

# TEST REPORT

Test Report No.BD/T(G)/25/003895 A2  
Dated 2025-03-02



Bangladesh



Laboratory:  
TÜV SÜD Bangladesh Pvt. Ltd.  
Update Tower, Level 7 & 8,  
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Uttara Model town,,Dhaka1230

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ControlNo:25601240.090225.075

Regd. Office:  
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Avenue, Uttara Model Town, Sector 6,  
Dhaka 1230

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**Applicant** : Nottage International PTY Ltd  
Unit B3, 3-29 Birnie Ave,  
Lidcombe, NSW 2141, AUSTRALIA

**Attention** : Mr. Will Terry

**Test Sample** : Received on 2025-02-07 4:11 pm

**Test Period** : 2025-02-09 to 2025-02-20 Amended Date : 2025-03-02

**Sample Description** : Sample A:Four (04) Pieces Falcon Flex Cap in Color : Black

**Fiber Content** : 87% Recycle Pet 13% Spandex

**Product type/End Use** : Headwear

**Style** : TKC1003

**Order** : 22637

**Country of Origin** : Bangladesh

**Country of Destination** : Australia

**Name of Buyer/ Destination** : Nottage International PTY Ltd

*Note : The submitted Samples were not drawn by laboratory.*

*Unless otherwise agreed upon, PASS or FAIL verdicts are given based on the measured values without any considerations of measurement uncertainties. Every test method has a measurement uncertainty which has been evaluated by the laboratory and are available on request. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL*

1. The testing conditions are followed as per the reported test standard and the test results are reported in accordance with the relevant standard's reporting guideline. Additional test condition beyond those reported can be obtained by contacting the laboratory.
2. The laboratory will retain the sample(s) for 45 days except for the mandatory retention period specified by the Regulatory Bodies and unless otherwise specified by the client.

By accepting this document the customer hereby agrees and accepts the 'Terms & Conditions' and the relevant 'Testing & Certification Regulations' of TÜV SÜD Bangladesh Pvt. Ltd. which are available at Company's website at the link -<https://www.tuvsud.com/en-in/country/bangladesh/terms-and-conditions>

**Note: The test report is electronically generated. Hence original signature is not required.**

Note : (1) The results relate only to the items tested, (2) The test report shall not be reproduced except in full without the written approval of the laboratory, (3) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (4) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

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## Result Summary / Conclusion

<u>Test</u>	<u>A</u>
Colorfastness To Rubbing	Refer Result
Fiber Composition	Refer Result
Labelling Review	Refer Result

<u>Test</u>	<u>Result</u>
Nickel Release	Pass
Phthalates	Refer Result
Formaldehyde Content	Pass
Total Cadmium Content	Refer Result
Total Lead Content	Refer Result
Detection of Banned Amines	Pass

Remark : The report no BD/T(G)/25/003895 Amd1 dated 2025-02-25 has been superseded. The test report is amended in terms of removing agent & supplier name.

Authorised By

Md Badruzzaman  
(Authorised Signatory)

Please contact :

For any technical issues : Abdul Alim at [Abdul.Alim@tuvsud.com](mailto:Abdul.Alim@tuvsud.com)

For any complaint : Md Kamruzzaman . at [kamruz.zaman@tuvsud.com](mailto:kamruz.zaman@tuvsud.com).

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## Test Result

### Material List (As Identified By Laboratory)

Component no	Component Description With Color	Material	Remark
Sample A	-		
A1	Black main fabric	Synthetic	
A2	Black buckram fabric	Synthetic	
A3	Black print with Black tape fabric	Synthetic/Print	All Tests Excluded As Per Client's Advice
A4	Black textile part of elastic	Synthetic	
A5	Black loop part of velcro tape	Synthetic	
A6	Grey/White Y/D brand label	Synthetic	Azo Test Exempted Due To Weight<0.2 gm
A7	Black hook part of velcro tape	Polymer	
A8	Black rubber part of elastic	Rubber	
A9	Silver pin of rivet	Metal	

### Result Conclusion :

S.No.	Test	Composite Sampling (Material no.)	Conclusion	Remarks
1	Nickel Release	A9	Pass	
2	Phthalates	A7 + A8	Refer Result	
3	Formaldehyde Content	A1 + A6	Pass	
4	Formaldehyde Content	A2 + A4 + A5	Pass	
5	Total Cadmium Content	A7 + A8	Refer Result	
6	Total Cadmium Content	A9	Refer Result	
7	Total Lead Content	A7 + A8	Refer Result	
8	Total Lead Content	A9	Refer Result	
9	Detection of Banned Amines	A1 + A4 + A5	Pass	
10	Detection of Banned Amines	A2	Pass	

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## 1.0 Nickel Release

Test Method: EN 12472 :2023 and EN 1811 :2023, Equipment used: ICP-OES

Analytes	CAS No	A9	Customer Spec.
Area of Tested Sample (cm <sup>2</sup> )		2.78	< 0.5 µg/cm <sup>2</sup> /week
Volume of the test solution used (ml)		3.0	
Result (µg/cm <sup>2</sup> /week)		ND	

Remark: ND = Not Detected

Limit of Quantification = 0.1 (µg/cm<sup>2</sup>/week)

## 2.0 Phthalates

Test Method Based on ISO 14389 : 2022, Equipment Used: GC-MS

		A7 + A8	Customer Spec.
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	
Dibutyl Phthalate (DBP)	84-74-2	ND	
Butyl benzyl phthalate (BBP)	85-68-7	ND	
Di-iso-nonyl phthalate (DINP)	28553 12-0, 68515-48-0	ND	
Diisodecyl phthalate (DIDP)	26761 40-0, 68515-49-1	ND	
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	

Remark: ND= Not Detected

Limit of Quantification = 50 mg/kg or 0.005% (Individual)

1% = 10,000 mg/kg (ppm)

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### 3.0 Formaldehyde Content

Based on ISO 14184-1 : 2011, Equipment used: UV-VIS Spectrophotometer

Analytes	CAS No.	A1 + A6	A2 + A4 + A5	Customer Spec.
Formaldehyde	50-00-0	11.4 mg/kg	ND	≤ 30 mg/kg

Remark: ND = Not Detected

Limit of Quantification = 5 ppm(mg/kg)

ppm = parts per million = mg/kg

### 4.0 Total Cadmium Content

Based on DIN EN 16711-1:2016, Equipment Used: ICP-OES/ICP-MS

Result	A7 + A8	A9	Customer Spec.
	ND	ND	

Remark: ND = Not Detected

Limit of Quantification = 5 ppm(mg/kg)

ppm = parts per million = mg/kg

### 5.0 Total Lead Content

Based on EN 16711-1:2016, Equipment Used: ICP-OES/ICP-MS

Result	A7 + A8	A9	Customer Spec.
Lead	ND	ND	

Remark: ND = Not Detected

Limit of Quantification = 10 ppm(mg/kg)

ppm = parts per million = mg/kg

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## 6.0 Detection of Banned Amines

Based On DIN EN ISO 14362-1: 2017 & DIN EN ISO 14362-3: 2017, Equipment Used: GC-MS/UPLC-DAD

Analytes	CAS No.	A1 + A4 + A5	A2	Customer Spec.
4-aminobiphenyl	92-67-1	ND	ND	≤ 30 mg/kg
Benzidine	92-87-5	ND	ND	
4-chloro-o-toluidine	95-69-2	ND	ND	
2-naphthylamine	91-59-8	ND	ND	
o-aminoazotoluene	97-56-3	ND	ND	
2-amino-4-nitrotoluene	99-55-8	ND	ND	
p-chloroaniline	106-47-8	ND	ND	
2,4-diaminoanisole	615-05-4	ND	ND	
4,4'-diaminodiphenylmethane	101-77-9	ND	ND	
3,3'-dichlorobenzidine	91-94-1	ND	ND	
3,3'-dimethoxybenzidine	119-90-4	ND	ND	
3,3'-dimethylbenzidine	119-93-7	ND	ND	
3,3'-dimethyl-4,4'-diaminodiphenylmeth	838-88-0	ND	ND	
p-cresidine	120-71-8	ND	ND	
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	ND	ND	
4,4'-oxydianiline	101-80-4	ND	ND	
4,4'-thiodianiline	139-65-1	ND	ND	
o-toluidine 2-aminotoluène	95-53-4	ND	ND	
2,4-Toluenediamine	95-80-7	ND	ND	
2,4,5-Trimethylaniline	137-17-7	ND	ND	
2-methoxyaniline	90-04-0	ND	ND	
p-aminoazobenzene	60-09-3	ND	ND	
2,4-xylidine	95-68-1	ND	ND	
2,6-xylidine	87-62-7	ND	ND	

Remark: ND = Not Detected

Limit of Quantification = 5 ppm (mg/kg)

ppm = parts per million = mg/kg

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**7.0 Colorfastness To Rubbing**  
 ISO 105-X12 :2016,

		Results	Customer Spec.
Sample A	Color Staining	Dry	4 - 5
	Color Staining	Wet	4 - 5

**8.0 Fiber Composition**  
 ISO 1833 : 2020,

		Results	Customer Spec.
Sample A	Upper	.	.
	Fiber Composition	Polyester	86.5%
	Fiber Composition	Elastane	13.5%
Lower	.	.	.
	Fiber Composition	Polyester	95.5%
	Fiber Composition	Elastane	4.5%

Remark: Based On Moisture Regain Weight  
 Moisture Regain Of Polyester 1.5% Elastane 1.5%

**9.0 Labelling Review**  
 Visual Assessment,

		Observation	Customer Spec.
Sample A	Fiber Content Label	Present	
	Care Labeling	Present	
	Country of Origin	Present	

- END OF TEST REPORT -