

研路天

Antiviral Underwear

Certifications

- 1. WEIPU Shanghai Antiviral activity [HCoV-229E] Test Method ISO18184:2019 Test Report 上海微譜 抗病毒活性測試 [人類冠狀病毒 229E] 報告 測試標準 ISO18184:2019
- 2. ZKGC Inspection and Certification Antiviral activity [HPV-16] Test Method ISO18184: 2019 Test Report
 - 中科國創 抗病毒活性測試 [人乳頭瘤病毒 16 型] 報告 測試標準 ISO18184:2019
- 3. GTTC -Antimicrobial activity ASTM E 2149-2020 Candida albicans Test Report 廣州檢驗檢測認證集團 - 抗菌活性測試[白色念珠菌]報告 測試標準 ASTM E 2149-2020
- 4. GTTC -Antimicrobial activity T/GDBX 056-2022 (L^{evel} AAAAAAA) L^{ining} Fabric Test Report[Staphylococcus aureus, Colon bacillus, Candida albicans](150 washes) 廣州檢驗檢測認證集團 抗菌活性測試 AAAAAAA 級報告 測試標準 T/GDBX 056-2022[大腸桿菌、金黃色葡萄球菌、白色念珠菌] 150 次洗水
- 5. GTTC GB/T 35263-2017 Textiles-Testing and evaluation for cool feeling in contact instant Test Report 廣州檢驗檢測認證集團 -紡織品接觸涼感係數報告 測試標準 GB/T 35263-2017
- 6. GTTC GB/T 21655.2-2019 T^{extiles}-Evaluation ^{of} absorption and quick-drying Test Report 廣州檢驗檢測認證集團 -紡織品吸濕速乾性報告 測試標準 GB/T 21655.2-2019
- 7. GTTC GB/T 5453-1997 Air permeability Test Report 廣州檢驗檢測認證集團 –透氣性報告 測試標準 GB/T 5453-1997
- 8. GTTC FZ/T 73024-2014 Knitted underwear with chemical fibres Test Report

9. SGS – SL92409288553001TX Moisture Management Tester



Shanghai WEIPU Changa Weipolog Service Co., Ltd



No.: WP-21096414-JC-04En Page(s)

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

Sample Name : INNOTIER Champion Series woven fabric with Ionic+

Sample Description - Champion Series Anti-Viral PPE material - 100X wash

Type: WNE53001

Brand: INNOTIER

Applicable: INNOTOUCH gloves, underwear, garments and accessories AgDESIAO garments and accessories

Testing information:

Date of Sample Received 2021-09-23

Testing Period : 2021-09-26~ 2021-10-13

Test Item(s) - Selected test (s) as requested by clie

Test Criterion • Please refer to next pag (s).

Test Result - Please refer to next rage(s

Complied by:

Yingying Shao

Approved by

IJ Ice

Issued Date 2021 19





No.: WP-21096414-JC-04En Page(s) 2

Test Item(s): *Antiviral Activity **[**HCoV-229E **]** Test Standard and Method: ISO 18184:2019

Test Instruments: Biosafety Cabinet

Test Result(s):

rest Result(s).		•		•
Virus Types	NO	lg(Va ₁) (gTCID ₃ /ml)	b) (gTCID _y /ml)	lg(Vc_) (gTCID, /ml)
	1	6.57	6.54	4.41
HCoV-229E MDCK cells	2	6.55	6.53	42
	3	6.54	6.51	4.44
Average Val lgTCID /	ue of ml	6.55	6.5	4.42
Antiviral Activi Antiviral Ac	tivity		2.13	
Rate ()		99.26	





Report

- 1.
- 2.
- 3.



No.: WP-21096414-JC-04En Page(s)

Sample picture(s):



The report is invalid without a sepond special Seal for Inspection or Testing" or without "Special Seal for the Report" or without the signature of the compiler and the approver.

No unauthorized changes, additions is deletions shall be made to the report.

Neither fragmente report nor its incomplete copy shall be deemed valid. The complete copy is invalid without the stamp of "Special Seal or Inspection" and "respection" and "special Seal or Inspection".

Any que ies on the port shall be presented to us within 15 working days after receipt of the report.

The result describe 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.

The applicant takes full responsible for the truthfulness of the testing sample(s) and information related thereto.

Without the permission of the company, any party is prohibited from using the test results and the report for undue publicity.

With the permission of the client, the items with * in this report is/are subcontracted from other laboratory.

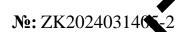
Report

- 5.
- 6.
- 7.
- 8.

测试报告

TEST

REPORT





样品名称

专利黑利技术 毫不呆内裤 Antiviral underwear

Sample Name

委托单位

Inspection Requestor

研路 天科技有限公司INNOTIER Limited

检验类。

委批测试

Inspecti in Ca. gol.



注意事项

- 1、检验结论栏无"检验检测专用章"无效,报告未加盖骑缝章无效。部分复制无效,或 全文复制报告未重新加盖本公司"检验检测专用章"无效。
- 2、报告无主检、审核、批准人签字无效。报告涂改无效。
- 3、本报告未经本公司同意,不得用于产品标签、包装、广告等宣传活动。
- 4、本公司对样品检测结果的准确性负责,委托方对所提供的样品及其相关信息的 真实性负责。
- 5、对检测报告若有异议,应于收到报告之日起 15 日内向本公司提出。
- 6、本报告仅提供给委托方,本公司不承担其他方应用本报告所产生的责任。

中科国创检验认证有限公司 GuochuangInspection and Certification

Zhongke

测试报告

Co., LTd

TEST REPORT

№:ZKGC-CS-2024031405-2

共3页第1页

	专利黑科技抗	检验类别	
	菌环保内裤	Inspection	
样品名称	Antiviral	Category	
Sample Name	underwear		委托测试
受检单位(人)			
Subject unit			
(People)		/	
生产/供货单位			
Production/Supply	广州市凯权服饰	i有限公司 GuangZhou JF Gloves & Garment	Accessories Co.,
Unit		Ltd	
委托单位			
Inspection			
Requestor		研路天科技有限公司 INNOTIER Limited	
标称商标		样品等级	
Nominal Mark	/	Sample Grade	/
规格型号		生产日期	
Specification	/	Production Date	/
抽样日期		抽样地点	
Sampling Date	/	Sampling Address	/



抽样基数 Sampling Base	进货量 Replenishment Quantity	

中科国创检验认证有限公司

Zhongke GuochuangInspection and Certification Co., LTd

测 试 报 告

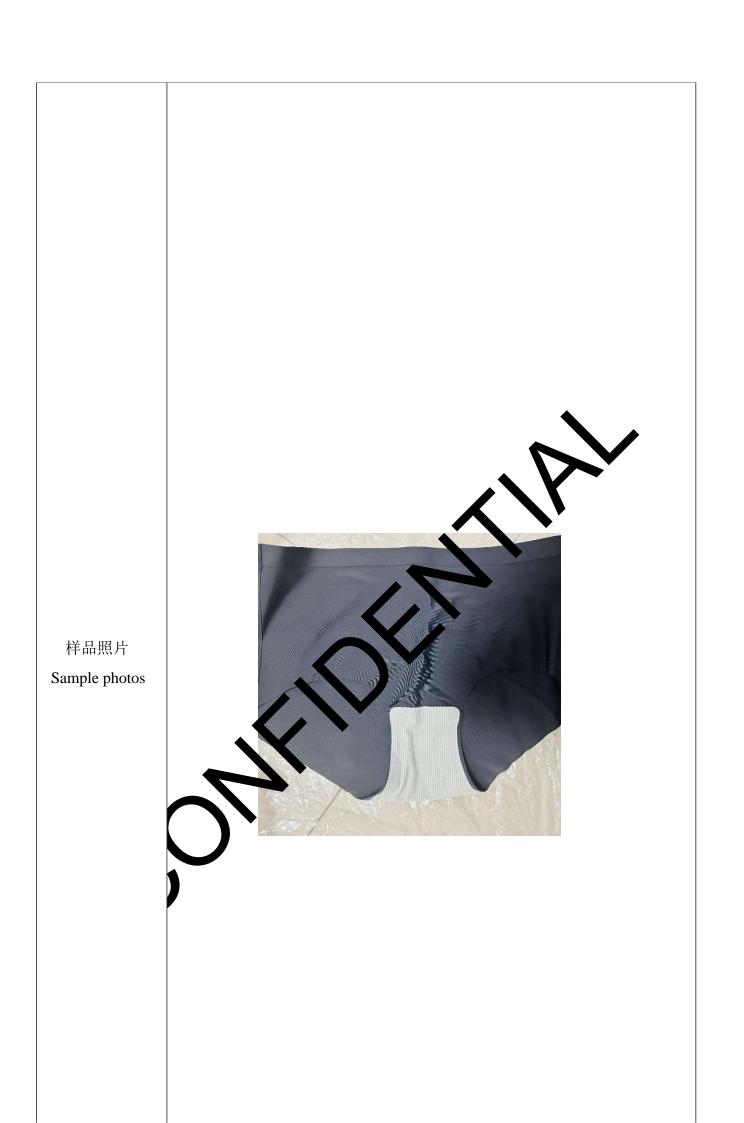
抽样人	0.00000	样品状态	
Sample-jerker	/	Sample Condition	固态
样品数量		 到样日期	
Sample			
Quantity	1	Received Date	2024.02.25
检验日期		环境条件	
Inspection Date	2024.02.25	Environmental Condition	符合
州投资均 口			111 🗖
抽样单编号		检验项目	
Sampling list		Inspection Items)¥ □ 丁壬
Number	/		详见下页
主要仪器及编号			
Main Instruments			
and			
Number		/	
检验依据			
Inspection			
Regulations		ISO 18184: 2019	

TEST REPORT

№:ZKGC-CS-2024031405-2

共3页第2页





备注 Remark

产品已经 200 次水洗 The product has been washed 200 times.

主检: 李博

审核: 孙亮

批准: 高大伟

中科国创检验认证有限公司

Zhongke GuochuangInspection and Certification Co., LTd

测 试 报 告 TEST REPORT

№: ZKGC-CS-2024031405-2

共3页第3页

序号 Serial number	实验病毒 Experimental virus	grou	ap sign sign sign sign sign sign sign sign	病毒感染滴度对数值 Viral infection titer nmic value CID ₅₀ /0.1m 平均值	平均病毒感染滴 度 Average viral infection titer (TCID ₅₀ /0.1m ³)
		J. 2	付 照 1 付		
	HPV-16	Oh g	照 组 2	5.10	4.5×10 ⁴
1	(宿 主 细 胞 MDCK	5	付 照 3 5.10		
		月丝	付 照 组 1		
		Ih y	付 照 且 4.97		4.7×10 ⁴

对照组3	95	
	95	

实 验 组 1 实	5	
	5 < 0.05	12
实 验 组 3	5	



(Electronic version)

Issue Date: 2021-08-11

Verification Website: www.gttc.net.cn

Verification Code: KFVU-2509-24

Applicant: INNOTIER Limited

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

Kingdom

Information confirmed by applicant:

WNE53001 Fabric $50 \text{cm} \times 50 \text{cm}$

Brand: INNOTIER Colour: Gray

Fibre Content: 53%Polyamide 30%Ionic 17%Spandex

Basis of judgement:

Date Received/Date Test Started: 2021-08-02

Conclusion:

Antimicrobial activity

Note: "M"-Meet the standard's requirement "---"-No comment "F"-Fail to meet the standard's requirement

Remark:

All the tested items are tested under the standard condition (except for indication).
Copies of the report are valid only re-stamped.
The experiment was carried out at No. 1, Zhujiang Road, Panyu District, Guangzhou, Guangdong, P.R.China.

Approved By:

JuXiang Zhong Engineer



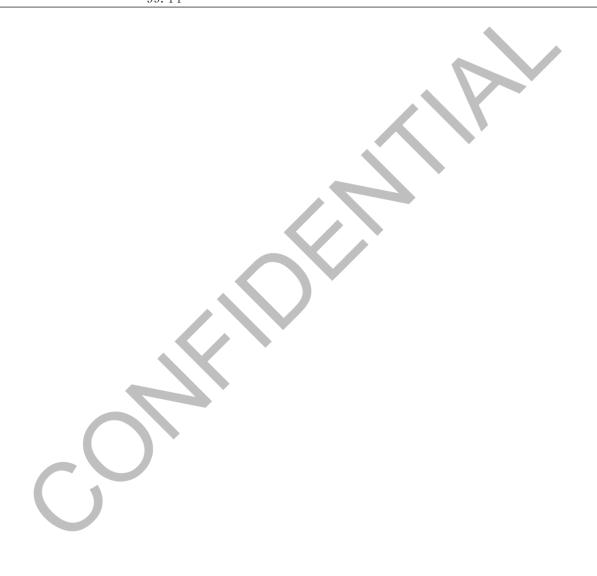
(Electronic version)

No:210233989

Antimicrobial activity(%)

(ASTM E 2149-2020, Time of inhibiting bacteria: 24 hours) Inhibition: Candida albicans

99. 14







中国产业用纺织品行业测试中心(广东)







Test Report



Verification Website: www.gttctech.com Verification Code: DJWK-7461-44

Issue Date 签发日期: 2024-02-24

Applicant: INNOTIER Limited 委托单位:

研路天科技有限公司

Address: 地址:

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

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:

Antiviral Underwear 专利黑科技抗菌环保内裤

Quantity 数量: 6 pieces 6条

Fabric 面料

Quantity 数量: 2 pieces 2块100cm×100cm

Manufacturer 生产单位: GuangZhou JF Gloves & Garmen Co., Ltd

广州市凯权服饰有限公司

Basis of judgement 判定依据:

T/GDBX 056-2022 < Antibacterial

Date Received/Date Test Started:

样品受理/测试开始日期: 2024-02

Conclusion 结论:

The testing re conform with the quality requirements of standard 所检项目符合T/GDBX 056-2022标准要求。 T/GDBX

AAAAAAA) [Lining fabric] Antimi crobi al

Liam Line

抗菌效果AAAA

Approved By(签发):

刘丽琴 高级工程师

LiQin Liu Senior Engineer







广州检验检测认证集团有限公司 Guanghou Inspection Testing and Confession

国家纺织品服装服饰产品质量检验检测中心(广州) 国家皮革制品质量检验检测中心(广东) 中国产业用纺织品行业测试中心(广东)







Test Report



Verification Website: www.gttctech.com Verification Code: DJWK-7461-44

Scan to download 扫码下载报告

Issue Date 签发日期: 2024-02-24

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 "---" -此项目不判定 "F" -不符合标准要求

Remark:
The decision indicators are derived from the standard required by client T/GDBX 056-2022). Our inspection capacity authorized by CMA covers the inspection items of T/GDBX 056-2022.
判定指标来源于客户要求的T/GDBX 056-2022。我单位获CMA认定授权的检验能力覆盖T/GDBX 056-2022所交项目。
This report replaces test report 240027407 which has become invalid automatically.
本报告代替240027407报告,同时240027407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.
复印件、副本未重新加盖报告书确认章无效。
The experiment was carried out at No. 1, Zhujiang Road, Panyu District, Guarahou, Guaradong, 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):

刘丽琴 高级工程师

LiQin Liu Senior Engineer

Liam Line









国家纺织品服装服饰产品质量检验检测中心(广州 Mithoda Qually inspector and Testing Castler to Testifs Gament and Accessories (Gasephon) 国家皮革制品质量检验检测中心(广东) Mithoda Qually inspector and Testing Castler to Leather Productionsparing 中国产业用纺织品行业测试中心(广东)







Test Report













































































广州检验检测认证集团有限公司 Guanghou Inspection Testing and Certification Group Co., Ltd 國家的新品服装服饰产品质量检验检测中心(广州 国家皮革制品质量检验检测中心(广东)







Test Report

No: 240027407 MO

Antimicrobial activity (Level AAAAAAA) [Lining fabric] 抗菌效果AAAAAAA 级[底裆布料]

Test method 测试方法: GB/T 20944.3-2008

Shake flask method 振荡法

Sterilization of samples: Sterilized in autoclave 样品灭菌方法: 高压蒸汽灭菌

Contact time: 18h 样品与菌液接触培养时间: 18h

Control fabric: 100% cotton fabric 对照样品: 100%纯棉织布

Washing by household double-barrel washing machine, 150 washing 家房、叉桶洗衣机洗涤方法,洗涤 150

次

Concentration of bacterium 菌液浓度:

Staphylococcus aureus ATCC 6538 金黄色葡萄球菌 ATCC 638: 2×10 CFU/mL

Colon bacillus 8099 大肠杆菌 8099: 3.3×10⁵ CFU/m

Candida albicans ATCC 10231 白色念珠菌 ATC 10231: 3.1×105 CFU/mL















Test bacteria 测试菌种	Number of bacteria 菌落总数 (CFU/mL)					
		fabri c {试样	Treated test specimen 抗菌试样	Growth value F 增长值 F	Inhi bi ti on 抑菌率 (%)	Requirement 标准要求 (%)
	contact time	After "18h" contact time 培养 18h 后均	contact time	增长值上		
Staphyl ococcus aureus 金黄色葡萄球菌	2.1×10^4	2.7×10^6	2. 4×10 ⁵	2.1		≥85
Colon bacillus 大肠杆菌	2.2×10^4	8.3×10 ⁶	1.7×10 ⁶	2.6	80	≥70
Candi da al bi cans 白色念珠菌	2.0×10^4	6.1×10^5	4×10^5	1.5	77, 47	≥70
The evalua antimicrobial 抗菌效果 Basis of ju 判定依	activity 评价 idgement 話据	T/GDB, 956	2022			
Conclus Remar		Pag 符合				





注意事项

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- 2. 复印件未加盖检测单位报告确认章无效。
- 3. 对委托送检结果有异议的,应于报告书送达之日起十五日内提出。
- 4. 检测结果仅对所检样品有效。
- 5. 未取得资质认定的项目,仅作为科研、教学或内部质量控制之用。
- 6. 报告书涂改无效。
- 7. 客户提供的信息(包括样品信息),本公司/中心不对其真实性负责。
- 8. 未经本公司/中心书面批准不得部分复制本报告,全部复制除外。

Note

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国家皮革制品质量检验检测中心(广东) 中国产业用纺织品行业测试中心(广东)







Test Report



Verification Website: www.gttctech.com Verification Code: GQPS-8227-04

Issue Date 签发日期:2024-03-11

Applicant: INNOTIER Limited 委托单位: 研路天科技有限公司

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

Kingdom

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 研路天抗菌无痕内裤 6条,底裆面料

 $100 \text{cm} \times 100 \text{cm}$

Brand 商标: 研路天

Manufacturer 生产单位:广州市凯权服饰有限公司

Basis of judgement 判定依据:

GB/T 35263-2017 〈Textiles--Testing and evaluation for cool feeling in contact instant〉《纺织品 接触 瞬间凉感性能的检测和评价》

Date Received/Date Test Started: 2024-03-06

样品受理/测试开始日期: 2024-03-06

Conclusion 结论:

Coefficient of cool feeling in contact[Lining shell fabric]

接触凉感系数[底裆面料布料]

Note: "M"-Meet the standard's requirement "F"-Fail to meet the standard's requirement "---"-No comment

"M" -符合标准要求 "---" -此项目不判定 "F" -不符合标准要求

Remark:
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.
复印件、副本未重新加盖报告书确认章无效。
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



Yuan Liu Engineer











No: 240044713













No: 240044713





广州检验检测认证集团有限公司 Guangzhou Inspection Testing and Certification Group Co., Ltd. 国家纺织品服装服饰产品质量检验检测中心广州) Instanto Light Inspection at Insetting and Inconsension

Guangerou inspection lessing and certification Group Co. [广州 国家纺织品服装服饰产品质量检验检测中心(广东 National Gually inspection and lesing Custer for National Guanty Inspection and lesing Custer for National Constitution (Company) 国家皮革制品质量检验检测中心(广东) National Gually Inspection at Institution Institutional Constitution of Institution (Inspectional Company) 中国产业用纺织品行业测试中心(广东)







Test Report

No: 240044713

Coefficient of cool feeling in contact(J/ $(cm \Box \cdot s)$)[Lining shell fabric] M接触凉感系数(J/ $(cm \Box \cdot s)$)[底裆面料布料]

(GB/T 35263-2017, Table material 载样台材质: Polystyrene foam 聚苯乙烯泡沫, Instrument type 仪器型号: Roaches Q-Max, Test condition 试验条件: 20.1℃, 65.2%, Hot plate temperature 热板温度: 35.0℃, Cold plate temperature 冷板温度: 20.0℃)

Requirement 要求

1# 0. 287 2# 0. 290 3# 0. 285 4# 0. 279 5# 0. 284

Average 半均值 0.28

 ≥ 0.15

(GB/T 35263-2017)





注意事项

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- 6. 报告书涂改无效。
- 7. 客户提供的信息(包括样品信息),本公司/中心不对其真实性负责。
- 8. 未经本公司/中心书面批准不得部分复制本报告,全部复制除外。

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国家皮革制品质量检验检测中心(广东) 中国产业用纺织品行业测试中心(广东)







Test Report



Verification Website: www.gttctech.com Verification Code: XSXM-3721-14

Issue Date 签发日期:2024-03-12

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

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 研路天抗菌无痕内裤 6条,底裆面料

100cm×100cm

Brand 商标: 研路天

Manufacturer 生产单位:广州市凯权服饰有限公司

Basis of judgement 判定依据:

GB/T 21655.2-2019 〈Textiles—Evaluation of absorption and quick-dring—Part 2:Method for moisture management tests〉 《纺织品 吸湿速干性的评定 第2部分: 动态水分传递法》

Date Received/Date Test Started: 2024-03-06

样品受理/测试开始日期: 2024-03-06

Conclusion 结论:

Absorption and sweat releasing property before washing[Lining shell fabric]

洗前吸湿排汗性[底裆面料布料]

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

Note: "M -Meet the Samment
"---"-No comment
备注: "M" -符合标准要求
"---" -此项目不判定 "F" -不符合标准要求

All the tested items are tested under the standard condition (except for indication).
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复印件、副本未重新加盖报告书确认章无效。
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)

赖红敏 工程师

HongMin Lai Engineer

Hongrin Lai































广州检验检测认证集团有限公司 Guangshou inspection Testing and Certification Group Co., Ltd. 国家纺织品服装服饰产品质量检验检测中心广州) Shistona Quality suspection of Insting Confession and National Confession and National Confession and National Confession

国家皮革制品质量检验检测中心(广东)
National Quality inspection and Testing Center for Leather Productions anothers 中国产业用纺织品行业测试中心(广东)







Test Report

No: 240044714

Absorption and sweat releasing property before washing[Lining shell

洗前吸湿排汗性[底裆面料布料] (GB/T 21655.2-2019)

Wetting time 浸湿时间: Penetration face 渗透面

3.5s 4 Grade 级

Absorption rate 吸水速率: Penetration face 渗透面

58.1%/s 4 Grade 级

One-way transport capability 单向传递指数:

101.5 3 Grade 级 Requirement 要求 Wetting time 浸湿时间:

≥3 Grade 级 Absorption rate 吸水速率

≥30.1%/s ≥3 Grade 级

One-way transport 单向传递指数:

≥100.1 ≥3 Grade 级 (GB/T 21655.2







注意事项

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国家皮革制品质量检验检测中心(广东) 中国产业用纺织品行业测试中心(广东)



Issue Date 签发日期:2024-03-11





Test Report



Verification Website: www.gttctech.com Verification Code: HKHF-5174-54

Applicant: INNOTIER Limited 研路天科技有限公司

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

Kingdom

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 研路天抗菌无痕内裤

6条,底裆面料

100cm×100cm

Brand 商标: 研路天

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: 2024-03-06

样品受理/测试开始日期: 2024-03-06

Conclusion 结论:

Air permeability[Lining shell fabric]

透气性[底裆面料布料]

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

Note: M meet the standard mee -不符合标准要求

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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)

赖红敏 工程师

HongMin Lai Engineer

Hongrin Lai































中国产业用纺织品行业测试中心(广东) China Nonwovens and Industrial Textiles Testing Center(Guangdong)







Test Report

No: 240044712

Air permeability(mm/s)[Lining shell fabric] 透气性(mm/s)[底裆面料布料]

(GB/T 5453-1997, Pressure drop 压降: 100Pa, Test area 试验面积: 20cm,□ Face up 正面朝上)
216 (CV 变异系数: 9.2%)







注意事项

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Test Report



Verification Website: www.gttctech.com Verification Code: YHJF-1096-04

Issue Date 签发日期: 2024-02-23

委托单位:

Applicant: INNOTIER Limited 研路天科技有限公司

Address:

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

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:

Antiviral Underwear 专利黑科技抗菌环保内裤

Quantity 数量: 6 pieces 6条

Fabric 面料

Quantity 数量: 2 pieces 2块100cm×100cm

Manufacturer 生产单位: GuangZhou JF Gloves & Garmen Co., Ltd.

广州市凯权服饰有限公司

Basis of judgement 判定依据:

es> 《化纤针织内衣》, GB 18401-2010 < National 国家纺织产品基本安全技术规范》, GB/T 29862-2013 ical fib 纤维含量的标识》, T/GDBX 056-2022

<Antibacterial textiles> 《抗菌纺织

-02-04 Date Received/Date Test Star

样品受理/测试开始日期:

Conclusion 结论:

esults conform with the quality requirements for qualified

st. adard FZ/T 73024-2014.

| 符合FZ/T 73024-2014标准合格品要求。

Di mensi onal underwear1

to washing[Finished product: light yellow M abi l i t

水洗尺寸变化率[成品浅黄色内裤]







广州检验检测认证集团有限公司 Guangzhou Inspection Testing and Certification Group Co., Ltd.

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Test Report



Verification Website: www.gttctech.com Verification Code: YHJF-1096-04

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110 · 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Issue Date 签发日期:2024-02-23	- ET
Pilling[Light yellow underwear shell fabric]	M	
起球[浅黄色内裤面料布料]		
Fibre composition[Light yellow underwear lining fabric]	7	
纤维含量[浅黄色内裤底裆布料]	57 57 57	
Fibre composition[Light yellow underwear shell fabric]		
纤维含量[浅黄色内裤面料布料]		
pH value[Light yellow underwear lining fabric]	M	
pH值[浅黄色内裤底裆布料]		
pH value[Light yellow underwear shell fabric]	M	
pH值[浅黄色内裤面料布料]		
Formal dehyde content[Finished product: light yellow under	er ear	
including print]		
甲醛含量[成品浅黄色内裤含印花部位]		
Determination of odours[Finished product: light rellow underwear]	M	
异味[成品浅黄色内裤]		
	ni shed M	
product: pink underwear shell]	ni shed M	
耐皂洗色牢度[成品粉色内裤面料]		
Colour fastness to perspiration[Finished product: pink	M	
underwear shell]		
耐汗渍色牢度[成品粉色内裤面料]		
Colour fastness to water[Finishel product: pink underweathshell]	ar M	
耐水色牢度[成品粉色皮肤下料]	damaga M	
Colour fastness to dry rubling Finished product: pink un shell]	iderwear M	
耐干摩擦色牢厚[成品粉~中海面料]		
Colour fastress to it rubbing[Finished product: pink un	nderwear M	
shell]		







广州检验检测认证集团有限公司

国家纺织品服装服饰产品质量检验检测中心(广州 国家皮革制品质量检验检测中心(广东) 中国产业用纺织品行业测试中心(广东







Test Report



Verification Website: www.gttctech.com Verification Code: YHJF-1096-04

Issue Date 签发日期: 2024-02-23 Colour fastness to washing with soap or soap and soda[Finished M

product: purple underwear shell] 耐皂洗色牢度[成品灰紫色内裤面料]

Colour fastness to perspiration[Finished product: purple underwear shell]

耐汗渍色牢度[成品灰紫色内裤面料]

Colour fastness to water[Finished product: purple underwear shell]

耐水色牢度[成品灰紫色内裤面料]

Colour fastness to dry rubbing[Finished product: purple underwear shell1

耐干摩擦色牢度[成品灰紫色内裤面料]

Colour fastness to wet rubbing[Finished product: purple underwear shell]

耐湿摩擦色牢度[成品灰紫色内裤面料]

Colour fastness to washing with soap or soap a hed product: green underwear shell]

耐皂洗色牢度[成品绿色内裤面料]

Colour fastness to perspiration[Finished roduct green M underwear shell]

耐汗渍色牢度[成品绿色内裤面料]

Colour fastness to water[Finish pr auct: reen underwear M

耐水色牢度[成品绿色内裤面料]

Colour fastness to dry rux Tinger shed product: green M underwear shell]

耐干摩擦色牢度[成品

et rubt ng[Finished product: green Colour fastness to underwear she

耐湿摩擦色牢度[成品量色内裤面料]

s to vashing with soap of which will soap of the soap Colour fastn ashing with soap or soap and soda[Finished M

product: light

耐皂洗色牢度[成品浅黄色内裤面料]











广州检验检测认证集团有限公司 Guangzhou Inspection Testing and Certification Group Co., Ltd.

国家纺织品服装服饰产品质量检验检测中心(广州 kaltoral calaly inspector and leafup Center for featile Cammet and Accessories(Gaugeton) 国家皮革制品质量检验检测中心(广东) kanala Gashi pingection art feating Center to Leafuh Productive January 中国产业用纺织品行业测试中心(广东)







Test Report



Verification Website: www.gttctech.com Verification Code: YHJF-1096-04

No: 240036060 Issue Date 签发日期: 2024-02-23 Colour fastness to perspiration[Finished product: light yellow M underwear shell]

耐汗渍色牢度[成品浅黄色内裤面料]

Colour fastness to water[Finished product: light yellow

underwear shell]

耐水色牢度[成品浅黄色内裤面料]

Colour fastness to dry rubbing[Finished product: light yellow Munderwear shell]

耐干摩擦色牢度[成品浅黄色内裤面料]

Colour fastness to wet rubbing[Finished product: light yellow M underwear shell]

耐湿摩擦色牢度[成品浅黄色内裤面料]

Colour fastness to washing with soap or soap and soda[Finish d M product: fleshcolor underwear shell]

耐皂洗色牢度[成品肉色内裤面料]

Colour fastness to perspiration[Finished product: fleshcolor underwear shell]

耐汗渍色牢度[成品肉色内裤面料]

Colour fastness to water[Finished product flesh plor underwear M shell]

耐水色牢度[成品肉色内裤面料]

Colour fastness to dry rubbing[1 nisted product: fleshcolor underwear shell]

耐干摩擦色牢度[成品肉色内裤面料

Colour fastness to wet rus Ing. Shed product: fleshcolor underwear shell]

耐湿摩擦色牢度[成品肉色内衣面本]

Appearance quality piece: light yellow underwear]

外观质量[1条》、黄色内外

Banned azo alourant [Light yellow underwear lining fabric]

可分解致癌芳~ 安染料 [浅黄色内裤底裆布料]



M



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Test Report



Verification Website: www.gttctech.com Verification Code: YHJF-1096-04

Issue Date 签发日期: 2024-02-23

Banned azo colourants[Finished product: light yellow underwear M shell including print]

可分解致癌芳香胺染料[成品浅黄色内裤面料含印花部位]

Note: "M"-Meet the standard's requirement "F"-Fail to meet the standard's requirement "---"-No comment 番注: "M" -符合标准要求 "F" -不符合标准要求 "---" -此项目不判定

Remark:

Remark:
Qualified product (样品按合格品判定)
All the tested items are tested under the standard condition (except for indication).
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The experiment was carried out at No.1, Zhujiang Road, Panyu District, Zangs ou, Gua 本报告检验检测地址为广州市番禺区珠江路1号。 u, Guangdong, P. R. Chi na.



























































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Test Report





























广州检验检测认证集团有限公司 国家纺织品服装服饰产品质量检验检测中心(广州) 国家皮革制品质量检验检测中心(广东) 中国产业用纺织品行业测试中心(广东)







Test Report

No: 240036060

Dimensional stability to washing(%)[Finished product: light yellow underwear]

水洗尺寸变化率(%)[成品浅黄色内裤]

(GB/T 8629-2001, Type A washing machine A型洗衣机, Procedure 程序: Simulated hand washing 仿手洗, Line dry 悬挂晾干)

> Length 直向 +0.9 Width 横向 -1.0

Requirement 要求 Length 直向 ≥-7.0

Width 横向 No requirement for elastic products 弹力产品不考核

(FZ/T 73024-2014)

Remark注: (-)means shrinkage and (+)means extension - 表示收缩

Pilling(Grade)[Light yellow underwear shell fabric] 起球(级)[浅黄色内裤面料布料]

600 сў (GB/T 4802.1-2008, Circular Locus method 圆轨迹法, Pilling 600次 Pressure 压力: 780 cN)

4-5

Requirement

 $\geq 2-3$

(FZ/T 7:

Fibre composition(%)[Light yellow underwear lining 纤维含量(%)[浅黄色内裤底裆布料]

(FZ/T 01057, 1-2007, FZ/T 01057, 2-2007, FZ/T 010 T 01057, 4-2007

ĠB/T 38015-2019)

潮率含量): (Integrate with conventional moisture r

Pol yami de 锦纶 Polyester 聚酯纤维 52.2 28.9 18.9

Elastane 氨纶

Fibre composition(%)[Light yello 纤维含量(%)[浅黄色内裤面料布料] underwe shell fabric]

(FZ/T 01057.1-2007, FZ/T 010X). 07, FZ/T 01057. 3-2007, FZ/T 01057. 4-2007,

GB/T 38015-2019)

(Integrate with conver ture regain 结合公定回潮率含量):

Pol yami de 锦纶

Elastane 氨纶

pH value[Light yepH值[浅黄色内裤底 rwear lining fabric] I ow und 布料]

KCI extracting solution 0.1mol/L KCI 溶液萃取)

Requirement 要求

..4.0~7.5 Class A A类

(GB 18401-2010)

pH value[Light yellow underwear shell fabric] pH值[浅黄色内裤面料布料]

(GB/T 7573-2009, 0. 1mol/L KCI extracting solution 0. 1mol/L KCI 溶液萃取)

Requirement 要求

..4.Ò~7.5 Class A A类

(GB 18401-2010)











No: 240036060 Formal dehyde content(mg/kg)[Finished product: light yellow underwear including print] 甲醛含量(mg/kg)[成品浅黄色内裤含印花部位] (GB/T 2912.1-2009, Water extraction method 水萃取法) Requirement 要求 ≤20 Class A A类 ND (GB 18401-2010) (Detection limit 检出限:20) Remark注: "ND" means less than the detection limit. 结果未检出表示含量低于 Determination of odours[Finished product: light yellow underwear] 异味[成品浅黄色内裤] (GB 18401-2010 6.7) Requirement 要求 No abnormal odour 无异味 No abnormal odour (GB 18401-2010) Colour fastness to washing with soap or soap and soda(Grade) product: pink underwear shell] 耐皂洗色牢度(级)[成品粉色内裤面料 (GB/T 3921-2008, A(1), 40°C) Requirement 要求 ≥3 ≥3 Colour change Colour staining 沾色 醋纤 (FZ/T 73024-2014) Acetate 棉 4-5 Cotton - Polyamide 锦纶 4-5 - Polyester 涤纶 4-5 4-5 - Acrylic - Wool Colour fastness to perspiration shed product: pink underwear 耐汗渍色牢度(级)[成品粉色内裤 (GB/T 3922-2013) Alkaline 碱 Requirement 要求 Colour change ≥3-4 Colour staining ≥3-4 (GB 18401-2010) Acetate 醋 4-5 Cotton 4-5 Pol yami d 4-5 Polyest 4-5 Acrylia 腈纶 4-5 Colour fastne o water(Grade)[Finished product: pink underwear shell] 耐水色牢度(级)[成品粉色内裤面料] (GB/T 5713-2013) Requirement 要求 ≥3-4 Colour change Colour staining 沾色 - Acetate 醋纤 -----≥3-4 4-5 (GB 18401-2010) 4-5 Cotton - Pol yami de 锦纶 4-5 - Polyester 涤纶 4-5

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国家皮革制品质量检验检测中心(广东) 中国产业用纺织品行业测试中心(广东)







Test Report

No: 240036060 Colour fastness to dry rubbing(Grade)[Finished product: pink underwear 耐干摩擦色牢度(级)[成品粉色内裤面料 (GB/T 3920-2008) Requirement 要求 4-5 ≥ 4 (GB 18401-2010) Colour fastness to wet rubbing(Grade)[Finished product: pink underwear 耐湿摩擦色牢度(级)[成品粉色内裤面料 (GB/T 3920-2008) 4-5 Colour fastness to washing with soap or soap and soda(Grade) product: purple underwear shell] 耐皂洗色牢度(级)[成品灰紫色内裤面料 (GB/T 3921-2008, A(1), 40° C) Requirement 要求 Colour change ≥3 Colour staining 沾色 (FZ/T 73024-2014) 醋纤 Acetate 4-5 4-5 棉 Cotton - Polyamide 锦纶 涤纶 4-5 Pol yester - Acrylic 4-5 4-5 - Wool Colour fastness to perspiration shed product: purple underwear 耐汗渍色牢度(级)[成品灰紫色内 (GB/T 3922-2013) Alkaline 碱 Requirement 要求 Colour change ≥3-4 Colour staining ≥3-4 Acetate (GB 18401-2010) 醋纸 4-5 Cotton 4-5 Pol yami de 4-5 - Polýest 4-5 腈纶 4-5 Acrylic - Wool water(Grade)[Finished product: purple underwear shell] 耐水色牢度(级)[成品灰紫色内裤面料] (GB/T 5713-2013) Requirement 要求 $\geqslant 3-4$ $\geqslant 3-4$ Colour change Colour staining 沾色 (GB 18401-2010) 醋纤 ----4-5 Acetate - Cotton 4-5 - Polyamide 锦纶 4-5 - Polyester 涤纶 4-5

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No: 240036060 Colour fastness to dry rubbing(Grade)[Finished product: purple underwear 耐干摩擦色牢度(级)[成品灰紫色内裤面料 (GB/T 3920-2008) Requirement 要求 4-5 ≥ 4 (GB 18401-2010) Colour fastness to wet rubbing(Grade)[Finished product: purple underwear 耐湿摩擦色牢度(级)[成品灰紫色内裤面料 (GB/T 3920-2008) 4-5 Colour fastness to washing with soap or soap and soda(Grade) product: green underwear shell] 耐皂洗色牢度(级)[成品绿色内裤面料 (GB/T 3921-2008, A(1), 40° C) Requirement 要求 Colour change ≥3 Colour staining 沾色 醋纤 (FZ/T 73024-2014) Acetate 4-5 4-5 棉 Cotton - Polyamide 锦纶 涤纶 4-5 Pol yester - Acrylic 4-5 - Wool 4-5 Colour fastness to perspiration shed product: green underwear shell] 耐汗渍色牢度(级)[成品绿色内褐 (GB/T 3922-2013) Alkaline 碱 Requirement 要求 Colour change ≥3-4 Colour staining ≥3-4 Acetate (GB 18401-2010) 醋纸 4-5 Cotton 4-5 Pol yami de 4-5 - Polýest 4-5 腈纶 4-5 Acrylic - Wool water(Grade)[Finished product: green underwear shell] 耐水色牢度(级)[成品绿色内裤面料] (GB/T 5713-2013) Requirement 要求 ≥3-4 Colour change Colour staining 沾色 ≥3-4 (GB 18401-2010) 醋纤 ----4-5 Acetate - Cotton 4-5 - Polyamide 锦纶 4-5 - Polyester 涤纶 4-5

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No: 240036060 Colour fastness to dry rubbing(Grade)[Finished product: green underwear 耐干摩擦色牢度(级)[成品绿色内裤面料 (GB/T 3920-2008) Requirement 要求 4-5 ≥ 4 (GB 18401-2010) Colour fastness to wet rubbing(Grade)[Finished product: green underwear 耐湿摩擦色牢度(级)[成品绿色内裤面料 (GB/T 3920-2008) 4-5 Colour fastness to washing with soap or soap and soda(Grade) product: light yellow underwear shell] 耐皂洗色牢度(级)[成品浅黄色内裤面料 (GB/T 3921-2008, A(1), 40° C) Requirement 要求 Colour change ≥3 Colour staining 沾色 (FZ/T 73024-2014) 醋纤 Acetate 4-5 4-5 棉 Cotton - Polyamide 锦纶 - Polyester 涤纶 4-5 - Acrylic 4-5 - Wool 4-5 Colour fastness to perspiration shed product: light yellow underwear shell] 耐汗渍色牢度(级)[成品浅黄色] (GB/T 3922-2013) Alkaline 碱 Requirement 要求 ≥3-4 Colour change Colour staining ≥3-4 Acetate (GB 18401-2010) 醋纸 4-5 Cotton 4-5 Pol yami de 4-5 涤纶 Pol yest 4-5 腈纶 4-5 Acrylic - Wool 4-5 water(Grade)[Finished product: light yellow underwear Colour fastr shell] 耐水色牢度(级)[成品浅黄色内裤面料] (GB/T 5713-2013) Requirement 要求 ≥3-4 Colour change Colour staining 沾色 ≥3-4 (GB 18401-2010) (IIII M 7 醋纤 Acetate Cotton 棉 4-5 - Polyamide 锦纶 4-5 - Polyester 涤纶 4-5 - Acrylic 腈纶 4-5 羊手 4-5 Wool

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No: 240036060 Colour fastness to dry rubbing(Grade)[Finished product: light yellow underwear shell] 耐干摩擦色牢度(级)[成品浅黄色内裤面料 (GB/T 3920-2008) Requirement 要求 4-5 ≥ 4 (GB 18401-2010) Colour fastness to wet rubbing(Grade)[Finished product: light yellow underwear shell] 耐湿摩擦色牢度(级)[成品浅黄色内裤面料 (GB/T 3920-2008) 4-5 Colour fastness to washing with soap or soap and soda(Grade) product: fleshcolor underwear shell] 耐皂洗色牢度(级)[成品肉色内裤面料 (GB/T 3921-2008, A(1), 40° C) Requirement 要求 Colour change ≥3 Colour staining 沾色 (FZ/T 73024-2014) Acetate 醋纤 - Cotton 棉 4-5 4-5 - Polyamide 锦纶 - Polyester 涤纶 4-5 - Acrylic 4-5 - Wool 4-5 Colour fastness to perspiration shed product: fleshcolor underwear shell] 耐汗渍色牢度(级)[成品肉色内褶 (GB/T 3922-2013) Alkaline 碱 Requirement 要求 ≥3-4 Colour change Colour staining ≥3-4 Acetate 醋 (GB 18401-2010) 4-5 - Cotton 4-5 Pol yami de 4-5 涤纶 Polyest 4-5 腈纶 4-5 Acrylic - Wool 4-5 water(Grade)[Finished product: fleshcolor underwear Colour fastr shell] 耐水色牢度(级)[成品肉色内裤面料] (GB/T 5713-2013) Requirement 要求 ≥3-4 Colour change Colour staining 沾色 - Acetate 醋纤-----≥3-4 (GB 18401-2010) (IIII M 7 Cotton 棉 4-5 - Polyamide 锦纶 4-5 - Polyester 涤纶 4-5 - Acrylic 腈纶 4-5 羊手 4-5 Wool

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广州检验检测认证集团有限公司 Guangzhou Inspection Testing and Certification Group Co., Ltd. 国家纺织品服装服饰产品质量检验检测中心广州) Instanto Light Inspection at Insetting and Inconsension

国家皮革制品质量检验检测中心(广东)
Rational Qualify inspection and Testing Center for Leather Productio Guarantees 中国产业用纺织品行业测试中心(广东)







Test Report

No: 240036060

Colour fastness to dry rubbing(Grade)[Finished product: fleshcolor underwear shell]

耐干摩擦色牢度(级)[成品肉色内裤面料]

(GB/T 3920-2008)

4-5

Requirement 要求

 ≥ 4

(GB 18401-2010)

Colour fastness to wet rubbing(Grade)[Finished product: fleshcolor

underwear shell]

耐湿摩擦色牢度(级)[成品肉色内裤面料]

(GB/T 3920-2008)

4-5

Appearance quality[1 piece : light yellow underwear] 外观质量[1条浅黄色内裤]

(GB/T 8878-2014 5.2)

Pass (dimension is not tested) 符合要求 (规格未检测)

the clause 4.4 of the dard 按标准4.4条要求

















No: 240036060

Banned azo colourants[Light yellow underwear lining fabric] 可分解致癌芳香胺染料[浅黄色内裤底裆布料] Test method:

测试方法

GB/T 17592-2011 General pretreatment 常规前处理方法

Forbi dden ami ne	禁用芳香胺名称	CAS No. 化学文摘编号	Requirement 标准要求 (mg/kg)	Result 检验检测结果 (mg/kg)
4-Ami nobi phenyl	4-氨基联苯	92-67-1	€20	ND
Benzi di ne	联苯胺	92-87-5	10	ND
4-Chl oro-o-tol ui di ne	4-氯-邻甲苯胺	95-69-2	€20	ND
2-Naphthyl ami ne	2-萘胺	1-59	€20	ND
o-Ami noazotol uene	邻氨基偶氮甲苯	97-56-3	€20	ND
5-Ni tro-o-tol ui di ne	5-硝基-邻甲苯胺	99, 5-8	€20	ND
4-Chloroaniline	对氯苯胺	106-4)-8	€20	ND
2, 4-Di ami noani sol e	2,4-二氨基苯甲醚	415-05-4	€20	ND
4,4' -Diaminodiphenylmethane	4,4'-二氨基二苯甲烷	101-77-9	€20	ND
3,3' -Dichlorobenzidine	3,3'-二氯联苯胺	91-94-1	€20	ND
3,3' -Dimethoxybenzidine	3,3'一二甲氨二苄苯胺	119-90-4	€20	ND
3,3' -Dimethylbenzidine	3,3'一个基联苯胺	119-93-7	≤20	ND
3,3' -Dimethyl-4,4' -diaminodiphenylmethane	3, 2▲-二年 1-4, 4'- 氨基二苯甲烷	838-88-0	€20	ND
p-Cresi di ne	2-甲氧、5-甲、6	120-71-8	€20	ND
4,4'-Methylene-bis-(2-chloroaniline)	4. / - 亚甲、二-(2-氯苯胺)	101-14-4	€20	ND
4,4' -Oxydianiline	4, 4'-二氨基二苯醚	101-80-4	€20	ND
4,4' -Thiodianiline	4, -二氨基二苯硫醚	139-65-1	€20	ND
o-Tol ui di ne	邓甲苯胺	95-53-4	€20	ND
2, 4-Tol uyl endi ami ne	2,4-二氨基甲苯	95-80-7	€20	ND
2, 4, 5-Tri methyl ani l i ne	2, 4, 5-三甲基苯胺	137-17-7	€20	ND
0-Ani si di ne	邻氨基苯甲醚	90-04-0	€20	ND
2, 4-Xyl i di ne	2,4-二甲基苯胺	95-68-1	€20	ND
2, 6-Xyl i di ne	2,6-二甲基苯胺	87-62-7	≤20	ND
4-Ami noazobenzene	4-氨基偶氮苯	60-09-3	€20	ND

[&]quot;ND" means less than the detection limit of 5mg/kg 结果未检出表示含量低于检出限:5mg/kg

Rating according to GB 18401-2010. 该项目按照GB 18401-2010 标准判定。

Overall rating 本项判定

Pass 符合















No: 240036060

Banned azo colourants[Finished product: light yellow underwear shell including print] 可分解致癌芳香胺染料[成品浅黄色内裤面料含印花部位]
Test method:

测试方法

GB/T 17592-2011 General pretreatment 常规前处理方法

Forbi dden ami ne	禁用芳香胺名称	CAS No. 化学文摘编号	Requirement 标准要求 (mg/kg)	Result 检验检测结果 (mg/kg)
4-Ami nobi phenyl	4-氨基联苯	92-67-1	≤20	ND
Benzi di ne	联苯胺	92-87-5	10	ND
4-Chl oro-o-tol ui di ne	4-氯-邻甲苯胺	95-49-2	≤20	ND
2-Naphthyl ami ne	2-萘胺	1-59-	€20	ND
o-Ami noazotol uene	邻氨基偶氮甲苯	97-56-3	€20	ND
5-Ni tro-o-tol ui di ne	5-硝基-邻甲苯胺	99. 5-8	€20	ND
4-Chl oroani l i ne	对氯苯胺	106-47-8	€20	ND
2, 4-Di ami noani sol e	2,4-二氨基苯甲醚	(15-05-4	≤20	ND
4,4' -Diaminodiphenylmethane	4,4'-二氨基二苯甲化	101-77-9	€20	ND
3,3' -Dichlorobenzidine	3,3'-二氯联苯胺	91-94-1	€20	ND
3,3' -Dimethoxybenzidine	3,3'一二甲氨二苄苯胺	119-90-4	€20	ND
3,3' -Dimethylbenzidine	3,3' - 卢基联苯胺	119-93-7	≤20	ND
3,3' -Dimethyl-4,4' -diaminodiphenylmethane	3, 2▲-二年 t-4, 4'- 氨基二苯甲烷	838-88-0	€20	ND
p-Cresi di ne	2-甲氧、5-甲、6	120-71-8	€20	ND
4,4'-Methylene-bis-(2-chloroaniline)	4. / - 亚甲、二-(2-氯苯胺)	101-14-4	€20	ND
4,4' -Oxydianiline	4,4'-二氨基二苯醚	101-80-4	≤20	ND
4,4' -Thiodianiline	4, 一二氨基二苯硫醚	139-65-1	≤20	ND
o-Tol ui di ne	邓甲苯胺	95-53-4	€20	ND
2, 4-Tol uyl endi ami ne	2,4-二氨基甲苯	95-80-7	€20	ND
2, 4, 5-Tri methyl ani li ne	2, 4, 5-三甲基苯胺	137-17-7	€20	ND
0-Ani si di ne	邻氨基苯甲醚	90-04-0	€20	ND
2, 4-Xyl i di ne	2,4-二甲基苯胺	95-68-1	€20	ND
2, 6-Xyl i di ne	2,6-二甲基苯胺	87-62-7	€20	ND
4-Ami noazobenzene	4-氨基偶氮苯	60-09-3	€20	ND

[&]quot;ND" means less than the detection limit of 5mg/kg 结果未检出表示含量低于检出限:5mg/kg

Rating according to GB 18401-2010. 该项目按照GB 18401-2010 标准判定。

Overall rating 本项判定

Pass 符合





注意事项

- 1. 报告书未加盖检测单位检验检测专用章无效。
- 2. 复印件未加盖检测单位报告确认章无效。
- 3. 对委托送检结果有异议的,应于报告书送达之日起十五日内提出。
- 4. 检测结果仅对所检样品有效。
- 5. 未取得资质认定的项目,仅作为科研、教学或内部质量控制之用。
- 6. 报告书涂改无效。
- 7. 客户提供的信息(包括样品信息),本公司/中心不对其真实性负责。
- 8. 未经本公司/中心书面批准不得部分复制本报告,全部复制除外。

Note

- 1. The report is invalid without authorized stamp.
- 2. Copies of this report are invalid without authorized stamp.
- 3. Any dispute should be raised within 15 days after receiving the report.
- 4. The result is only valid for the tested sample.
- 5. The results of unapproved items are for reference only.
- 6. This report is invalid if altered.
- 7.Our company does not accept any responsibility for the as benticity of the information supplied by customers (including sample information).
- 8. The report shall not be duplicated separately or partly, without prior written permission approved by GTTC, except duplicated in full exists.



SL92409288553001TX **Test Report** Date: April 15,2024 Page 1 of 11

INNOTIER LIMITED

2ND FLOOR, ASTORIA HOUSE, 62 SHAFTESBURY AVENUE, ENGLAND, LONDON, W1D 6LT, United Kingdom

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

Sample Description ANTIMICROBIAL UNDERWEAR

Style No. GP-M1 Retest No

Sample Receiving Date Apr 03, 2024

Testing Period Apr 08, 2024 - Apr 15, 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).

Test Performed Selected test(s) as requested by applicant

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

King Cho (Section Head)



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SL92409288553001TX

Date: April 15,2024 Page 2 of 11

The below test was conducted in SGS Shanghai Lab.

Test Result

<u>Liquid Moisture Management Properties of Textile Fabrics</u>

(AATCC TM 195-2011e2(2017)e4)

(A)

1 Test Equipment: Moisture Management Tester (MMT)

- 2 Orientation of fabric: Fabric is put between two layer of sensors (Top and bottom layer of sensor) with fabric face side facing downward.
- 3 Applied solution: 0.2 mL of salt solution is applied to the fabric back side (skin contact side of fabric)

Test sample: As Received

Results:

Liquid moisture management indices	Average	Standard	Grade	Client's
		deviation		Requirement
Top wetting time, WT _T (second)	9.0418	0.3778	3	/
Bottom wetting time, WT _B (second)	9.3416	0.3707	3	/
Top absorption rate, AR _T (%/second)	72.6793	8.6753	4	/
Bottom absorption rate, AR _B (%/second)	104.0525	4.9286	5	/
Top max wetting radius, MWR _T (mm)	20	0	4	/
Bottom max wetting radius, MWR _B (mm)	20	0	4	/
Top spreading speed, SS _T (mm/second)	2.1655	0.1661	3	/
Bottom spreading speed, SS _B (mm/second)	2.1838	0.1893	3	/
One way transport capability, R (%)	15.1985	24.3055	2	/
Overall moisture management capacity, OMMC	0.4209	0.0283	3	/

Note: Top is skin contact side of fabric; Bottom is outer side of fabric.



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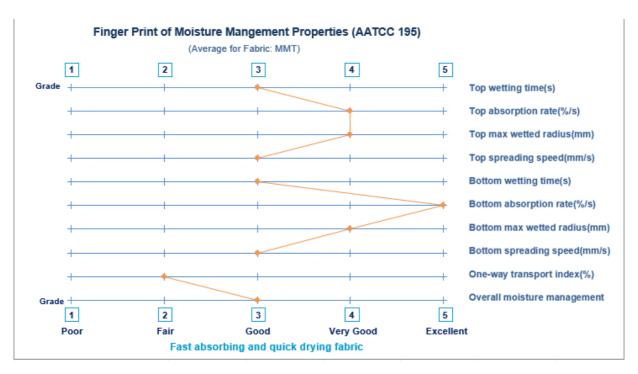
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中国・广东・广州高新技术产业开发区科学城科珠路198号 邮编: 510663 t (86–20) 82155555 f (86–20) 82075169 sgs.china@sgs.com



SL92409288553001TX

Date: April 15,2024 Page 3 of 11



Fabric category (with reference to MMT operation manual):

Test sample is classified as a Fast absorbing and quick drying fabric



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SL92409288553001TX

Date: April 15,2024 Page 4 of 11

(B)

1 Test Equipment: Moisture Management Tester (MMT)

- Orientation of fabric: Fabric is put between two layer of sensors (Top and bottom layer of sensor) with fabric face side facing downward.
- 3 Applied solution: 0.2 mL of salt solution is applied to the fabric back side (skin contact side of fabric)

Test sample: As Received

Results:

Liquid moisture management indices	Average	Standard	Grade	Client's
		deviation		Requirement
Top wetting time, WT _T (second)	3.3696	0.0661	4	/
Bottom wetting time, WT _B (second)	3.4632	0.0661	4	/
Top absorption rate, AR _T (%/second)	86.9359	3.3653	4	/
Bottom absorption rate, AR _B (%/second)	96.1062	1.5533	4	/
Top max wetting radius, MWR _T (mm)	28	2.7386	5	/
Bottom max wetting radius, MWR _B (mm)	30	0	5	/
Top spreading speed, SS _T (mm/second)	4.718	0.177	5	/
Bottom spreading speed, SS _B (mm/second)	4.7023	0.0803	5	/
One way transport capability, R (%)	60.1847	21.7423	2	
Overall moisture management capacity, OMMC	0.6116	0.0245	4	

Note: Top is skin contact side of fabric; Bottom is outer side of fabric.



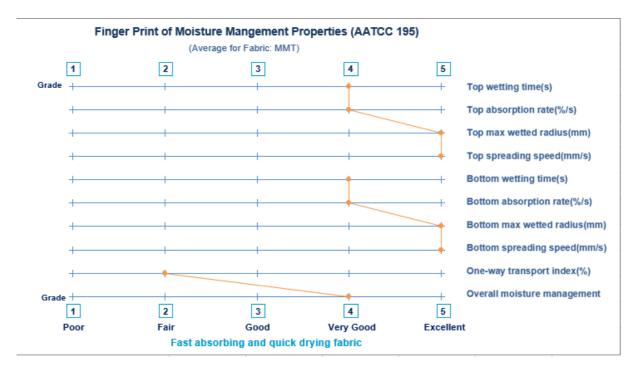
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SL92409288553001TX

Date: April 15,2024 Page 5 of 11



Fabric category (with reference to MMT operation manual):

Test sample is classified as a Fast absorbing and quick drying fabric



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SL92409288553001TX

Date: April 15,2024 Page 6 of 11

(C)

1 Test Equipment: Moisture Management Tester (MMT)

- 2 Orientation of fabric: Fabric is put between two layer of sensors (Top and bottom layer of sensor) with fabric face side facing downward.
- 3 Applied solution: 0.2 mL of salt solution is applied to the fabric back side (skin contact side of fabric)

Test sample: As Received

Results:

Liquid moisture management indices	Average	Standard	Grade	Client's
		deviation		Requirement
Top wetting time, WT _T (second)	3.4632	0.1478	4	/
Bottom wetting time, WT _B (second)	3.6132	0.1937	4	/
Top absorption rate, AR _T (%/second)	93.6114	5.6342	4	/
Bottom absorption rate, AR _B (%/second)	102.5979	1.9729	5	/
Top max wetting radius, MWR _T (mm)	25	0	5	/
Bottom max wetting radius, MWR _B (mm)	26	2.2361	5	/
Top spreading speed, SS _T (mm/second)	5.0422	0.5933	5	/
Bottom spreading speed, SS _B (mm/second)	4.9624	0.6143	5	/
One way transport capability, R (%)	-0.1481	28.7337	2	
Overall moisture management capacity, OMMC	0.5554	0.0319	3	

Note: Top is skin contact side of fabric; Bottom is outer side of fabric.



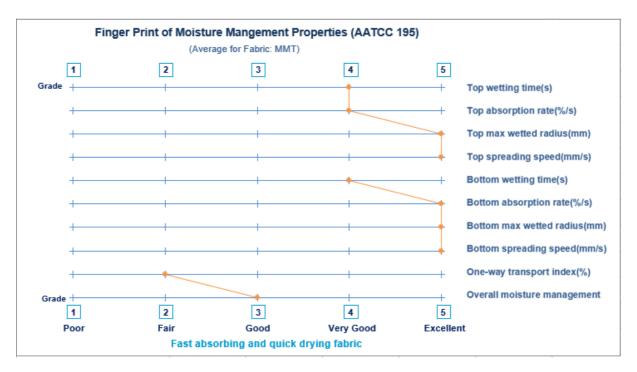
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SL92409288553001TX

Date: April 15,2024 Page 7 of 11



Fabric category (with reference to MMT operation manual):

Test sample is classified as a Fast absorbing and quick drying fabric

Remarks:

The Moisture Management Tester (MMT) distinguish the nature of fabrics (within seven major types of fabric categories) based on the following liquid moisture transfer properties measured.



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SL92409288553001TX

Date: April 15,2024 Page 8 of 11

Fabric category	Character of liquid moisture transfer
Moisture management fabric	- Medium to fast wetting
	- Medium to fast absorption
	- Large spread area at bottom surface
	- Fast spreading at bottom surface
	- Good to excellent one-way transport
Fast absorbing and quick drying fabric	- Medium to fast wetting
	- Medium to fast absorption
	- Large spreading area
	- Fast spreading
	- Poor one-way transport
Fast absorbing and slow drying fabric	- Medium to fast wetting
	- Medium to fast absorption
	- Small spreading area
	- Slow spreading
	- Poor one-way transport
Slow absorbing and slow drying fabric	- Slow absorption
	- Slow spreading
	- Poor one-way transport
Water penetration fabric	- Small spreading area
·	- Excellent one-way transport
Water repellent fabric	- No wetting
	- No absorption
	- No spreading
	- Poor one-way transport without external forces
Water proof fabric	- Very slow absorption
	- Slow spreading
	- No one-way transport, no penetration



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SL92409288553001TX

Date: April 15,2024 Page 9 of 11

- (2) Moisture management indices:
 - 1 Wetting time top the time period when the top surface of the specimen just starts to get wetted
 - Wetting time bottom the time period when the bottom surface of the specimen just starts to get wetted
 - Top absorption rate the average moisture absorption rate for top surface of the specimen during the rise of water content
 - Bottom absorption rate the average moisture absorption rate for bottom surface of the specimen during the rise of water content
 - 5 Top maximum wetted radius maximum wetted radius at the top surface
 - 6 Bottom maximum wetted radius maximum wetted radius at the bottom surface
 - 7 Top spreading speed the accumulative spreading speed from the centre to the maximum wetted radius at the top surface
 - 8 Bottom spreading speed the accumulative spreading speed from the centre to the maximum wetted radius at the bottom surface
 - 9 Accumulative one-way transport index the difference of the accumulative moisture content between the two surfaces of the fabric in unit time
 - Overall moisture management capability (OMMC) indicates the overall capability of the fabric to manage the transport of liquid moisture, which includes three aspects of performances:
 - a) Moisture absorption rate at the bottom surface
 - b) One-way liquid transport capacity
 - c) Moisture spreading speed at the bottom surface, which is represented by the maximum spreading speed



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SL92409288553001TX

Date: April 15,2024 Page 10 of 11



End of Report



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SL92409288553001TX

Date: April 15,2024 Page 11 of 11

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