

测试报告

Test report

T-25243826-10-R1



Verify Report

结论

Overall result

所有检测项目符合标准要求

Pass

备注：本检测结论是对所有检测项目是否符合标准要求进行的判定，检测结果详见后页。

The overall result is given based on all the tests conducted in this report. Please refer to the following pages for test result summary and notes.

客户信息

Client information

客户名称：Star-Tags Textilimport und Merchandising

Client: GmbH

地址：Frei-Otto-Strasse 6, 80797 Muenchen

Address:



样品信息

Sample information

样品描述：AUDI SPORT CAP, SCHWARZ

Description:

SKU 号/款号：3132501200

SKU/style #:

原产地：-

Country of origin:

发行/销售地区：-

Country of distribution:

成分：100% Polyester

Composition:

买家：AUDI COLLECTION / CYBER-WEAR

Buyer: HEIDELBERG GMBH

Article No.: 3132501200

收样数量：5 pcs + a lot parts

Quantity submitted:

订单编号：2025-310773

Purchase order #:

产品标识年龄：-

Labeled age grade:

客户要求测试年龄：Adult

Requested age grade:

建议测试年龄：-

Recommended age grade:

实际测试年龄：-

Tested age grade:

Age Group: Adult



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报告编号
Test report #
T-25243826-10-R1

报告发布日期
Report date
2025 年 5 月 16 日
16-May-2025

基本信息

General information

样品接收日期: 2025 年 5 月 9 日
Sample receipt date: 09-May-2025
测试周期: 2025 年 5 月 12 日 至
Testing period: 2025 年 5 月 16 日
12-May-2025 to 16-May-2025

报告发布日期: 2025 年 5 月 16 日
Report date: 16-May-2025

启迈(杭州)检测有限公司
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测试结果汇总 Result summary

根据客户的要求，详细的测试项目如下：

At the request of the client, the following test were conducted:

测试项目 Test(s) conducted	结论 Conclusion
GB 18401-2010 国家纺织品基本安全技术规范 - pH 值测定 GB 18401-2010 National General Safety Technical Code for Textile Products, Determination of pH of aqueous extract	符合 Pass
GB 18401-2010 国家纺织品基本安全技术规范 - 甲醛含量的测定 GB 18401-2010 National General Safety Technical Code for Textile Products, Formaldehyde	符合 Pass
GB 18401-2010 国家纺织品基本安全技术规范 - 禁用偶氮染料的测定 GB 18401-2010 National General Safety Technical Code for Textile Products, Azocolorants	符合 Pass
FZ/T 82002-2016 缝制帽-水洗后外观 FZ/T 82002-2016 Woven caps -Appearance Retention After Washing	符合 Pass
FZ/T 82002-2016 缝制帽-耐皂洗色牢度 FZ/T 82002-2016 Woven caps -Colorfastness to Washing	符合 Pass
FZ/T 82002-2016 缝制帽-耐汗渍色牢度 FZ/T 82002-2016 Woven caps -Colorfastness to Perspiration	符合 Pass
FZ/T 82002-2016 缝制帽-耐水色牢度 FZ/T 82002-2016 Woven caps -Colorfastness to Water	符合 Pass
FZ/T 82002-2016 缝制帽-耐摩擦色牢度 FZ/T 82002-2016 Woven caps -Colorfastness to Rubbing	符合 Pass
FZ/T 82002-2016 缝制帽-耐光照色牢度 FZ/T 82002-2016 Woven caps -Colorfastness to Light	符合 Pass
FZ/T 82002-2016 缝制帽-纤维含量 FZ/T 82002-2016 Woven caps -Fiber Content	符合 Pass
FZ/T 82002-2016 缝制帽-异味 FZ/T 82002-2016 Woven caps -Odour	符合 Pass
GB 18401-2010 国家纺织品基本安全技术规范 - 耐水色牢度 GB 18401-2010 National general safety technical code for textile products-Colorfastness to Water	符合 Pass
GB 18401-2010 国家纺织品基本安全技术规范 - 耐汗渍色牢度 GB 18401-2010 National general safety technical code for textile products-Colorfastness to Perspiration	符合 Pass
GB 18401-2010 国家纺织品基本安全技术规范 - 耐干摩擦色牢度 GB 18401-2010 National general safety technical code for textile products-Colorfastness to Rubbing(Dry)	符合 Pass
GB 18401-2010 国家纺织品基本安全技术规范 - 纺织品异味测试 GB 18401-2010 National general safety technical code for textile products-Determination of Abnormal Odor in Textiles	符合 Pass

注释：

Note:

本检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

This report is for client internal use only such internal scientific research, education, quality control, product R&D.



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详细结果 Detailed results

GB 18401-2010 国家纺织品基本安全技术规范 - pH 值测定
GB 18401-2010 National General Safety Technical Code for Textile Products, Determination of pH of aqueous extract

测试方法: GB/T 7573 2009
Test Method: GB/T 7573:2009
测试仪器: pH 计
Test instrument: pH-meter

样品编号 Specimen No.	1	2	3	5	6	限值 Limit
测试项目 Test Item	结果 Result	结果 Result	结果 Result	结果 Result	结果 Result	
pH	6.2	6.4	6.6	5.9	6.3	4.0~8.5
结论 Conclusion	符合 Pass	符合 Pass	符合 Pass	符合 Pass	符合 Pass	

备注:
Note:
萃取溶液: 0.1 mol/L KCl
Extraction solution: 0.1 mol/L KCl
萃取溶液 pH 值= 5.7
pH value of extraction solution=5.7



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详细结果 Detailed results

GB 18401-2010 国家纺织品基本安全技术规范 - 甲醛含量的测定 GB 18401-2010 National General Safety Technical Code for Textile Products, Formaldehyde

测试方法:
Test Method: GB/T 2912.1-2009
测试仪器:
Analytical Method: 紫外分光光度计
Ultraviolet-Visible Spectrophotometry

种类 Category	B: 纺织品与皮肤直接接触 B: Textile products with direct contact to skin				
样品编号 Specimen No.	1	2	3	4	5
测试项目 Test Item CAS No.	结果 Result (mg/kg)	结果 Result (mg/kg)	结果 Result (mg/kg)	结果 Result (mg/kg)	结果 Result (mg/kg)
甲醛 Formaldehyde 50-00-0	ND	ND	ND	ND	ND
结论 Conclusion	符合 Pass	符合 Pass	符合 Pass	符合 Pass	符合 Pass

备注:
Note:
mg/kg =毫克每千克
mg/kg = Milligrams per kilogram
LT =少于
LT = Less than
ND =未检出 (报告检出限= 20 mg/kg)
ND = Not detected (Reporting Limit = 20 mg/kg)

种类 Category	甲醛 Formaldehyde (mg/kg)
A: 婴儿纺织品 A: Textile products for infants	20
B: 纺织品与皮肤直接接触 B: Textile products with direct contact to skin	75
C: 纺织产品不直接接触皮肤 C: Textile products without direct contact to skin	300



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详细结果 Detailed results

GB 18401-2010 国家纺织品基本安全技术规范 - 甲醛含量的测定 GB 18401-2010 National General Safety Technical Code for Textile Products, Formaldehyde

测试方法:
Test Method: GB/T 2912.1-2009
测试仪器:
Analytical Method: 紫外分光光度计
Ultraviolet-Visible Spectrophotometry

种类 Category	B: 纺织品与皮肤直接接触 B: Textile products with direct contact to skin				
样品编号 Specimen No.	6	---	---	---	---
测试项目 Test Item CAS No.	结果 Result (mg/kg)	结果 Result (mg/kg)	结果 Result (mg/kg)	结果 Result (mg/kg)	结果 Result (mg/kg)
甲醛 Formaldehyde 50-00-0	ND	---	---	---	---
结论 Conclusion	符合 Pass	---	---	---	---

备注:
Note:
mg/kg =毫克每千克
mg/kg = Milligrams per kilogram
LT =少于
LT = Less than
ND =未检出 (报告检出限= 20 mg/kg)
ND = Not detected (Reporting Limit = 20 mg/kg)

种类 Category	甲醛 Formaldehyde (mg/kg)
A: 婴儿纺织品 A: Textile products for infants	20
B: 纺织品与皮肤直接接触 B: Textile products with direct contact to skin	75
C: 纺织产品不直接接触皮肤 C: Textile products without direct contact to skin	300



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详细结果

Detailed results

GB 18401-2010 国家纺织品基本安全技术规范 - 禁用偶氮染料的测定

GB 18401-2010 National General Safety Technical Code for Textile Products, Azocolorants

测试方法: GB/T 17592-2024, GB/T 23344-2009

Test Method:

测试仪器: 气相色谱-质谱联用仪

Analytical Method: Gas Chromatography with Mass Spectrometry

样品编号 Specimen No.		1+2+3	4+6	---	---	限值 Limit (mg/kg)
测试项目 Test Item	CAS No.	结果 Result (mg/kg)	结果 Result (mg/kg)	结果 Result (mg/kg)	结果 Result (mg/kg)	
4-氨基联苯 4-aminobiphenyl	92-67-1	ND	ND	---	---	20
联苯胺 Benzidine	92-87-5	ND	ND	---	---	20
4-邻氯甲苯胺 4-chloro-o-toluidine	95-69-2	ND	ND	---	---	20
2-萘胺 2-naphtylamine	91-59-8	ND	ND	---	---	20
邻氨基偶氮甲苯 o-aminoazotoluene	97-56-3	ND	ND	---	---	20
5-硝基-邻甲苯胺 5-nitro-o-toluidine	99-55-8	ND	ND	---	---	20
对氯苯胺 p-chloroaniline	106-47-8	ND	ND	---	---	20
二氨基苯甲醚 2,4-diaminoanisole	615-05-4	ND	ND	---	---	20
4, 4-二氨基二苯甲烷 4,4'-diaminodiphenyl methane	101-77-9	ND	ND	---	---	20
3, 3-二氯联苯胺 3,3'- dichlorobenzidine	91-94-1	ND	ND	---	---	20
3, 3-二甲氧基联苯胺 3,3'-dimethoxybenzidine	119-90-4	ND	ND	---	---	20
3, 3-二甲基联苯胺 3,3'- dimethylbenzidine	119-93-7	ND	ND	---	---	20
3, 3-二甲基-4, 4-二氨 基二苯甲烷 3,3'-dimethyl-4,4'- diaminodiphenyl methane	838-88-0	ND	ND	---	---	20
2-甲氧基-5-甲基苯胺 p- cresidine	120-71-8	ND	ND	---	---	20
4, 4-次甲基双(2-氯苯 胺) 4,4'-methylene-bis-(2- chloro-aniline)	101-14-4	ND	ND	---	---	20



4, 4-二氨基二苯醚 4,4'-oxydianiline	101-80-4	ND	ND	---	---	20
4, 4-二氨基二苯硫醚 4,4'-thiodianiline	139-65-1	ND	ND	---	---	20
邻甲苯胺 o-toluidine	95-53-4	ND	ND	---	---	20
2, 4-二氨基甲苯 2,4-toluylenediamine	95-80-7	ND	ND	---	---	20
2, 4, 5-三甲基苯胺 2,4,5-trimethylaniline	137-17-7	ND	ND	---	---	20
邻茴香胺 o-anisidine	90-04-0	ND	ND	---	---	20
4-对氨基偶氮苯 * 4-aminoazobenzene	60-09-3	ND	ND	---	---	20
2, 4-二甲苯胺 2,4 - xylidine	95-68-1	ND	ND	---	---	20
2, 6-二甲苯胺 2,6 - xylidine	87-62-7	ND	ND	---	---	20
结论 Conclusion		符合 Pass	符合 Pass	---	---	

备注:

Note:

mg/kg =毫克每千克

mg/kg = milligrams per kilogram

LT =少于

LT = Less than; MT = More than

ND = 未检出 (报告检出限 = 5 mg/kg)

ND = Not detected (Reporting limit = 5 mg/kg)

测试结果根据风险评估, 按照混合样品中质量最小的进行计算

Composite results are based on specimen of least mass resulting in highest potential concentration.



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详细结果

Detailed results

FZ/T 82002-2016 缝制帽

FZ/T 82002-2016 Woven caps

检验项目 Test Items		评判依据 Requirement		测试结果 Result	结论 Conclusion
水洗后外观 Appearance Retention After Washing					
测试方法: Test Method: GB/T 8629-2001 (程序仿手洗, 悬挂晾干, 温度 40 摄氏度) (Simulated hand wash, line dry, 40℃)	优等品&一等品&合格品 Superior&Class 1&Qualified	符合 GB/T 21295-2014 Comply with GB/T 21295-2014		7#: 符合要求 7#: Comply with Requirement	符合 Pass
耐皂洗色牢度 Colorfastness to Washing					
测试方法: Test Method: GB/T 3921-2008 A (1) (单位: 级) (Unit: grade)	优等品 Superior	变色: Color Change:	≥ 4		符合 Pass
		沾色: Color Staining:	≥ 4		
	一等品 Class 1	变色: Color Change:	≥3-4		
		沾色: Color Staining:	≥ 3-4		
	合格品 Qualified	变色: Color Change:	≥ 3	7#-帽檐: 4-5 7-Brim: 4-5 7#-大身: 4-5 7#-Body: 4-5 7#-汗带: 4-5 7-Sweatband: 4-5	
		沾色: Color Staining:	≥ 3	7#-帽檐: 棉 4-5 聚酯纤维 4-5 7#-Brim: Cotton 4-5 Polyester 4-5 7#-大身: 棉 4-5 聚酯纤维 4-5 7#-Body: Cotton 4-5 Polyester 4-5 7#-汗带: 棉 4-5 聚酯纤维 4-5 7#-Sweatband: Cotton 4-5 Polyester 4-5	
耐汗渍色牢度(酸性) Colorfastness to Perspiration (Acid)					
测试方法: Test Method: GB/T 3922-2013 (单位: 级) (Unit: Grade)	优等品 Superior	变色: Color Change:	≥ 4		符合 Pass
		沾色: Color Staining:	≥ 4		
	一等品	变色:	≥3-4		

检验项目 Test Items	评判依据 Requirement			测试结果 Result	结论 Conclusion
	Class 1	Color Change:			
		沾色: Color Staining:	≥ 3-4		
	合格品 Qualified	变色: Color Change:	≥ 3 (婴幼儿用品 Infant≥ 3-4)	7#-帽檐: 4-5 7-Brim: 4-5 7#-大身: 4-5 7#-Body: 4-5 7#-汗带: 4-5 7-Sweatband: 4-5	
		沾色: Color Staining:	≥ 3 (婴幼儿用品 Infant≥ 3-4)	7#-帽檐: 棉 4-5 聚酯纤维 4-5 7#-Brim: Cotton 4-5 Polyester 4-5 7#-大身: 棉 4-5 聚酯纤维 4-5 7#-Body: Cotton 4-5 Polyester 4-5 7#-汗带: 棉 4-5 聚酯纤维 4-5 7#-Sweatband: Cotton 4-5 Polyester 4-5	

耐汗渍色牢度(碱性)

Colorfastness to Perspiration (Alkaline)

测试方法: Test Method: GB/T 3922-2013 (单位: 级) (Unit: Grade)	优等品 Superior	变色: Color Change:	≥ 4		符合 Pass
		沾色: Color Staining:	≥ 4		
	一等品 Class 1	变色: Color Change:	≥3-4		
		沾色: Color Staining:	≥ 3-4		
	合格品 Qualified	变色: Color Change:	≥ 3 (婴幼儿用品 Infant≥ 3-4)	7#-帽檐: 4-5 7-Brim: 4-5 7#-大身: 4-5 7#-Body: 4-5 7#-汗带: 4-5 7-Sweatband: 4-5	
		沾色: Color Staining:	≥ 3 (婴幼儿用品 Infant≥ 3-4)	7#-帽檐: 棉 4-5 聚酯纤维 4-5 7#-Brim: Cotton 4-5 Polyester 4-5 7#-大身: 棉 4-5 聚酯纤维 4-5 7#-Body: Cotton 4-5 Polyester 4-5 7#-汗带: 棉 4-5 聚酯纤维 4-5 7#-Sweatband: Cotton 4-5 Polyester 4-5	

耐水色牢度

Colorfastness to Water

测试方法:		变色:	≥ 4		符合
-------	--	-----	-----	--	----

检验项目 Test Items	评判依据 Requirement			测试结果 Result	结论 Conclusion	
Test Method: GB/T 5713-2013 (单位: 级) (Unit: Grade)	优等品 Superior	Color Change:			Pass	
		沾色: Color Staining:	≥ 4			
		变色: Color Change:	≥3-4			
	一等品 Class 1	沾色: Color Staining:	≥ 3-4			
	合格品 Qualified	变色: Color Change:	≥ 3 (婴幼儿用品 Infant≥ 3-4)	7#-帽檐: 4-5 7-Brim: 4-5 7#-大身: 4-5 7#-Body: 4-5 7#-汗带: 4-5 7-Sweatband: 4-5		
		沾色: Color Staining:	≥ 3 (婴幼儿用品 Infant≥ 3-4)	7#-帽檐: 棉 4-5 聚酯纤维 4-5 7#-Brim: Cotton 4-5 Polyester 4-5 7#-大身: 棉 4-5 聚酯纤维 4-5 7#-Body: Cotton 4-5 Polyester 4-5 7#-汗带: 棉 4-5 聚酯纤维 4-5 7#-Sweatband: Cotton 4-5 Polyester 4-5		
耐摩擦色牢度 Colorfastness to Rubbing						
测试方法: Test Method: GB/T 3920-2008 (单位: 级) (Unit: Grade)	优等品 Superior	干摩沾色 Dry staining:	≥ 4		符合 Pass	
		湿摩沾色 Wet staining	浅色 Light ≥ 4			
			深色 Dark≥4			
	一等品 Class 1	干摩沾色 Dry staining:	≥ 3-4 (婴幼儿用品 Infant ≥ 4)			
		湿摩沾色 Wet staining	浅色 Light ≥ 3-4			
			深色 Dark ≥ 3 (婴幼儿用品 Infant ≥ 3-4)			
		合格品 Qualified	干摩沾色 Dry staining:	≥ 3 (婴幼儿用品 Infant ≥ 4)		7#-大身长度方 向: 4-5 7#-Body Length: 4-5 7#-大身宽度方 向: 4-5 7#- Body Width: 4-5 7#-帽檐: 4-5 7-Brim: 4-5 7#-汗带: 4-5 7-Sweatband: 4-5

检验项目 Test Items	评判依据 Requirement			测试结果 Result	结论 Conclusion
		湿摩沾色 Wet staining	浅色 Light ≥ 3	7#-大身长度方 向：4-5 7#-Body Length: 4-5	7#-帽檐：4-5 7-Brim: 4-5 7#-汗带：4-5 7-Sweatband: 4-5
			深色 Dark ≥ 2-3 (婴幼儿用品 Infant ≥ 3)	7#-大身宽度方 向：4-5 7#- Body Width: 4-5	
耐光照色牢度 Colorfastness to Light					
测试方法： Test Method： GB/T 8427-2008 (单位: 级) (Unit: Grade)	优等品 Superior	变色： Color Change:	≥ 4		符合 Pass
	一等品 Class 1	变色： Color Change:	≥ 4		
	合格品 Qualified	变色： Color Change:	≥ 3	7#-大身：>3 7#-body: >3	
纤维含量 Fiber Content					
测试方法： Test Method： FZ/T 01057.1~4-2007 & GB/T 2910.12-2009	优等品 Superior	符合 GB/T 29862-2013 Comply With GB/T 29862-2013 客供的纤维含量： 面布：100%聚酯纤维 衬里：100% 聚酯纤维 Claim fiber content: Shell:100% Polyester Lining:100% Polyester		7#-面布：100%聚酯纤维 7#-衬里：100%聚酯纤维 7#-Shell: 100% Polyester 7#-Lining: 100% Polyester	符合 Pass
	一等品 Class 1				
	合格品 Qualified				
异味 Odour					
测试方法： Test Method： GB 18401-2010 6.7	A 类： Type A:	无异味 No odour			符合 Pass
	B 类： Type B:			7#: 无异味 7#: No odour	

备注：灰卡评级为 1 至 5 级，1 级为最差，5 级为最好
Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



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GB 18401-2010 国家纺织产品基本安全技术规范
GB 18401-2010 National general safety technical code for textile products



Verify Report

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检验项目 Test Items	评判依据 Requirement			测试结果 Result	结论 Conclusion
				Polyester 4-5 Polyester 4-5 7#-汗带: 棉 4-5 聚酯纤维 4-5 7#-Sweatband: Cotton 4-5 Polyester 4-5	
	C 类:	变色: Color Change:	≥3	-	
	Type C:	沾色: Color Staining:	≥3	-	

耐汗渍色牢度(碱性)
Colorfastness to Perspiration (Alkaline)

测试方法: Test Method: GB/T 3922-2013 (单位: 级) (Unit: Grade)	A 类: Type A:	变色: Color Change:	≥3-4	-	符合 Pass
		沾色: Color Staining:	≥3-4	-	
	B 类: Type B:	变色: Color Change:	≥3	7#-帽檐: 4-5 7-Brim: 4-5 7#-大身: 4-5 7#-Body: 4-5 7#-汗带: 4-5 7-Sweatband: 4-5	
		沾色: Color Staining:	≥3	7#-帽檐: 棉 4-5 聚酯纤维 4-5 7#-Brim: Cotton 4-5 Polyester 4-5 7#-大身: 棉 4-5 聚酯纤维 4-5 7#-Body: Cotton 4-5 Polyester 4-5 7#-汗带: 棉 4-5 聚酯纤维 4-5 7#-Sweatband: Cotton 4-5 Polyester 4-5	
		变色: Color Change:	≥3	-	
	Type C:	沾色: Color Staining:	≥3	-	

耐摩擦色牢度
Colorfastness to Rubbing

测试方法: Test Method: GB/T 3920-2008 (单位: 级) (Unit: Grade)	A 类: Type A:	干摩沾色 Dry staining:	≥4	-	符合 Pass
	B 类: Type B:	干摩沾色 Dry staining:	≥3	7#-大身长度方向: 4-5 7#-Body Length: 4-5 7#-大身宽度方向: 4-5 7#- Body Width: 4-5 7#-帽檐: 4-5 7-Brim: 4-5 7#-汗带: 4-5 7-Sweatband: 4-5	

检验项目 Test Items	评判依据 Requirement			测试结果 Result	结论 Conclusion
	C 类: Type C:	干摩沾色 Dry staining:	≥3	-	
纺织品异味测试 Determination of Abnormal Odor in Textiles					
测试方法: Test Method: GB 18401-2010 6.7	A 类: Type A:	无异味 No odour		-	符合 Pass
	B 类: Type B:		7#: 无异味 7#: No odour		
	C 类: Type C:			-	

备注：灰卡评级为 1 至 5 级，1 级为最差，5 级为最好
Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



样本描述
Specimen description

样本编号 Specimen #	样本描述 Specimen description	部位 Location
1	黑色面料 Black textile	大身 Main body
2	黑色面料 Black textile	内里 Lining
3	黑色面料 Black textile	汗带 Sweatband
4	黑色无纺布 Black non-woven textile	汗带夹层 Sweatband filler
5	白色网格面料带白色软塑料 White mesh textile with white soft plastic	前围内里夹层 Front surround lining filler
6	红色面料 Red textile	帽檐底 Brim base
7	黑色帽子 Black cap	成品 Finished product



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图片 Pictures

样品图片:
Sample photo:



报告结束
End of the report

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