

2023EP0208

TEST REPORT

DATE OF RECEPTION

Date Format: dd/MM/yyyy 24/01/2023

DATE OF TESTS

Starting : 31/01/2023

Ending: 21/02/2023

APPLICANT

XM Textiles Europe UAB
 Dariaus ir Gireno st. 42A Office 509
 LT-02189 Vilnius

Lithuania

Att CERTIFICATION TEAM

REFERENCE OF SAMPLES

Reference by AITEX	Reference by customer	AITEX sample description
2023EP0208-S01	POSEIDON-245	Woven fabric

TESTS CARRIED OUT

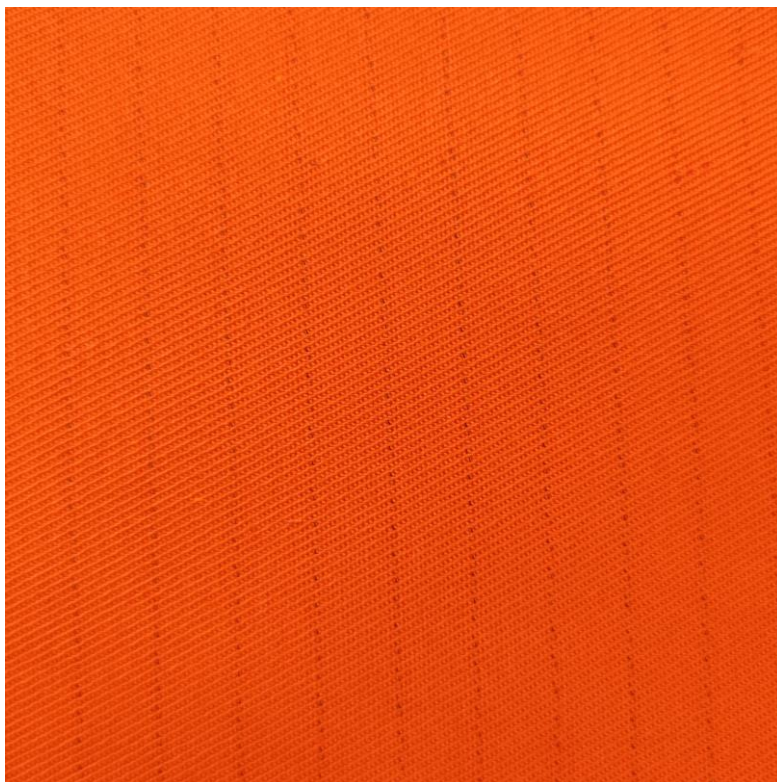
- PRE-TREATMENT FOR INDUSTRIAL WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING
- LIMITED FLAME SPREAD
- DETERMINATION THE pH VALUE OF AQUEOUS EXTRACT

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





DESCRIPTION OF SAMPLES



Reference by AITEX: 2023EP0208-S01

Reference by customer:

POSEIDON-245

AITEX sample description:

Woven fabric.
Color: Orange.

Information supplied by the customer

Fabric ref. Poseidon-245
Composition and percentage 80% Cotton, 19% Polyester, 1% Antistatic, FR-Twill 2/2
Weight 245 gsm
Color Orange
Others (if any) 440

AITEX Subsamples	Subsample Description
2023EP0208-S01.1	Woven fabric - AFTER WASH 100 cycles



EXECUTIVE SUMMARY

	Reference	Test/Standard	Result
EN ISO 11612:2015	2023EP0208-S01+ 2023EP0208-S01.1	LIMITED FLAME SPREAD EN ISO 15025:2016 Met.A	A1
		LIMITED FLAME SPREAD EN ISO 15025:2016 Met.B	A2
	Reference	Test/Standard	Result
EN ISO 13688:2013	2023EP0208-S01	DETERMINATION THE pH VALUE OF AQUEOUS EXTRACT EN ISO 3071:2020	PASS



REQUIREMENT SUMMARY

LIMITED FLAME SPREAD

REQUIREMENT ACCORDING EN ISO 11612:2015

- No specimen shall permit any part of the lowest boundary of any flame to reach the upper or either vertical edge
- No specimen shall give flaming or molten debris
- The afterglow time of each sample shall be ≤ 2 s. Any afterglow shall not spread from the carbonised area to the undamaged area after the cessation of flaming.
- For Method A, no specimen shall give hole formation of 5 mm or greater in any direction.
- The after flame time of each sample shall be ≤ 2 s

DETERMINATION THE pH VALUE OF AQUEOUS EXTRACT

REQUIREMENT ACCORDING EN ISO 13688:2013

In accordance with Standard EN ISO 13688:2013, the pH value shall be greater than 3.5 and less than 9.5



RESULTS

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

Standard

EN ISO 15797:2018

Washing procedure

Table 4, procedure 2

Washing cycles

100

Washing temperature

75°C

Drying procedure

A (tumble drying) - Industrial dryer 13010I12

Drying temperature

70°C

Washing powder

Detergent without brightener 13075N12

Reference

2023EP0208-S01

Test date

Start date

31/01/2023

End date

15/02/2023

Dry mass of the samples (Kg)	Counterweight mass (Kg)	Counterweight type	Equipment
0.3	12.2	COTTON / POLYESTER	INDUSTRIAL WASHING MACHINE 2 13073E12



RESULTS

LIMITED FLAME SPREAD

Standard

EN ISO 15025:2016 Met.A

Equipment

Equipment for determination of limited flame spread 13008IE12

Test date

Start date	31/01/2023	End date	02/02/2023
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Conditioned date

Start date	31/01/2023	End date	02/02/2023
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Conditioned

24h in indoor ambient conditions at (20 ± 2) °C and (65 ± 5) % RH

Gas used

Propane gas

Face exposed to the flame

Outer



Reference

2023EP0208-S01

Atmosphere for testing

Temperature

19.9 °C

Relative Humidity

33.4 %

Direction	Warp			Weft		
Flaming to top or either side edge	NO	NO	NO	NO	NO	NO
Post- After flame (s)	0	0	0	0	0	0
Afterglow time (s)	0	0	0	0	0	0
Melting	NO	NO	NO	NO	NO	NO
Loose waste	NO	NO	NO	NO	NO	NO
Inflammation of the filter paper detached from waste	NO	NO	NO	NO	NO	NO
Hole formation	NO	NO	NO	NO	NO	NO

Reference

2023EP0208-S01.1

Atmosphere for testing

Temperature

20.2 °C

Relative Humidity

34.4 %

Direction	Warp			Weft		
Flaming to top or either side edge	NO	NO	NO	NO	NO	NO
Post- After flame (s)	0	0	0	0	0	0
Afterglow time (s)	0	0	0	0	0	0
Melting	NO	NO	NO	NO	NO	NO
Loose waste	NO	NO	NO	NO	NO	NO
Inflammation of the filter paper detached from waste	NO	NO	NO	NO	NO	NO
Hole formation	NO	NO	NO	NO	NO	NO

Uncertainty

The uncertainty of the assay of limited flame spread is $\pm 2\%$ of the value measured



RESULTS

LIMITED FLAME SPREAD

Standard

EN ISO 15025:2016 Met.B

Equipment

Equipment for determination of limited flame spread 13008IE12

Test date

Start date	31/01/2023	End date	02/02/2023
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Conditioned date

Start date	31/01/2023	End date	02/02/2023
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Conditioned

24h in indoor ambient conditions at (20 ± 2) °C and (65 ± 5) % RH

Gas used

Propane gas

Face exposed to the flame

Edge: Hemmed fabric specimen



Reference

2023EP0208-S01

Atmosphere for testing

Temperature

22.7 °C

Relative Humidity

32.1 %

Direction	Warp			Weft		
Flaming to top or either side edge	NO	NO	NO	NO	NO	NO
Post- After flame (s)	0	0	0	0	0	0
Afterglow time (s)	0	0	0	0	0	0
Melting	NO	NO	NO	NO	NO	NO
Loose waste	NO	NO	NO	NO	NO	NO
Inflammation of the filter paper detached from waste	NO	NO	NO	NO	NO	NO

Reference

2023EP0208-S01.1

Atmosphere for testing

Temperature

23.5 °C

Relative Humidity

38.6 %

Direction	Warp			Weft		
Flaming to top or either side edge	NO	NO	NO	NO	NO	NO
Post- After flame (s)	0	0	0	0	0	0
Afterglow time (s)	0	0	0	0	0	0
Melting	NO	NO	NO	NO	NO	NO
Loose waste	NO	NO	NO	NO	NO	NO
Inflammation of the filter paper detached from waste	NO	NO	NO	NO	NO	NO

Uncertainty

The uncertainty of the assay of limited flame spread is $\pm 2\%$ of the value measured



RESULTS

DETERMINATION THE pH VALUE OF AQUEOUS EXTRACT

Standard

EN ISO 3071:2020

Determination date

01/02/2023

Extractor solution

KCl

pH Extractor solution

6.35

Temperature

(19.5)°C

Reference	pH	Uncertainty
2023EP0208-S01	5.10	±5%



Lucia Martinez
Head of PPE and Ballistics department



Date: 23/02/2023 11:23:10

Digitally Signed by: ISABEL LLOPIS LUMBRERAS -

NIF: 21678551Q

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