



Fabric name	Cosmo-200
Fabric weight	200 ± 5 gsm
Composition	67% polyester, 27% viscose, 6% spandex
Full width	150 ± 2 cm
Weave	twill 2/1
Finishes	-
Area of use	Beauty and Health industry
Washing instruction	

Physical properties*

			warp	weft
1	Tensile strength, N	ISO 13934-1:2013	1000	970
2	Tearing strength, N	ISO 13937-3:2000	41	57
3	Dimensional Stability To Washing, max.	ISO 6330:2000	3.0%	3.0%
4	Abrasion Resistance	ISO 12947-2:2002	> 80 000	
5	Pilling Resistance (after 1000 rev.)	ISO 12945-2:2000	4	
6	Colour Fastness To Washing (cotton+polyester) 60°C, min.	ISO 105-C06:2010		
	Colour change	ISO 105-C06:2010	5	
	Colour staining	ISO 105-C06:2010	4-5	
7	Colour Fastness To Perspiration, min.	ISO 105-E04:2013		
	Colour change		4-5	
	Colour staining		4-5	
8	Colour Fastness To Rubbing, min.	ISO 105-X12:2001		
	Dry		4-5	
	Wet		4	
9	Colour Fastness To Light	ISO 105-B02:2013	> 6	

* The values shown are indicative and may vary slightly from batch to batch.

www.xmtextiles.com

XM TEXTILES EUROPE

Darius ir Gireno st. 42A, Room 509
Vilnius, LT-02189, Lithuania
Tel. +370 52 078 703
info@xmtextiles.com

XM TEXTILES ROMANIA

Sos.Tamasi 20, Hala 6B, Parter,
Buftea, 070000, Ilfov, Romania
Tel. +40 31 630 3639
info@xmtextiles.com

XM TEXTILES ITALIA SRL

Via dei Notai, Blocco 23, Centergross,
40050 Funo di Argelato (BO), Bologna, Italy
Tel. +39 051 952 8202
info@xmtextiles.com

Test Report

SL52405275006101TX

Date: March 26, 2024 Page 1 of 4

SHANGHAI XM GROUP LTD

ROOM 2403, ZHONGYI INTERNATIONAL BUILDING, NO.1833, ZHONGSHAN NORTH ROAD, SHANGHAI

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Woven fabric (COSMO -200 67% poly/27% visc, 6% sp 32S+40D*150D+40D TWILL 2/1 Color: Ash Pink #22-21 Order XM-24-030-WWP)

Sample Color : (A)Ash Pink #22-21

Proposed Care Instruction :



Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Mar 20, 2024

Testing Period : Mar 20, 2024 - Mar 26, 2024

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd

Sara Guo

Sara Guo (Account Executive)



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Softline Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

www.sgsgroup.com.cn
sgs.china@sgs.com

Test Result

Dimensional Stability To Washing

(ISO 3759:2011/ISO 5077:2007/ISO 6330:2021; Using horizontal axis, front-loading type machine; Procedure No.4N, Machine Wash At 40°C; with 2.0±0.2kg total dry mass (Type III (100% Polyester) Ballast+ Specimen) and 20±1 g ECE reference detergent 98 without optical brightener, Tumble Dry Low, Not Exceeding 60°C, Warm Iron.)

After 5 Washes

	Unit	A
-		
Lengthwise	%	-1.3
Widthwise	%	-0.4

Remark: (+)Means Growth; (-)Means Shrinkage

Colour Fastness To Washing

(ISO 105-C06:2010; Test No.: A2S, Machine wash at 40°C with 4g/L ECE (B) and 1g/L Sodium Perborate with 10 Steel Balls)

	Unit	A
-		
Change in Shade	Grade	4-5
Staining On Multi-fibre Stripe		
Acetate	Grade	4-5
Cotton	Grade	4-5
Polyamide	Grade	4-5
Polyester	Grade	4-5
Acrylic	Grade	4-5
Wool	Grade	4-5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.

Colour Fastness To Rubbing

(ISO 105-X12:2016; Size of rubbing finger: 16mm dia.)

As Received

	Unit	A
-		
Dry Staining	Grade	4-5
Wet Staining	Grade	4-5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-TESTING SERVICES (SHANGHAI) CO., LTD.
Inspection & Testing Services
Softline Laboratory

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

www.sgsgroup.com.cn
sgs.china@sgs.com

Pilling Resistance

(ISO 12945-2:2000; Martindale Abrasion & Pilling Tester, Total load applied 415g)

As Received

After 125 Revolutions

-	Unit	A
Pilling Rating	-	4

After 500 Revolutions

-	Unit	A
Pilling Rating	-	4

After 1000 Revolutions

-	Unit	A
Pilling Rating	-	3-4

After 2000 Revolutions

-	Unit	A
Pilling Rating	-	3

After 5000 Revolutions

-	Unit	A
Pilling Rating	-	2-3

After 7000 Revolutions

-	Unit	A
Pilling Rating	-	2

Remarks : Pilling Rating

- 5 No change
- 4 Slight change fuzzing and/or partially formed pills
- 3 Moderate change fuzzing and/or moderate pilling, pills of varying size and density partially covering the specimen surface
- 2 Distinct surface fuzzing and/or distinct pilling, pills of varying size and density covering a large proportion of the specimen surface
- 1 Dense surface fuzzing and/or severe pilling, pills of varying size and density covering the whole of the specimen surface



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

SGS-CSTC (Shanghai) Co., Ltd.
Softline Laboratory

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

www.sgsgroup.com.cn
sgs.china@sgs.com

Sample Photo



End of Report

Scan to see the report



SL52405275006101TX

Verification:
check.sgsonline.com.cn



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

SGS-CTC (Shanghai) Co., Ltd.
Inspection & Testing Services
Softline Laboratory

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

www.sgsgroup.com.cn
sgs.china@sgs.com

Report No.: 244462033a 001
Client: SHANGHAI XM GROUP LTD
Contact Information: Office 2403, 24th Floor, Zhongyi International Commercial Plaza, 1833
Zhongshan North Road, Shanghai, China
Contact Person: Jing wang

Sample Description as Declared:

No. Of Sample : One (1)
Fibre Content : 67% polyester, 27% viscose, 6% spandex
Material : (COSMO-200, 67% polyester, 27% viscose, 6% spandex, Order: XMT-22-216
-HHT-LT)
Order : XMT-22-216-HHT-LT
Colour : Bordo

**Applicant's Provided
Care Instruction/Label:**



Sample obtaining method: Sending by customer
Condition at delivery: Test item complete and undamaged.
Sample Receiving date: 2022-11-14
Testing Period: 2022-11-14 to 2022-11-17
Place of testing: Textiles laboratory Shanghai

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.

2022-11-18

Carmen Yan / Department Manager

Date

Name / Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

Test Report No.: 244462033a 001

Page 2 of 5

Summary of Test Result(s):

Test parameter	Result	Failed Material No.
Dimensional Change To Washing	No Comment	-
Colour Fastness To Rubbing	No Comment	-
Colour Fastness To Washing	No Comment	-

Material List:

Material No.	Material	Color	Location
M001	Textile	Bordo	Woven fabric

Test Report No.: 244462033a 001

Page 3 of 5

1. Dimensional Change To Washing

Test method : ISO 3759:2011 / ISO 6330:2021 / ISO 5077:2007

Apparatus : Front-loading horizontal rotating drum type

Test condition : Washing programme 4N, at 40°C, with 20g Non-phosphate detergent 3, 2kg
loading, tumble dry - delicateM001RequirementAfter five washes

-

Warp -1.5%

Weft -0.3%

Remark : (+) = Extension
(-) = Shrinkage**2. Colour Fastness To Rubbing**

Test method : ISO 105-X12:2016

M001RequirementDry

-

- Length 4

- Width 4

Wet

-

- Length 2-3

- Width 2-3

Test Report No.: 244462033a 001

Page 4 of 5

3.Colour Fastness To Washing

Test method : ISO 105-C06:2010

Test condition : A2S, 30 min mechanical wash at 40°C in 0.4% ECE reference detergent with phosphates and 0.1% sodium perborate with 10 steel balls

	<u>M001</u>	<u>Requirement</u>
Colour change	4	-
Colour staining		-
- Acetate	3-4	
- Cotton	4-5	
- Polyamide	3-4	
- Polyester	4	
- Acrylic	4-5	
- Wool	4	

Test Report No.: 244462033a 001

Page 5 of 5

Sample Photo



- END -

SHANGHIA XM GROUP LTD

ROOM 2403, ZHONGYI INTERNATIONAL BUILDING, NO.1833, NORTH ZHONGSHAN ROAD, SHANGHAI

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Woven fabric (COSMO -200 poly/viscose/spandex 32S+40D*150D+40D
TWILL 2/1 Color: Caramel #23-28 Order XM-24-084-WWP)

Sample Color : (A)Caramel #23-28

Retest : No

Proposed Care Instruction :



Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : May 15, 2024

Testing Period : May 15, 2024 - May 20, 2024

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd

Sara Guo

Sara Guo (Account Executive)



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Softline Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

www.sgsgroup.com.cn
sgs.china@sgs.com

Test Result

Dimensional Stability To Washing

(ISO 3759:2011/ISO 5077:2007/ISO 6330:2021; Using horizontal axis, front-loading type machine; Procedure No.4N, Machine Wash At 40°C; with 2.0±0.2kg total dry mass (Type III (100% Polyester) Ballast+ Specimen) and 20±1 g ECE reference detergent 98 without optical brightener, Tumble Dry Low, Not Exceeding 60°C, Warm Iron)

After 5 Washes

-	Unit	A
Lengthwise	%	-1.2
Widthwise	%	-0.6

Remark: (+)Means Growth; (-)Means Shrinkage

Colour Fastness To Washing

(ISO 105-C06:2010; Test No.: A2S, Machine wash at 40°C with 4g/L ECE (B) and 1g/L Sodium Perborate with 10 Steel Balls, Not adjusted)

-	Unit	A
Change in Shade	Grade	4-5
Staining On Multi-fibre Stripe		
Acetate	Grade	3-4
Cotton	Grade	4-5
Polyamide	Grade	3-4
Polyester	Grade	4
Acrylic	Grade	4-5
Wool	Grade	4-5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

SGS-CTC (Shanghai) Co., Ltd.
Softline Laboratory

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

www.sgsgroup.com.cn
sgs.china@sgs.com

Pilling Resistance

(ISO 12945-2:2000; Martindale Abrasion & Pilling Tester, Total load applied 415g)

As Received

After 125 Revolutions

-	Unit	A
Pilling Rating	-	4

After 500 Revolutions

-	Unit	A
Pilling Rating	-	4

After 1000 Revolutions

-	Unit	A
Pilling Rating	-	3-4

After 2000 Revolutions

-	Unit	A
Pilling Rating	-	3

After 5000 Revolutions

-	Unit	A
Pilling Rating	-	2-3

After 7000 Revolutions

-	Unit	A
Pilling Rating	-	2-3

Remarks : Pilling Rating

- 5 No change
- 4 Slight change fuzzing and/or partially formed pills
- 3 Moderate change fuzzing and/or moderate pilling, pills of varying size and density partially covering the specimen surface
- 2 Distinct surface fuzzing and/or distinct pilling, pills of varying size and density covering a large proportion of the specimen surface
- 1 Dense surface fuzzing and/or severe pilling, pills of varying size and density covering the whole of the specimen surface



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

SGS CSTC (Shanghai) Technical Service Co., Ltd.
Softline Laboratory

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

www.sgsgroup.com.cn
sgs.china@sgs.com

Sample Photo



End of Report

Scan to see the report



SL52405299851801TX

Verification:
check.sgsonline.com.cn



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@sgs.com

SGS-CTC (China) Technical Service (Shanghai) Co., Ltd.
Softline Laboratory

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666
t (86-21) 61402666

f (86-21) 64958763
f (86-21) 64958763

www.sgsgroup.com.cn
sgs.china@sgs.com

TEST REPORT

2023EP4679

DATE OF RECEPTION

Date Format: dd/MM/yyyy 11/12/2023

DATE TESTS

Starting: 13/12/2023

Ending: 09/01/2024

APPLICANT

XM TEXTILES POLSKA SP. Z O. O.
16 WOLNOŚCIOWA
PL-95-200 Pabianice
Poland

Att. Irina Danilova

IDENTIFICATION AND DESCRIPTION OF SAMPLES

Reference by AITEX	Reference by customer	AITEX sample description
2023EP4679-S01	COSMO-200	Woven fabric

TESTS CARRIED OUT

- PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING.
- DETERMINATION OF BREAKING STRENGTH AND ELONGATION.
- DETERMINATION OF TEAR RESISTANCE.
- DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING.
- ABRASION RESISTANCE.
- COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING.
- COLOUR FASTNESS TO PERSPIRATION.
- COLOUR FASTNESS TO RUBBING.
- COLOUR FASTNESS TO LIGHT.
- DETERMINATION OF FABRIC PROPENSITY TO SURFACE PILLING, FUZZING OR MATTING.

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



**DESCRIPTION OF SAMPLES**

Reference by AITEX: 2023EP4679-S01

Reference by customer:

COSMO-200

AITEX sample description:

Dark navy woven fabric.

Information supplied by the customer

Fabric ref. COSMO-200

Weight 200 GSM

Color Dark Navy #22-07

Others (if any) 542

Composition provided by the customer:

67%Polyester/27%Viscose/6%Spandex, Twill 2/1

AITEX Subsamples		Subsample Description
2023EP4679-S01_P1		Woven fabric - AFTER WASH 5 cycles



RESULTS

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

Standard

EN ISO 6330:2021

Test date**Start date**

03/01/2024

End date

04/01/2024

Washing procedure

6N

Washing temperature

60°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

2023EP4679-S01

Units	Dry mass of the samples(Kg)	Counterweight mass Kg <i>kg</i>	Counterweight type	Equipment
1	0.05	1.95	Type III / <i>Type III</i>	WASCATOR

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

Reference	Description
2023EP4679-S01	COSMO-200



RESULTS

DETERMINATION OF BREAKING STRENGTH AND ELONGATION

Standard

EN ISO 13934-1:2013

Equipment

INSTRON Dynamometer

Conditioned date

Start date	13/12/2023	End date	2/1/2024
-------------------	------------	-----------------	----------

Test date

Start date	13/12/2023	End date	02/01/2024
-------------------	------------	-----------------	------------

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	5	Rejected	0
---------------	---	-----------------	---

State of the specimens

Conditioned

Reference

2023EP4679-S01

Direction	Maximum force (N)	Medium strength	C.V.	Elongation to the maximum load(%)	Average elongation	C.V.
Warp	1000	1000	1,9	51	51,5	1
	1000			52		
	990			50,5		
	1000			51,5		
	1000			51		
Weft	960	970	1,2	67,5	68	1,7
	970			69,5		
	990			68,5		
	990			68		
	960			67		

Uncertainty

± 5% assay value of the measured

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

Reference	Description
2023EP4679-S01	COSMO-200



RESULTS

DETERMINATION OF TEAR RESISTANCE

Standard

EN ISO 13937-2:2000

Equipment

INSTRON Dynamometer

Test date**Start date** 13/12/2023 **End date** 02/01/2024**Conditioned date****Start date** 13/12/2023 **End date** 2/1/2024**Atmosphere for conditioning****Temperature** (20 ± 2) °C **Relative Humidity** (65 ± 4) %**Number of test specimens per material to be tested****Tested** 5 **Rejected** 0**Reference**

2023EP4679-S01

Tear	Specimen (N)	Average load	Classification value (N)	C.V.	
Warp	39.5	41	39.5	2,8	
	42.1				
	40.9				
	40.9				
	39.5				
Weft	57.8	57		39.5	10,1
	64.6				
	50.4				
	56.5				
	56.2				

Uncertainty

±3.9% assay value of the measured

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

Reference	Description
2023EP4679-S01	COSMO-200



RESULTS

DETERMINATION OF DIMENSIONAL CHANGE IN WASHING AND DRYING

Standard

EN ISO 5077:2008

Preparation, marking and measuring of fabric specimens according to EN ISO 3759:2011**Start date** 13/12/2023 **End date** 04/01/2024**Washing cycles**

5

Uncertainty $\pm 0.4 \%$ **Reference**

2023EP4679-S01_P1

Specimen	Direction	Dimensional change (%)
1	WARP	-3.0
	WEFT	-1.0

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

Reference	Description
2023EP4679-S01_P1	Woven fabric - AFTER WASH 5 cycles



RESULTS

ABRASION RESISTANCE

Standard

EN ISO 12947-2:2016

Equipment

Martindale Abrasimeter

Test date**Start date** 13/12/2023**End date** 09/01/2024**Conditioned date****Start date** 13/12/2023**End date** 9/1/2023**Atmosphere for conditioning****Temperature** (20 ± 2) °C**Relative Humidity** (65 ± 4) %**Abrasive Material**

Rubbing against SM-25 abradant fabric

Test pressure

12 KPa

End point

Two broken threads

Reference

2023EP4679-S01

Specimen	Nº of cycles
1	80000
2	80000
3	80000
Lowest individual result	80000

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

Reference	Description
2023EP4679-S01	COSMO-200



RESULTS

COLOUR FASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING

Standard

EN ISO 105-C06:2010

Test date**Start date**

03/01/2024

End date

03/01/2024

Equipment

Gyrowash

Test number

C1M

Temperature

(60)°C

Steel balls

50

Washing powder

Standardized ECE soap reference without optical or chemical whitener

Reference

2023EP4679-S01

Change in colour	Staining	
5	Polyester 4	Viscose 4-5

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

Reference	Description
2023EP4679-S01	COSMO-200



RESULTS

COLOUR FASTNESS TO PERSPIRATION

Standard

EN ISO 105-E04:2013

Equipment

Perspirometer

Test date**Start date**

02/01/2024

End date

02/01/2024

Alkaline solution

Reference	Staining ratio		Change in colour
2023EP4679-S01	Polyester	Viscose	5
	4-5	4-5	

Acid Solution

Reference	Staining ratio		Change in colour
2023EP4679-S01	Polyester	Viscose	5
	4-5	4-5	

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

Reference	Description
2023EP4679-S01	COSMO-200



RESULTS

COLOUR FASTNESS TO RUBBING

Standard

EN ISO 105-X12:2016

Equipment

Crockmeter

Test date**Start date**

13/12/2023

End date

02/01/2024

Atmosphere for conditioning**Temperature** $(20 \pm 2) ^\circ\text{C}$ **Relative Humidity** $(65 \pm 2) \%$ **Conditioning time**

> 4 H

Pin

Cylindrical

Applied force $(9 \pm 0,2) \text{ N}$

Reference	Direction	Dry staining	Wet Staining
2023EP4679-S01	Warp	4-5	2-3
	Weft	4-5	2-3

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

Reference	Description
2023EP4679-S01	COSMO-200



RESULTS

COLOUR FASTNESS TO LIGHT

Standard

EN ISO 105-B02:2014

Equipment

Xenotest 440 02423E06

Test date**Start date**

15/12/2023

End date

29/12/2023

Exposure conditions

Normal

Evaluation conditions

Illuminant D65 (Daylight)

Reference

2023EP4679-S01

Light fastness

6

Note

The fastness grade indicated comes up to:

- Depth change: More clear
- Hue change: No notes
- Brightness change: No notes

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

Reference	Description
2023EP4679-S01	COSMO-200



RESULTS

DETERMINATION OF FABRIC PROPENSITY TO SURFACE PILLING, FUZZING OR MATTING

Standard

EN ISO 12945-2:2020

Apparatus**Conditioning date**

13/12/2023

Test date

02/01/2024

Type of fabric

Woven fabric

Atmosphere for conditioning and testing**Temperature** (20±2) °C**Relative humidity** (65±4) %**N° of specimens** 3**Number of observers** 3**Testing pressure** Woven pressure 415±2 g**Testing conditions** Fabric vs fabric**Reference**

2023EP4679-S01

Pilling degree

Cycles	Specimen 1	Specimen 2	Specimen 3	Average
125	5	5	5	5
500	4-5	4-5	4-5	4-5
1000	4-5	4-5	4-5	4-5
2000	4	4	4	4
5000	3-4	3-4	3-4	3-4
7000	3-4	3-4	3-4	3-4

Fuzzing degree

Cycles	Specimen 1	Specimen 2	Specimen 3	Average
125	4-5	4-5	4-5	4-5
500	4-5	4-5	4-5	4-5
1000	4	4	4	4
2000	4	4	4	4
5000	4	4	4	4
7000	4	4	4	4

Remark

Due to the kind of no felting tissue, value of matting has not been considered.



TABLE 1 - CLASSIFICATION SCHEME PILLING	
CLASS	DESCRIPTION
5	No change
4	Slight surface pilling. Partially formed pills
3	Moderate pillings: Pills of varying size and density partially covering the specimen surface
2	Distinct pilling: Pills of varying size and density covering a large proportion of the specimen
1	Severe pilling: Pills of varying size and density covering the whole of the specimen surface

TABLE 2 - CLASSIFICATION SCHEME FUZZING	
CLASS	DESCRIPTION
5	No change
4	Slight surface fuzzing
3	Moderate surface fuzzing
2	Distinct surface fuzzing
1	Dense surface fuzzing

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

Reference	Description
2023EP4679-S01	COSMO-200

**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



Lucia Martinez
Head of PPE and Ballistics department



Date: 15/01/2024 9:28:35

Digitally Signed by: ISABEL LLOPIS LUMBRERAS -

NIF: 21678551Q

LIABILITY CLAUSES

- 1.- AITEX is liable only for the results of the methods of analysis used, as expressed in the report and referring exclusively to the materials or samples indicated in the same which are in its possession, the professional and legal liability of the Centre being limited to these. Unless otherwise stated, the samples were freely chosen and sent by the applicant.
- 2.- AITEX shall not be liable in any case of misuse of the test materials nor for undue interpretation or use of this document. AITEX laboratories do not carry out sampling.
- 3.- The Offer and / or Order to which the applicant gives approval through signature and seal, constitutes the Legally Executable Agreement in which AITEX is responsible for safeguarding and guaranteeing the absolute confidentiality of the management of all the information obtained or created during the performance of the contracted activities.
- 4.- In the eventuality of discrepancies between reports, a check to settle the same will be carried out in the head offices of AITEX. Also, the applicants undertake to notify AITEX of any complaint received by them as a result of the report, exempting this Centre from all liability if such is not done, the periods of conservation of the samples being taken into account.
- 5.- AITEX will provide at the request of the person concerned, the treatment of complaints procedure. In the event that you want to make it, direct it to: calidad@aitex.es.
- 6.- AITEX is not responsible for the information provided by customers, which is reflected in the Report, and may affect the validity of the results.
- 7.- AITEX is not responsible for an inadequate state of the sample received that could compromise the validity of the results, expressing such circumstance, in the test reports.
- 8.- AITEX may include in its reports, analyses, results, etc., any other evaluation which it considers necessary, even when it has not been specifically requested.
- 9.- When a Declaration of Conformity is requested, if not indicated otherwise, the decision rule according to ILAC-G8: 2009 will be applied with a security zone of 1U and a Probability of False Acceptance <2.5%.
- 10.- The uncertainties of tests, which are made explicit in the Results Report, have been estimated for a $k = 2$ (95% probability of coverage). If not informed, they are available to the client in AITEX.
- 11.- The original materials and rests of samples, not subject to test, will be retained in AITEX during the twelve months following the issuance of the report, so that any check or claim which, in his case, wanted to make the applicant, should be exercised within the period indicated.
- 12.- This report may only be sent or delivered by hand to the applicant or to a person duly authorised by the same.
- 13.- The results of the tests and the statement of compliance with the specification in this report refer only to the test sample as it has been analyzed / tested and not the sample / item which has taken the test sample.
- 14.- The client must attend at all times, to the dates of the realization of the tests.
- 15.- According to Resolution EA (33) 31, the test reports must include the unique identification of the sample, and any brand or label of the manufacturer may be added. It is not allowed to re-issue test reports of untested sample names (references), they can only be re-issued for error correction or inclusion of omitted data that were already available at the time of the test. The laboratory can not assume responsibility for declaring that the product with the new trade name / trademark is strictly identical to the one originally tested; This responsibility belongs to the client.
- 16.- This report may not be partially reproduced without the written approval of the issuing laboratory.
- 17.- The tests have been carried out at the Alcoy plant with the address described on the first page of the report, unless another location is indicated in the results sheet of the specific test.

Report No.: 244462041a 001
Client: SHANGHAI XM GROUP LTD
Contact Information: Office 2403, 24th Floor, Zhongyi International Commercial Plaza, 1833
Zhongshan North Road, Shanghai, China,,Hong Kong
Contact Person: Jing wang

Sample Description as Declared:

No. Of Sample : One (1)
Fibre Content : 67% polyester,27% viscose,6% spandex
Material : (COSMO-200,67% polyester,27% viscose,6% spandex,Order: XMT-22-216
-HHT-LT)
Order : XMT-22-216-HHT-LT
Colour : Black#1

**Applicant's Provided
Care Instruction/Label:**



Sample obtaining method: Sending by customer
Condition at delivery: Test item complete and undamaged.
Sample Receiving date: 2022-11-14
Testing Period: 2022-11-14 to 2022-11-17
Place of testing: Textiles laboratory Shanghai

For and on behalf of
TÜV Rheinland (Shanghai) Co., Ltd.

2022-11-18

Carmen Yan / Department Manager

Date

Name / Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.
This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.
'Decision Rule' document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

Test Report No.: 244462041a 001

Page 2 of 5

Summary of Test Result(s):

Test parameter	Result	Failed Material No.
Dimensional Change To Washing	No Comment	-
Colour Fastness To Rubbing	No Comment	-
Colour Fastness To Washing	No Comment	-

Material List:

Material No.	Material	Color	Location
M001	Textile	Black	Woven fabric

Test Report No.: 244462041a 001

Page 3 of 5

1. Dimensional Change To Washing

Test method : ISO 3759:2011 / ISO 6330:2021 / ISO 5077:2007

Apparatus : Front-loading horizontal rotating drum type

Test condition : Washing programme 4N, at 40°C, with 20g Non-phosphate detergent 3, 2kg
loading, tumble dry - delicateM001RequirementAfter five washes

Warp -1.5%

-

Weft -0.5%

-

Remark : (+) = Extension
(-) = Shrinkage**2. Colour Fastness To Rubbing**

Test method : ISO 105-X12:2016

M001RequirementDry

-

- Length 4

- Width 4

Wet

-

- Length 3

- Width 3

Test Report No.: 244462041a 001

Page 4 of 5

3.Colour Fastness To Washing

Test method : ISO 105-C06:2010

Test condition : A2S, 30 min mechanical wash at 40°C in 0.4% ECE reference detergent with phosphates and 0.1% sodium perborate with 10 steel balls

	<u>M001</u>	<u>Requirement</u>
Colour change	4	-
Colour staining		-
- Acetate	3	
- Cotton	4	
- Polyamide	3	
- Polyester	3-4	
- Acrylic	4-5	
- Wool	3-4	

Test Report No.: 244462041a 001

Page 5 of 5

Sample Photo



- END -



**STANDARD
100**

**BEWO 084394
TESTEX**

**This certificate BEWO 084394 is valid until
15.08.2025.**

SUPPORTING DOCUMENTS

- ✓ Test report : BJ015 245163.1
- ✓ Declaration of conformity in accordance with
EN ISO 17050-1 as required by OEKO-TEX®
- ✓ OEKO-TEX® Terms of Use (ToU)

A handwritten signature in blue ink, appearing to read 'M. Bachmann', positioned above a horizontal line.

Matz Bachmann
Managing Director

A handwritten signature in blue ink, appearing to read 'D. Ajdinovic', positioned above a horizontal line.

Dijana Ajdinovic
Ecology Team Leader