



INNOSHIELD Champion Series SXM99

銀織抗病毒口罩

Certifications 測試證書

1. FQ Research Antiviral Activity [SARS-COV2] RT-PCR / ISO 18184
2. WEIPU Antiviral activity [HCoV-229E] Test Method ISO18184:2019 Test Report
3. GTTC Antimicrobial Activity FZ/T73023-2006 Annex D after 500washes Test Report
4. SGS Test Method ASTM E2149-2020 Test Report
5. SGS Test Method AATCC 100 – 2012 Test Report
6. SGS Test Method JIS L1902:2015 Test Report
7. Oeko-Tex confidence in textiles standard 100 20.HUS.38197 Hohenstein Htti
8. Toxicological Risk Assessments and LHAMA Evaluation
9. Air Permeability of textile fabrics (GB/T 5453-1997) Test Report
10. EN 13758-1:2001+A1:2006 Textiles - Solar UV protective properties – Test Report
11. Flammability of Apparel Textiles ASTM D1230-17 Text Report
12. Conformity with the requirements of GB18401-2010 and FZ/T 73049-2014 Qualified Product

TEST REPORT

Date: April 6, 2021

Test fabric: Ionic+Metalized

Wash conditions: 25X wash

Requested by: Noble Biomaterials, Inc.

Address: 300 Palm St Scranton PA 19505

Test requested: % Viral Reduction by RT-PCR



Sample Name	Test items	Test method	Test instruments
Ionic+Metalized 25X wash	Antiviral Activity	RT-PCR/ISO 18184/	Step One Plus Applied Biosystems/ BSL-3

Controls

Sample ID	Viral load, Ct number and status by RT-PCR		
	Baseline t = 0 mins	Copies/ μ l	Sample viral status by RTPCR
Control virus nasopharyngeal swab (no cells or fabric) Positive control	17	80000000	Positive
Control cells infected	22	1250000	Positive
Control fabric	29	12500	Positive
Control cell culture media + saline + antibiotics (no virus) Negative control	46	58	Negative

Sample ID	Ct value	copies/ μ l	% reduction
Viral load in cell culture after t=0 mins of contact	29	12500	99.0000
Viral load in cell culture after t = 1 hr. of contact	30	6250	99.5000
Viral load in cell culture after t = 2 hrs. of contact	42	58	99.9954
Viral load diluted (10^{-3})	Ct value	copies/ μ l	% reduction
Viral load in cell culture after 0 mins of contact	44	58	99.9954
Viral load in cell culture after 10 mins of contact	40	58	99.9954
Viral load in cell culture after 30 mins of contact	38	58	99.9954
Viral load in cell culture after 1 hr. of contact	40	58	99.9954
Viral load in cell culture after 2 hrs. of contact	32	3750	99.7000

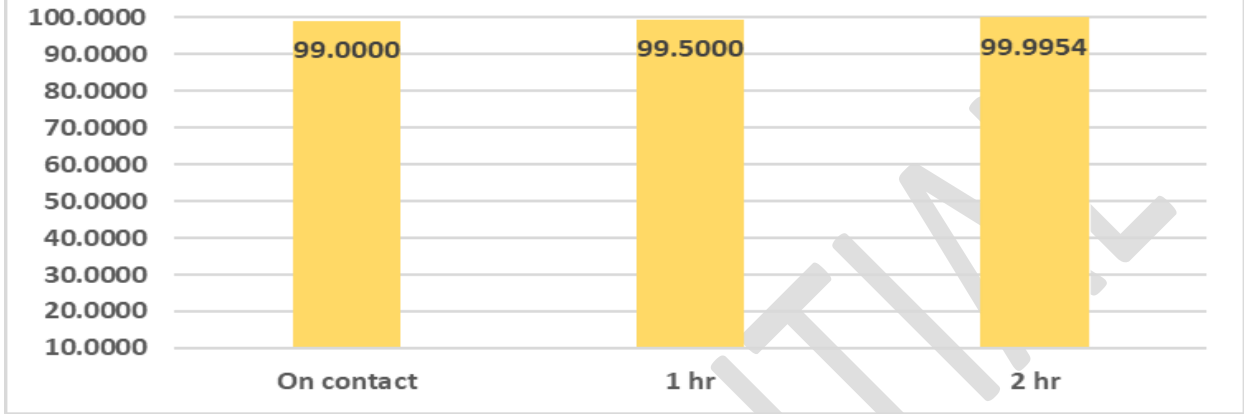
*Ct values calculated by instrument. Copies/ μ l calculated by linear regression of data

FQ Research

11460 Interchange Cir, Miramar FL 33025

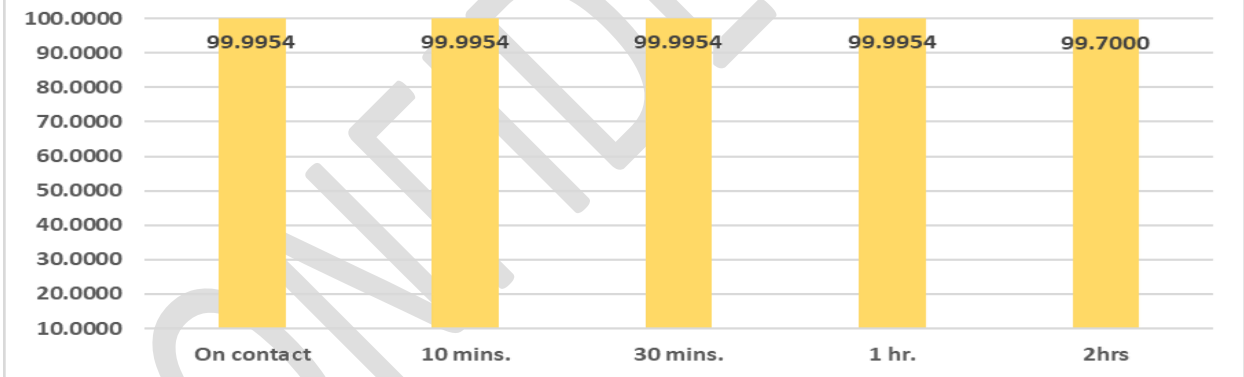
Phone: (954) 430-4424

Ionic+Metalized fabric 25X wash reduction in SARS-COV2 viral viability



*Control fabric as specified by ISO 18184

Ionic+Metalized fabric 25X wash reduction in SARS-COV2 viability for low viral loads (10⁻³)



*Control fabric as specified by ISO 18184

Approved by

Maria C. McLeod, PhD

Biochemist

Ma. Isabel Salazar, PhD

Virologist

Maria Mercedes Garcia

Lab Director

FQ Research

11460 Interchange Cir, Miramar FL 33025

Phone: (954) 430-4424

Test Report

Report No. : WP-21076249-JC-01EnR1

Sample

Origin : Customer Sample Delivery

Client : INNOTIER LIMITED

Address: 2nd Floor, Astoria House, 62 Shaftesbury Avenue, London,
England W1D 6LT, United Kingdom



Shanghai WEIPU Chemical Technology Service Co., Ltd

Test Report

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

Sample Name: INNOTIER Champion Series woven fabric with Ionic+ Metalized

Sample Description: Champion Series Anti-Viral material - INNOSHIELD - 200X wash

Type: WTN87004X

Other Information : Applicable(INNOSHIELD face mask, INNOTOUCH gloves, garments and accessories; AgDESMO garments and accessories; PPE products); Brand (INNOTIER)

Testing information:

Date of Sample Received: 2021-07-15

Testing Period: 2021-07-19~ 2021-07-30

Test Item(s): Selected test (s) as requested by client.

Test Criterion: Please refer to next page(s).

Test Result: Please refer to next page(s).

Complied by:

Yingying Shao

Approved by:

JJ Lee

Issued Date:

2021-09-30



Report No. : WP-21076249-JC-01EnR1 Page(s) : 2 / 3

Test Item(s): *Antiviral Activity 【HCoV-229E】

Test Standard and Method: ISO 18184:2019

Test Instruments: Biosafety Cabinet

Test Result(s):

Virus Types	NO	$\lg(V_{a0h})$ (lgTCID ₅₀ /mL)	$\lg(V_{b30s})$ (lgTCID ₅₀ /mL)	$\lg(V_{c30s})$ (lgTCID ₅₀ /mL)
HCoV-229E MDCK cells	1	6.31	6.28	4.43
	2	6.29	6.27	4.44
	3	6.35	6.32	4.46
Average Value of lgTCID ₅₀ /mL		6.32	6.29	4.44
Antiviral Activity Value			1.87	
Antiviral Activity Rate (%)			98.66	
Virus Types	NO	$\lg(V_{a0h})$ (lgTCID ₅₀ /mL)	$\lg(V_{b10min})$ (lgTCID ₅₀ /mL)	$\lg(V_{c10min})$ (lgTCID ₅₀ /mL)
HCoV-229E MDCK cells	1	6.37	6.34	4.41
	2	6.34	6.31	4.42
	3	6.39	6.36	4.43
Average Value of lgTCID ₅₀ /mL		6.37	6.34	4.42
Antiviral Activity Value			1.95	
Antiviral Activity Rate (%)			98.87	

End of the Page

Report No. : WP-21076249-JC-01EnR1 Page(s) : 3 / 3

Sample picture(s):



Note: This report has modified the sample name and added the sample description, sample model and other information ,and replaced the original report number: WP- 21076249-JC-01En.The original report is invalid.

End of the Report

—DECLARE—

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2. No unauthorized changes, additions or deletions shall be made to the report.
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4. Any queries on the report shall be presented to us within 15 working days after receipt of the report.
5. The results described here in this report are based on the sample(s) tested. The data and results shown in the report without CMA logo are not used as proof for society, only for internal uses.
6. The applicant takes full responsible for the truthfulness of the testing sample(s) and information related thereto.
7. Without the permission of the company, any party is prohibited from using the test results and the report for undue publicity.
8. With the permission of the client, the items with * in this report is/are subcontracted from other laboratory.

Test Report



No: 230159282M0

Verification Website: www.gttctech.com

Verification Code: PVBS-3987-34

Issue Date 签发日期: 2023-09-11

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Applicant: INNOTIER Limited
委托单位: 研路天科技有限公司
Address: 2nd Floor, Astoria House, 62 Shaftesbury Avenue, London, England W1D 6LT, United Kingdom
地址: 英國倫敦沙夫茨伯里大街62號阿斯托利亞樓2層

Information confirmed by applicant 客户认定信息:

INNOTIER Silver fabric antibacterial super reusable mask

INNOTIER银织抗菌超强可重用口罩

Quantity 数量: 3 pieces 3个

Brand 商标: INNOTIER

Model 号型规格: TXM99

Manufacturer 生产单位: 广州市凯权服饰有限公司

Basis of judgement 判定依据:

Date Received/Date Test Started: 2023-06-16

样品受理/测试开始日期: 2023-06-16

Conclusion 结论:

Antimicrobial activity

抗菌效果

Note: "M"-Meet the standard's requirement "F"-Fail to meet the standard's requirement

"---"-No comment

备注: "M" -符合标准要求 "F" -不符合标准要求

"---" -此项目不判定

Remark:

This report replaces test report 230159282 which has become invalid automatically.

本报告代替230159282报告, 同时230159282报告作废。

All the tested items are tested under the standard condition (except for indication).

本报告中检验检测项目均在相应标准规定的环境条件下进行(有注明的除外)。

Copies of the report are valid only re-stamped.

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The experiment was carried out at No.1, Zhujiang Road, Panyu District, Guangzhou, Guangdong, P.R.China.

本报告检验检测地址为广州市番禺区珠江路1号。

Approved By(签发):

刘圆 工程师

Yuan Liu Engineer

Yuan Liu



Test Report

No:230159282M0



Test Report

No:230159282M0

Antimicrobial activity 抗菌效果

(FZ/T 73023-2006 Annex D 附录D, Shake flask method 振荡法, FZ/T 73023-2006 Annex C. 4, procedure:simplified washing, 500 washings 试样经FZ/T 73023-2006 附录C. 4简化洗涤程序洗500次后)

Inhibition 抑菌率:

Staphylococcus aureus ATCC 6538

金黄色葡萄球菌 ATCC 6538

90.50%

Colon bacillus 8099 大肠杆菌 8099

82.50%

Candida albicans ATCC 10231 白色念珠菌 ATCC

10231

75.00%

Remark注: Time of shake flask was 24h. 振荡培养24h的效果。

MINOTESTER



——本报告结束(End

Page

注意事项

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Note

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4. The result is only valid for the tested sample.
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8. The report shall not be duplicated separately or partly, without prior written permission approved by GTTC, except duplicated in full version.

INNOTIER LIMITED

2ND FLOOR, ASTORIA HOUSE, 62 SHAFTESBURY AVENUE, LONDON, ENGLAND, W1D 6LT, UNITED KINGDOM

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

Sample Description : 86%POLYESTER 8%SPANDEX 6%IONIC+METALIZED CHAMPION SERIES ANTI-VIRAL MATERIAL-200 WASHES IN WHITE FOR INNOSHIED FACE MASK, INNOTOUCH GLOVES, INNOTIER GARMENTS&ACCESSORIES, AGDESMO GARMENTS&ACCESSORIES

Sample Color : (A)WHITE
 Composition : (A)86%POLYESTER 8%SPANDEX 6%IONIC+METALIZED
 End Use : (A)INNOSHIED FACE MASK, INNOTOUCH GLOVES, INNOTIER GARMENTS&ACCESSORIES, AGDESMO GARMENTS&ACCESSORIES
 Style No. : WTN87004X
 Manufacturer : GUANGZHOU JF GLOVES & GARMENT ACCESSORIES CO.,LTD
 Agent : JULIUS GROUP HOLDINGS LTD
 Supplier : JULIUS INDUSTRIES LTD (JIL)

Sample Receiving Date : Sep 27, 2021
 Testing Period : Sep 27, 2021 - Oct 07, 2021
 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).

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

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Lily Wang (Account Manager)



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Specimen No. 1_ **SGS Sample ID.** GZF21-027321.001 **Description.** Fabric_

Test Result(s) :

Test Requested : Determine the antimicrobial activity of the submitted sample in 24hour

Test Method : Refer to ASTM E 2149-2020 Determining the Antimicrobial Activity of Antimicrobial Agents Under Dynamic Contact Conditions

GZF21-027321.001

Test organism(s) Staphylococcus aureus ATCC 6538

	The number of bacteria recovered from "0h" contact time (CFU/mL)	The number of bacteria recovered from "24h" contact time (CFU/mL)
Sample (1g)	/	< 30
Inoculum only control	2.3x10 ⁵	9.6x10 ⁵
Reduction %		>99

Notes :

The reduction calculations are based on values from inoculum only control.

Sample Photo



End of Report



INNOTIER LIMITED
2ND FLOOR, ASTORIA HOUSE, 62 SHAFTESBURY AVENUE, LONDON, ENGLAND, W1D 6LT, UNITED KINGDOM

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

Sample Description : 86%POLYESTER 8%SPANDEX 6%IONIC+METALIZED CHAMPION SERIES ANTI-VIRAL MATERIAL-200 WASHES IN WHITE FOR INNOSHIED FACE MASK, INNTOUCH GLOVES, INNOTIER GARMENTS&ACCESSORIES, AGDESMO GARMENTS&ACCESSORIES

Sample Color : (A)WHITE

Composition : (A)86%POLYESTER 8%SPANDEX 6%IONIC+METALIZED

End Use : (A)INNOSHIED FACE MASK, INNTOUCH GLOVES, INNOTIER GARMENTS&ACCESSORIES, AGDESMO GARMENTS&ACCESSORIES

Style No. : WTN87004X

Manufacturer : GUANGZHOU JF GLOVES & GARMENT ACCESSORIES CO., LTD

Agent : JULIUS GROUP HOLDINGS LTD

Supplier : JULIUS INDUSTRIES LTD (JIL)

Sample Receiving Date : Sep 26, 2021

Testing Period : Sep 26, 2021 - Sep 30, 2021

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).

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

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Lily Wang (Account Manager)



Test Result

Antimicrobial activity test

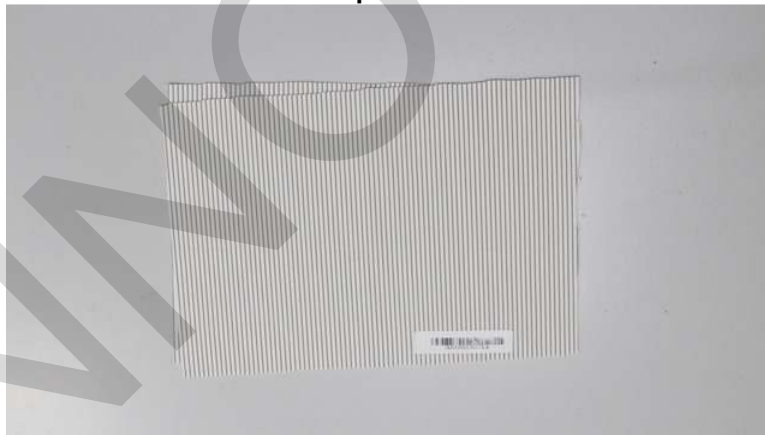
Test Method : Refer to AATCC 100-2012 Antibacterial Finishes on Textile Material: Assessment of **GZF21-027304.001**

Test organism(s)	Staphylococcus aureus ATCC 6538
Concentration of bacteria(CFU/mL)	1.3x10 ⁵
Sample -at "0H" contact time (CFU /sample)	1.2x10 ⁵
Control sample- at "0H" contact time (CFU /sample)	1.2x10 ⁵
Sample -at "24H" contact time (CFU /sample)	<100
Control sample- at "24H" contact time (CFU /sample)	3.6x10 ⁷
Reduction(%)	>99.9

Notes :

Test sample was 3 swatches of 4.8 cm diameter circular , 1 mL inoculum per trial.
The control sample is standard cotton, provided by SGS laboratory.
The sample without pre-treatment.

Sample Photo



End of Report



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INNOTIER LIMITED
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THIS REPORT CANCELS AND SUPERSEDES THE TEST REPORT NO. SL92119301792101TX DATE: 2021-09-30 ISSUED BY SGS (Guangzhou) UPDATED TEST INFORMATION.

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

Sample Description : 86%POLYESTER 8%SPANDEX 6%IONIC+METALIZED CHAMPION SERIES ANTI-VIRAL MATERIAL-200 WASHES IN WHITE FOR INNOSHIED FACE MASK, INNOTOUCH GLOVES, INNOTIER GARMENTS&ACCESSORIES, AGDESMO GARMENTS&ACCESSORIES

Sample Color : (A)WHITE

Composition : (A)86%POLYESTER 8%SPANDEX 6%IONIC+METALIZED

End Use : (A)INNOSHIED FACE MASK, INNOTOUCH GLOVES, INNOTIER GARMENTS&ACCESSORIES, AGDESMO GARMENTS&ACCESSORIES

Style No. : WTN87004X

Manufacturer : GUANGZHOU JF GLOVES & GARMENT ACCESSORIES CO., LTD

Agent : JULIUS GROUP HOLDINGS LTD

Supplier : JULIUS INDUSTRIES LTD (JIL)

Sample Receiving Date : Sep 26, 2021

Testing Period : Sep 26, 2021 - Sep 30, 2021

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).

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

Signed for and on behalf of
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Lily Wang (Account Manager)



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 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075169 e sgs.china@sgs.com

Test Result

Antibacterial Assessment for the submitted sample

Test Method : Refer to JIS L 1902:2015 Textiles-Determination of antibacterial activity and efficacy of textile products Chapter 8.1: Quantitative test (Absorption method)

GZF21-027318.001

Test organism(s)	Staphylococcus aureus ATCC 6538
Test inoculum (CFU/mL)	1.5x10 ⁵
F	2.3
logCt	6.8
logC0	4.5
G	-1.4
logTt	3.1
logT0	4.5
A*	3.7
Antibacterial activity (%)***	>99.9

Comment Pass, antibacterial efficacy can be considered full effect

Notes :

The control sample was 100% cotton standard fabric specified by JIS L 1902: 2015, provided by SGS lab.
 A*: antibacterial activity value(A=F-G);
 F: Growth value of F on the control specimens (F=logCt-logC0);
 G: Growth value of G on the test specimens (G=logTt-logT0);
 logCt: common logarithm of arithmetic average of the numbers of bacteria, obtained from three control specimens after 24 h incubation;
 logC0: common logarithm of arithmetic average of the numbers of bacteria, obtained from three control specimens immediately after incubation;
 logTt: common logarithm of arithmetic average of the numbers of bacteria, obtained from three test specimens after 24 h incubation;
 logT0: common logarithm of arithmetic average of the numbers of bacteria, obtained from three test specimens immediately after incubation.
 The testing specimens incubation time was 24 h.
 The testing measuring method was plate count method.
 * In the case of logC0> logT0, substitute logC0 for logT0.
 According to client's requirement, judge with reference to JIS L 1902: 2015.
 ***The percentage of Antibacterial activity value(%) is added by client requirement, the calculate formulation is $[(Ct-Tt)/Ct] * 100$.
 The antibacterial efficacy requirement of JIS L 1902: 2015: Effect: $2.0 \leq A < 3.0$, Full effect: $A \geq 3$.



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Sample Photo



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INNOVATION



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CERTIFICATE

The company

Noble Biomaterials, Inc.
300 Palm Street
Scranton, PA - 18505, UNITED STATES

is granted authorisation according to STANDARD 100 by OEKO-TEX® to use the STANDARD 100 by OEKO-TEX® mark, based on our test report **20.0.38197**



for the following articles:

X-STATIC®, Ionic+™, and CIRCUITEX® filament yarn and staple fiber of polyamide 6.6 metallized with high purity silver as well as Ionic+™ filament yarn and staple fiber of polyamide 6, polyester or recycled polyester; partly producing fibers accepted by OEKO-TEX® having biological active properties; produced by using materials certified according to STANDARD 100 by OEKO-TEX®.


The results of the inspection made according to STANDARD 100 by OEKO-TEX®, Annex 4, **product class I** have shown that the above mentioned goods meet the human-ecological requirements of the STANDARD 100 by OEKO-TEX® presently established in Annex 4 for baby articles.

The certified articles fulfil requirements of Annex XVII of REACH (incl. the use of azo colourants, nickel release, etc.), the American requirement regarding total content of lead in children's articles (CPSIA; with the exception of accessories made from glass) and of the Chinese standard GB 18401:2010 (labelling requirements were not verified).

The holder of the certificate, who has issued a conformity declaration according to ISO 17050-1, is under an obligation to use the STANDARD 100 by OEKO-TEX® mark only in conjunction with products that conform with the sample initially tested. The conformity is verified by audits.

The certificate 20.HUS.38197 is valid until 31.01.2022

Boennigheim, 26.01.2021


Dipl.-Ing. (FH) Ivonne Schramm
Head of Certification Body OEKO-TEX®





INNOTIER LIMITED

Technical Report: (8821)152-0025(R1)

Sep 26, 2021

Date Received: Jun 1, 2021

Page 1 of 2

INNOTIER LIMITED
2ND FLOOR, ASTORIA HOUSE, 62 SHAFTESBURY AVENUE,
LONGDON, ENGLAND W1D 6LT, UNITED KINGDOM

Sample Description:	INNOTIER CHAMPION SERIES ANTI-VIRAL WOVEN FABRIC – 86% POLYESTER, 8% SPANDEX, 6% IONIC+METALIZED		
Vendor:	N/A	Sample Size:	1
Manufacturer:	GUANGZHOU JF GLOVES & GARMENT ACCESSORIES CO., LTD.	Style No(s):	WTN87004X
Labeled Age Grade:	NOT RECORD	SKN/SKU No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	PO No.:	NOT PROVIDE
Client Specified Age Grade:	NOT SPECIFIED	Ref #:	NOT PROVIDE
Grade:			
Tested Age Grade:	N/A	Country of Origin:	NOT PROVIDE
UPC Code:	N/A	Assortment No.:	NOT PROVIDE
Test Starting Date:	JUN 1, 2021	Test Finished Date:	JUN 1, 2021

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- Classification of not being toxic (acute/chronic), corrosive, a skin/eye irritant, or strong sensitizer as defined in the 16 CFR 1500.3(b)(5), (7) – (9) (FHSA regulations), when used as intended or under circumstances involving reasonable foreseeable misuse, based on a Toxicological Risk Assessment of the submitted product formulation by a toxicologist.
- Classification of not being acute toxic, skin corrosive, serious eye-damaging, germ cell mutagenic, carcinogenic, reproductive toxic, respiratory/skin sensitizing or specific target organ toxic (single or repeated exposure) as defined in Annex I of sections 3.1.1, 3.2.1, 3.3.1, 3.4.1, 3.5.1, 3.6.1, 3.7.1, 3.8.1, 3.9.1 of Regulation (EC) no. 1272/2008.

The sample(s) was tested to the following requirement(s) and the data provided is for informational purposes only:

- Based on the provided art material formulation, the sample was evaluated to the requirements of the LHAMA regulation in accordance with 16 CFR 1500.14 and ASTM D4236 "Standard Practice for Labeling Art Materials for Chronic Health Hazards" by a toxicologist.

Note: The submitted formulation would not be expected to pose any significant chronic adverse health effects to humans when it is used as intended or under circumstances involving reasonable foreseeable misuse. The product(s) will not require any additional chronic health hazard labeling according to ASTM D4236. The product(s) must bear the following statement:
"Conforms to ASTM D4236"

Note: The Toxicological Risk Assessments and LHAMA evaluation were performed at a Bureau Veritas CPS approved subcontract lab.



RESULT:

Exposure Assessment and Considerations:

Evaluation of Julius Industries Limited 86% Polyester, 8% Spandex, 6% Ionic+' Metallic knit fabric for requirements of applicable sections of Federal Hazardous Substances Act (FHSA) 16 CFR Part 1500, U.S. Federal Hazardous Substance Act (FHSA) Regulations (16 CFR 1500), 16 CFR 1500 14(b)(8), LHAMA (16 CFR 1500.14), Products requiring Special Labeling - 16 CFR 1500.14, Banned Hazardous Substances - 16 CFR 1500.17, Poison Prevention Packaging Act (PPPA) 16 CFR Part 1700, ASTM D4236, ASTM F963 Section 8.2 - Standard Consumer Safety Specification for Toy Safety, California Proposition 65, REGULATION (EC) No /2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 November 2009 on cosmetic products, Cosmetic Product Safety Report (1223/2009/EC), Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures, Toy Safety Directive 2009/48/EC, Directive 67/548/EEC, Directive 2006/121/EC, Directive 1999/45/EC, Regulation (EC) No 1907/2006 of the European Parliament and requirements for Toxicology Risk Assessments

In making this evaluation Oneil M. Banks, Ph.D., CIH, DABT (certified by the American Board of Toxicology in General Toxicology 1980-2005) followed the Consumer Product Safety Commission, Guidelines for Determining Chronic Toxicity of Products Subject to the Federal Hazardous Substances Act NOHSC:1008(2004) Chapters 4 & 5 health effects criteria for classifying a substance on the basis of its health effects.

According to information supplied Julius Industries Limited 86% Polyester, 8% Spandex, 6% Ionic+' Metallic knit fabric contains: Polyethylene Terephthalate (CAS No. 25038-59-9), 2-(2-Quinoxaliny)malondialdehyde (CAS No.205744-84-9) and Propanedial,2-(2- quinoxaliny) (CAS No. 24938-04-3).

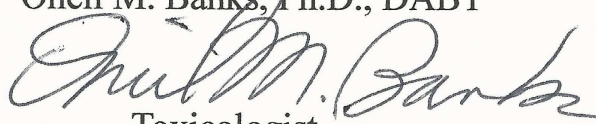
. Ater review of the supplied information, and risk assessment based on exposure. Potential, acceptable daily intake and appropriate safety factors, Oneil M. Banks, Ph.D., DABT (certified by the American Board of Toxicology in General Toxicology1980-2005) find Julius Industries Limited 86% Polyester, 8% Spandex, 6% Ionic+' Metallic knit fabric is not explosive, oxidising, extremely or highly flammable, very toxic, harmful, corrosive, sensitising, irritating to the skin or eyes carcinogenic, mutagenic, toxic for reproduction or dangerous for the environment, and will not pose acute or chronic adverse health effects in humans when used as intended.

Julius Industries Limited 86% Polyester, 8% Spandex, 6% Ionic+' Metallic knit fabric complies with requirements of applicable sections of Federal Hazardous Substances Act (FHSA) 16 CFR Part 1500, U.S. Federal Hazardous Substance Act (FHSA) Regulations (16 CFR 1500), 16 CFR 1500 14(b)(8), LHAMA (16 CFR 1500.14), Products requiring Special Labeling - 16 CFR 1500.14, Banned Hazardous Substances - 16 CFR 1500.17, Poison Prevention Packaging Act (PPPA) 16 CFR Part 1700, ASTM D4236, ASTM F963 Section 8.2 - Standard Consumer Safety Specification for Toy Safety, California Proposition 65, REGULATION (EC) No /2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 30 November 2009 on cosmetic products, Cosmetic Product Safety Report (1223/2009/EC), Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures, Toy Safety Directive 2009/48/EC, Directive 67/548/EEC, Directive 2006/121/EC, Directive 1999/45/EC, Regulation (EC) No 1907/2006 of the European Parliament and requirements for Toxicology Risk Assessments

Containers of materials larger than one ounce must have full precautionary labeling as determined by manufacturer. No other precautionary labeling is deemed necessary. Where containers of materials which require warning labels are packed in a point of sale package which obscures the warning statement, the point of sale package must have the signal word and the following wording: " Read cautions on individual containers carefully."

Remark:

This report is to Supersede BV (Dong guan) report No. (8821)152-0025 dated on Jun 1, 2021.

Oneil M. Banks, Ph.D., DABT

Toxicologist

END OF REPORT

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

Client Information	Consignor:	INNOTIER LIMITED		
	Consignor address:	2ND FLOOR ASTORIA HOUSE,62 SHAFTESBURY AVENUE LONDON, ENGLAND W1D 6LT,UNITED KINGDOM		
Sample information	Sample Description:	Knitted fabric (champion series anti-viral material-200 washes): 86%polyester 8%spandex 6%lonic+metalized in white for INNOSHIED face mask/INNOTOUCH gloves/INNOTIER garments/accessories/AgDESMO garment/accessories.		
	Style No:	WTN87004X		
	SGS No:	SL921193018333TX/GZSL2101833301SHSL		
	Supplier:	Julius industries Ltd (JIL)		
	Manufacturer:	Guangzhou JF Gloves & Garment Accessories Co., Ltd		
	Agent:	Julius Group Holdings Ltd		
	Sample Quantity:	One Piece		
Test Information	Test Type	Submitted (sample sent by client)		
	Sample Receiving Date:	2021-09-28	Test Period:	2021-09-28~2021-09-29
	Test Performed:	FZ/T 73049-2014 pass		
Test Conclusion	The report only give the test result and Individual Judgment, detail please see follow page.			

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shang hai) Co.,Ltd
Approved by:



Cheryn Xu(Authorized Signatory)

This test report refer only to the samples tested



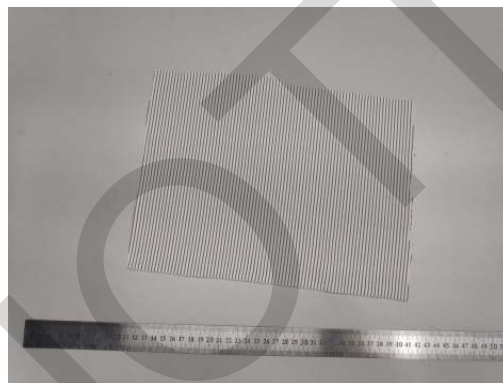
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Testing Results & Judgment

	Test Item & Test Methods	Requirement	Test Results	Individual Judgment
		Pass		
1	Air permeability of textile fabrics/ mm/s (GB/T 5453-1997) Test Pressure: 100Pa Test area: 20cm ²	≥250	303	Pass

The test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc...and just for client internal reference.

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.



End of Report



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INNOTIER LIMITED
2ND FLOOR, ASTORIA HOUSE, 62 SHAFTESBURY AVENUE, LONDON, ENGLAND W1D 6LT, UNITED KINGDOM

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

Sample Description : 86% POLYESTER 8% SPANDEX 6% IONIC+ METALIZED ONE SAMPLE OF CHAMPION SERIES ANTI-VIRAL MATERIAL CUTTING IN BLACK

Sample Color : (A) BLACK
Composition : (A) 86% POLYESTER 8% SPANDEX 6% IONIC+ METALIZED
Style No. : WTN87004X
Manufacturer : GUANGZHOU JF GLOVES & GARMENT ACCESSORIES CO. LTD
Agent : JULIUS GROUP HOLDINGS LTD
Supplier : JULIUS INDUSTRIES LTD (JIL)
Retest : No

Sample Receiving Date : Sep 26, 2021
Testing Period : Sep 26, 2021 - Sep 29, 2021
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).

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

Conclusion	A	Remark
Ultraviolet Protection Factor (UPF)	PASS	

Remark(s) : PASS=Meet Client's/General Requirement

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Lily Wang (Account Manager)



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Test Result

Ultraviolet Protection Factor (UPF)

(EN 13758-1:2001+A1:2006; Test Conditions:1) Air temperature: 21±1°C; 2) Relative humidity: 65±2% R.H.; 3) Orientation of test specimen: Specimens were clamped on sample holder. Fabric face side is facing the incident UV light; 4) Test conducted in wavelength range 290-400 nm; 5) Instrument: UV-Vis Spectrophotometer model; 6) No. of Scans: 8)

As Received

	Unit	A	Requirement
Mean UPF	-	30719	-
Standard Error	-	8380.4	-
Standard Deviation	-	10043.8	-
Sample UPF	-	>50	50+
Mean UVA (315-400nm) Transmission	%	0.01	-
Mean UVB (290-315nm) Transmission	%	0.00	-

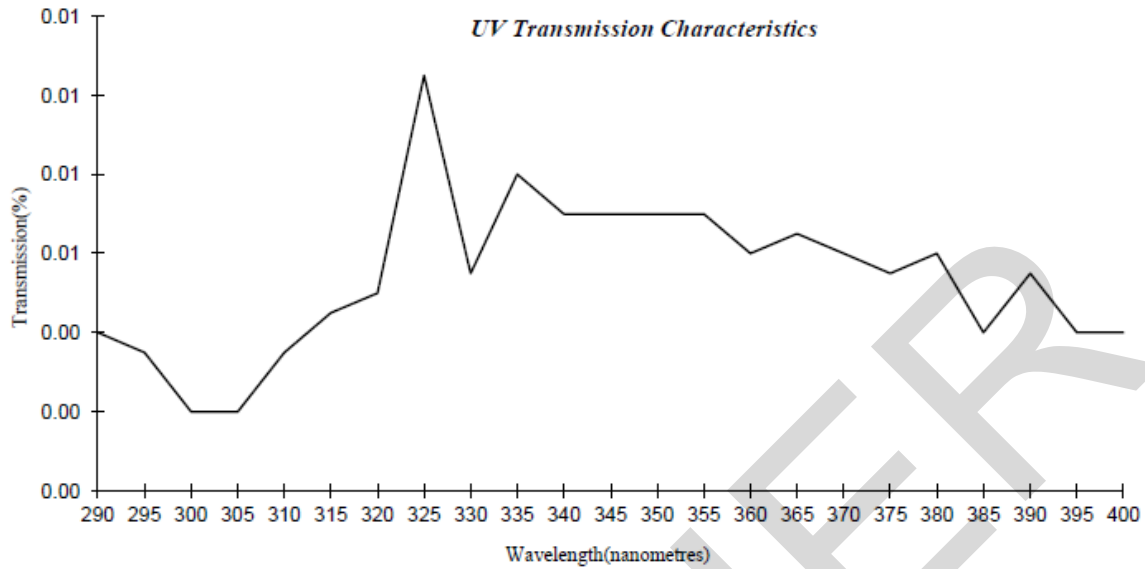
Comment:

1. The submitted Sample **Comply** with the UPF 40+ labelling requirement (EN 13758-2:2003)
2. Based on client's special request: the submitted sample A/B/C/D/E complies with the UPF 50+

Remarks :

1. According to EN 13758-2:2003+A1:2006, in order to fulfill the labelling requirement, below criteria should be met: The clothing assembly shall have the lowest UPF value larger than 40 and average UV-A transmission smaller than 5%. Clothing assembly meet design requirement.
2. The results given apply only to the colour and weight of fabric tested. Unless otherwise stated the fabric is tested dry and relaxed.
3. This UPF Rating is for the fabric and does not address the amount of protection which is afforded by the design of the article. The manipulations involved in garment manufacture such as stretching and sewing may lower the UPF of the material.
4. The protection offered by this fabric may be lessened :
 - i. At points where the fabric is in close contact with the skin such as across the shoulders
 - ii. If the fabric is stretched
 - iii. If the fabric is wet; and
 - iv. With time due to effects of normal wear.
5. For headwear: The item does not provide protection against reflected or scattered solar UVR.





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Sample Photo



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report

MINOTER



INNOTIER LIMITED

2ND FLOOR, ASTORIA HOUSE, 62 SHAFTESBURY AVENUE, LONDON, ENGLAND, W1D 6LT, UNITED KINGDOM

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

Sample Description : 86%POLYESTER 8%SPANDEX 6%IONIC+METALIZED INNOTIER CHAMPION SERIES WOVEN FABRIC WITH IONIC + METALIZED ANTI-VIRAL MATERIAL-INNOSHIELD-200X WASH IN BLACK FOR INNOSHIED FACE MASK, INNOTOUCH GLOVES, GARMENTS AND ACCESSORIES; AGDESMO GARMENTS AND ACCESSORIES; PPE PRODUCTS

Sample Color : (A)BLACK
 Composition : (A)86%POLYESTER 8%SPANDEX 6%IONIC+METALIZED
 End Use : (A)INNOSHIED FACE MASK, INNOTOUCH GLOVES, GARMENTS AND ACCESSORIES; AGDESMO GARMENTS AND ACCESSORIES; PPE PRODUCTS
 Style No. : WTN87004X
 Manufacturer : GUANGZHOU JF GLOVES & GARMENT ACCESSORIES CO., LTD
 Agent : JULIUS GROUP HOLDINGS LTD
 Supplier : JULIUS INDUSTRIES LTD (JIL)
 Retest : No

Sample Receiving Date : Sep 30, 2021
 Testing Period : Sep 30, 2021 - Oct 08, 2021
 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).

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

Conclusion	A	Remark
Flammability of Apparel Textiles	PASS	

Remark(s) : PASS=Meet Client's/General Requirement

Signed for and on behalf of
 SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch



Lily Wang (Account Manager)



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Test Result

Flammability of Apparel Textiles

(ASTM D 1230-17)

(A)

Cleaning Instructions: One time dry cleaning & AATCC 124-2011: Machine wash at water temperature(IV); 49±3°C, wash load of 3.63 kg(8lbs), 66±1 g of 1993 AATCC standard reference detergent, Normal/cotton sturdy cycle, Tumble dry, Durable Press, cool down time of 10 min.

Sample (A) : PLAIN
 Fabric Surface : Smooth
 Preliminary Testing : Face: Length DNI Width DNI
 Back: Length DNI Width DNI

Test Results: Face Length

	Original Burn Code		After Dry Cleaning & Washing Burn Code
(1)	DNI	(1)	DNI
(2)	DNI	(2)	DNI
(3)	DNI	(3)	DNI
(4)	DNI	(4)	DNI
(5)	DNI	(5)	DNI
(6)	DNI	(6)	DNI
(7)	DNI	(7)	DNI
(8)	DNI	(8)	DNI
(9)	DNI	(9)	DNI
(10)	DNI	(10)	DNI

Flammability Classification : Class 1 Normal Flammability

Remarks

Class 1 Normal Flammability
 Textiles meeting these requirements are generally accepted by the trade as having no unusual burning characteristics.

Burn Code Description:

DNI = Did not ignite



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Sample Photo



This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

End of Report

MINOTER



Sample Photo



TEST REPORT

检测检验报告

Number: GZHT02473447
报告号

Applicant: INNOTIER LIMITED
委托单位:
Address: 2ND FLOOR, ASTORIA HOUSE,
地址: 62 SHAFTESBURY AVENUE, LONDON,
ENGLAND W1D 6LT, UNITED KINGDOM
研路天有限公司
英國倫敦沙夫茨伯里大街 62 號阿斯托利亞樓 2 層
Attn: Maggie Du
联系人

Date: Sep 30, 2021
日期:

Sample Description:

One (1) Group Of Submitted Sample (12 pieces) Said To Be Knitted Face Mask (200X washes Champion Series INNOSHIELD) In Black.

样品描述 样品数量: 1 组 (12 个)
样品规格: 客户认定为针织黑色布口罩。

Applicant's Provided Care Instruction/Label: -
申请人所提供之水洗标签

Date Received : 2021-09-26
接收日期
Date Tests Started : 2021-09-26
测试开始日期

批准
Approved by

刘慧利

高级经理

邱生宁

副总经理

cd/miaqin



第 1 页 共 13 页

TEST REPORT

检测检验报告

Number: GZHT02473447
报告号

Buyer's Name : -
买家
Brand Name : INNOTIER
品牌
Manufacturer : Guangzhou JF Gloves & Garment Accessories Co.,Ltd
制造商
Agent : Julius Group Holdings Ltd
代理商
Type No : WTN87004X
型号
Document Accordance : FZ/T 73049-2014 《针织口罩》合格品
判定依据 GB 18401-2010 《国家纺织产品基本安全技术规范》A类
Remark :
备注 Sterilization or Not 是否为“灭菌”或“无菌”产品: 否

批准
Approved by

刘楚尔

高级经理

邱生宁

副总经理

cd/miaqin



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TEST REPORT

检测检验报告

Number: GZHT02473447
报告号

Conclusion:
结论

Fibre Analysis(纤维含量)	*1
Formaldehyde Content(甲醛含量)	M
pH Value(pH 值)	M
Presence Of Odor(异味)	M
Colour Fastness To Washing (耐洗色牢度)	M
Colour Fastness To Rubbing (耐摩擦色牢度)	M
Colour Fastness To Perspiration (耐汗渍色牢度)	M
Colour Fastness To Water (耐水色牢度)	M
Colour Fastness To Saliva (耐唾液色牢度)	M
Air Permeability (透气率)	M
Azo Dyes(可分解致癌芳香胺染料)	M

Note: M = Meet Standard's Requirement F = Below Standard's Requirement
C = Conform To The Declared Fibre Content * = See Remark
= No Comment N/A = Not Applicable

备注: M = 符合标准要求 F = 不符合标准要求
C = 符合公告的成分内容 * = 看注解
= 无评语 N/A = 不适用

*1 See Test Result/见测试结果

批准
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TEST REPORT
检测检验报告

Number: GZHT02473447
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Test Conducted:
测试内容:

1.As Requested By The Applicant, For Details Refer To Attached Page (S)
以下测试依据申请人所要求进行,具体内容参见附页

2.All the tested item are tested under the standard condition (except for indication).
本报告中检测项目均在相应标准规定的环境条件下进行(有注明的除外).

Remark:
备注:

1.The Chinese version of this test report is the standard one; the English version is only for reference.
此报告以中文为主英文仅作参考.

2.The report is valid with commission test only for the test samples in the case of delivering samples by clients. No copy test report is valid without original special stamp of the test body.
检验仅对检测样负责,复印件未重新加盖红色检验专用章无效.

批准
Approved by

刘楚利

高级经理

邱生宁

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TEST REPORT
检测检验报告

Number: GZHT02473447
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- 1 Fibre Analysis (FZ/T 01057.1~4-2007, GB/T 2910. 7 -2009, FZ/T 01095-2002 Method B):
纤维含量 (FZ/T 01057.1~4-2007, GB/T 2910. 7 -2009, FZ/T 01095-2002 方法 B):

Marked
备注

Based On Moisture Regain Weight
根据公定回潮率重量

84.2% Polyester 11.0% Elastane 4.8% Polyamide
84.2% 聚酯纤维 11.0% 氨纶 4.8% 锦纶

Remark : Moisture Regain Based On GB/T 9994-2018 Polyester 0.4%, Elastane 1.3% and Polyamide 4.5%
备注 : 公定回潮率参照 GB/T 9994-2018 聚酯纤维 0.4%, 氨纶 1.3%, 锦纶 4.5%

- 2 Formaldehyde Content (GB/T 2912.1-2009):
甲醛含量 (GB/T 2912.1-2009):

Requirement
要求

Not Detectable
未检出

≤ 20 mg/kg

Remark: Detection Limit = 20 mg/kg
备注: 检出限 = 20 mg/kg

- 3 pH Value (GB/T 7573-2009, KCl):
pH 值 (GB/T 7573-2009, KCl):

Requirement
要求

6.0

4.0-7.5

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检测检验报告

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- 4 Presence Of Odor (GB 18401-2010 Section 6.7):
异味 (GB 18401-2010, 6.7):

	Requirement 要求
	=====
Negative 无异味	Negative 无异味

- 5 Colour Fastness To Washing (GB/T 3921-2008, Test method A (1), 30 Minutes Mechanical Wash At 40°C In 0.5% Soap, Liquor Ratio: 50:1):
耐洗色牢度 (GB/T 3921-2008, Test method A (1), 40°C 30 分钟机械洗涤,用 0.5%皂片,浴比为 50:1):

	Requirement 要求
	=====
	Body <u>主身</u>
Colour Change 颜色变化	4-5 ≥ 4
Colour Staining 沾色	≥ 4
-Polyamide 锦纶	4-5
-Polyester 聚酯纤维	4-5

	Requirement 要求
	=====
	Binding <u>包边</u>
Colour Change 颜色变化	4-5 ≥ 4
Colour Staining 沾色	≥ 4
-Cotton 棉	4-5
-Polyamide 锦纶	4-5

Remark : Unit : Grade
备注: 单位: 级

TEST REPORT
检测检验报告

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6 Colour Fastness To Rubbing (GB/T 3920-2008)
耐摩擦色牢度 (GB/T 3920-2008)

	Body <u>主身</u>	Binding <u>包边</u>	Requirement 要求 =====
Dry 干	4-5	4-5	≥ 4
Wet 湿	4-5	4-5	≥ 3-4

Remark : Unit : Grade
备注: 单位: 级

TEST REPORT
检测检验报告

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报告号:

7 Colour Fastness To Perspiration (GB/T 3922-2013)
耐汗渍色牢度 (GB/T 3922-2013)

	Body 主身		Requirement 要求 =====
	Acid 酸	Alkaline 碱	
Colour Change 颜色变化	4-5	4-5	≥ 4
Colour Staining 沾色			≥ 4
-Polyamide 锦纶	4-5	4-5	
-Polyester 聚酯纤维	4-5	4-5	

	Binding 包边		Requirement 要求 =====
	Acid 酸	Alkaline 碱	
Colour Change 颜色变化	4-5	4-5	≥ 4
Colour Staining 沾色			≥ 4
-Cotton 棉	4-5	4-5	
-Polyamide 锦纶	4	4	

Remark : Unit : Grade
备注: 单位: 级

TEST REPORT
检测检验报告

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8 Colour Fastness To Water (GB/T 5713-2013)
耐水色牢度 (GB/T 5713-2013)

		Requirement 要求 =====
	<u>Body</u> 主身	
Colour Change 颜色变化	4-5	≥ 4
Colour Staining 沾色		≥ 4
-Polyamide 锦纶	4-5	
-Polyester 聚酯纤维	4-5	
		Requirement 要求 =====
	<u>Binding</u> 包边	
Colour Change 颜色变化	4-5	≥ 4
Colour Staining 沾色		≥ 4
-Cotton 棉	4-5	
-Polyamide 锦纶	4	

Remark : Unit : Grade
备注: 单位: 级

TEST REPORT
检测检验报告

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9 Colour Fastness To Saliva (GB/T 18886-2019):
耐唾液色牢度 (GB/T 18886-2019):

		Requirement 要求 =====
	<u>Body</u> <u>主身</u>	
Colour Change 颜色变化	4-5	≥ 4
Colour Staining 沾色		≥ 4
-Polyamide 锦纶	4-5	
-Polyester 聚酯纤维	4-5	
		Requirement 要求 =====
	<u>Binding</u> <u>包边</u>	
Colour Change 颜色变化	4-5	≥ 4
Colour Staining 沾色		≥ 4
-Cotton 棉	4-5	
-Polyamide 锦纶	4	
Remark : Unit : Grade 备注： 单位： 级		

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检测检验报告

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- 10 Air Permeability (GB/T 5453-1997):
透气率 (GB/T 5453-1997):

295.5 mm/s	Requirement 要求 =====
	≥250 mm/s

Remark: Test Pressure = 100 Pa, Test Area = 20 cm²
备注: 压降 = 100 Pa, 试验面积 = 20 cm²

- 11 Detection of Amines Content in Dyestuffs
可分解致癌芳香胺染料

As per GB 18401-2010, GB/T 17592-2011 Were Used, Amines Content in Dyestuffs Were Detected by Gas Chromatography - Mass Spectrometry (GC-MS)

根据 GB18401-2010 的要求, 采用测试方法: GB/T 17592-2011, 可分解致癌芳香胺染料使用气相色谱-质谱联用仪 (GC-MS) 检测。

	<u>Forbidden Amine</u> 禁用芳香胺	<u>CAS No.</u> 化学文摘编号	<u>Result (mg/kg)</u> 结果 (mg/kg)	<u>Requirement (mg/kg)</u> 要求 (mg/kg)
			(1+2)	
1	4-Aminodiphenyl 4-氨基联苯	92-67-1	ND	≤ 20
2	Benzidine 联苯胺	92-87-5	ND	≤ 20
3	4-Chloro-O-Toluidine 4-氯邻甲苯胺	95-69-2	ND	≤ 20
4	2-Naphthylamine 2-萘胺	91-59-8	ND	≤ 20
5	O-Aminoazotoluene 邻氨基偶氮甲苯	97-56-3	ND	≤ 20
6	5-nitro-o-toluidine 5-硝基-邻甲苯胺	99-55-8	ND	≤ 20

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7	P-Chloroaniline 对氯苯胺	106-47-8	ND	≤ 20
8	2,4-Diaminoanisole 2,4-二氨基苯甲醚	615-05-4	ND	≤ 20
9	4,4'- Diaminodiphenylmethane 4,4'-二氨基二苯甲烷	101-77-9	ND	≤ 20
10	3,3'-Dichlorobenzidine 3,3'-二氯联苯胺	91-94-1	ND	≤ 20
11	3,3'-Dimethoxybenzidine 3,3'-二甲氧基联苯胺	119-90-4	ND	≤ 20
12	3,3'-Dimethylbenzidine 3,3'-二甲基联苯胺	119-93-7	ND	≤ 20
13	3,3'-Dimethyl- 4,4'diaminodiphenylmeth ane 3,3'-二甲基-4,4'-二氨基 二苯甲烷	838-88-0	ND	≤ 20
14	P-Cresidine 2-甲氧基-5-甲基苯胺	120-71-8	ND	≤ 20
15	4,4'-Methylene-Bis(2- Chloroaniline) 4,4'-亚甲基-二-(2-氯苯 胺)	101-14-4	ND	≤ 20
16	4,4'-Oxydianiline 4,4'-二氨基二苯醚	101-80-4	ND	≤ 20
17	4,4'-Thiodianiline 4,4'-二氨基二苯硫醚	139-65-1	ND	≤ 20
18	O-Toluidine 邻甲苯胺	95-53-4	ND	≤ 20
19	2,4-Toluylenediamine 2,4-二氨基甲苯	95-80-7	ND	≤ 20
20	2,4,5-Trimethylaniline 2,4,5-三甲基苯胺	137-17-7	ND	≤ 20
21	O-Anisidine 邻氨基苯甲醚	90-04-0	ND	≤ 20
22	4-Aminoazobenzene 4-氨基偶氮苯	60-09-3	ND	≤ 20
23	2,4-Xylidine 2,4-二甲基苯胺	95-68-1	ND	≤ 20
24	2,6-Xylidine 2,6-二甲基苯胺	87-62-7	ND	≤ 20

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Remark 备注: mg/kg = 毫克/千克
Detection Limit = 5 mg/kg
检出限 = 5 mg/kg
ND = Not Detected
ND = 未检出

This test was conducted in Guang Dong Software Science Park
该测试在主场所科学城软件园进行检测

Tested Components:

- (1) Black/ khaki knitted fabric (body) 黑色/ 卡其色针织布 (主身)
- (2) Black elastic band (binding) 黑色松紧带 (包边)

End of Report/报告结束

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