexing	PASS	12'/5°	≥ 100 (cd/m ² .lx)			2023EP2658
Clause 7.4.3 Retroreflective performance after folding at cold temperatures	PASS	12'/5°	≥ 100 (cd/m ² .lx)			2023EP2658
Clause 7.4.4 Retroreflective performance after temperature variation	PASS	12'/5°	≥ 100 (cd/m ² .lx)			2023EP2658
Clause 7.4.5 Retroreflective performance after rainfall	PASS	12'/5°	≥ 100 (cd/m ² .lx)			2023EP2658
Clause 7.5.2 Retroreflective performance after 50 washing cycles ⁽¹⁾	PASS	12'/5°	≥ 100 (cd/m ² .lx)			2023EP2120
Clause 7.5.3 Retroreflective performance after 30 dry cleaning cycles ⁽²⁾	PASS	12'/5°	≥ 100 (cd/m ² .lx)			2023EP2658

⁽¹⁾Remark: Washing instructions according to Standard EN ISO 15797:2018, table 4, procedure 2 and A drying (tumble drying).

⁽²⁾Remark: Washing instructions according to Standard EN ISO 3175-2:2018.

The test results above indicated are shown in the testing report:

2023EP2120 + 2023EP2658

Issued by AITEX on: 13/06/2023 + 11/07/2023.

This document is of application for the tested sample, according to the tests that have been done in the previously mentioned dates in the reports above shown. This does not implies any monitoring or control activity on this product done by AITEX. This document is a test summary and does not imply a product certification.

Signed by: Lucía Martínez
Head of PPE and Ballistic
department

Certificate of Compliance

Certificate Number:

20241008-MH66144

Report Reference:

MH66144-20230410

Issue Date:

2024-10-08

Issued to:

XM TEXTILES USA LLC

17350 STATE HIGHWAY 249 STE 220 # 12586

HOUSTON, TX, 77064-1132, US

This certificate confirms that representative samples of:

Component – Flame-Resistant Clothing for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire, and High-visibility Safety Apparel.

Refer to Page 2 of this Certificate for UL Recognized Products

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Refer to Page 2 of this Certificate for Applicable Standards

Additional Information:

See UL Product iQ® at <https://iq.ulprospector.com> for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



David Piecuch

UL Mark Certification Program Owner



Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact UL Solutions Customer Service at <https://www.ul.com/contact-us>.

Certificate of Compliance

Certificate Number: 20241008-MH66144

Report Reference: MH66144-20230410

Issue Date: 2024-10-08

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Certified Reflective Striping:

Model	Description	Laundering Type (# Cycles)
XM-6005B	Continuous Retroreflective Silver Trim	Domestic (50X)
XM-6005B Pro	Continuous Retroreflective Silver Trim	Domestic (50X)
XM-6007C Pro	Continuous Retroreflective Silver Heat-Sealed Trim	Domestic (50X)
XM-6011	Continuous Retroreflective Silver Trim	Domestic (50X)
XM-6023-TT Pro	Continuous Yellow-Green Fluorescent Surface with Retroreflective Silver Stripe in the Center	Domestic (50X)
XM-8011	Continuous Retroreflective Silver Heat-Sealed Trim	N/A
XM-8011C Segmented	Segmented Retroreflective Silver Heat-Sealed Trim	Domestic (50X)
XM-8011C Pro Segmented	Segmented Retroreflective Silver Heat-Sealed Trim	Domestic (50X)

The Reflective Striping materials described in this report have been tested to meet the standards as follows:

Model	NFPA 2112	ANSI/ISEA 107	CSA Z96
XM-6005B	-	X	X
XM-6005B Pro	-	X	X
XM-6007C Pro	-	X	X
XM-6011	X	X	X
XM-6023-TT Pro	-	X	X
XM-8011	X	-	-
XM-8011C Segmented	X	X	X
XM-8011C Pro Segmented	-	X	X

The Reflective Striping materials described in this report are UL Certified to the following Standards per the above Standard Matrix:

Standard	Title	Edition
NFPA 2112	Standard on Flame-Resistant Clothing for Protection of Industrial Personnel Against Short-Duration Thermal Exposures from Fire	2023
ANSI/ISEA 107	American National Standard for High-Visibility Safety Apparel	2020
CSA Z96	Standard on High-Visibility Safety Apparel	2022



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