



# **TEST REPORT**

Report No. ..... : WTF24F11263550C

Job No. ..... FSW2411120418CJ

Kowloon, Hong Kong

Manufacturer..... 114914

Sample Name ...... 6 panel baseball cap in brushed heavy cotton

Sample Model ..... : MO9643

Test Requested ..... : Refer to next page (s)

Test Method .....: Refer to next page (s)

Test Conclusion ...... Pass (Please refer to next pages for details)

Date of Receipt sample...... 2024-11-12

**Testing period**...... 2024-11-12 to 2024-11-21

Date of Issue ..... : 2024-11-21

Test Result .....: Refer to next page (s)

Note : As specified by client, only test the designated sample.

#### Prepared By:

#### Waltek Testing Group (Foshan) Co., Ltd.

Address: No.13-19, 2/F., 2nd Building, Sunlink Machinery City, Xingye 4 Road, Guanglong Industrial Park, Chihua Neighborhood Committee, Chencun Town, Shunde District, Foshan, Guangdong, China Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Signed for and on behalf of Waltek Testing Group (Foshan) Co., Ltd.

Gwing Liang

Swing.Liang



WTF24F11263550C



Summary

Item No.	Test Requested	Test Conclusion
unijek w	Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628	THE Pass MITTER
2 41 <sup>2</sup>	Determination of Cadmium content in the submitted sample in accordance with REACH regulation Annex XVII Entries 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011, No. 835/2012 and (EU) 2016/217	Pass
3	Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005	Pass
4	Determine the specified AZO Colorants contents in the submitted sample in according to the Entries 43 in Annex XVII of the REACH Regulation (EC) No.1907/2006 and the Amendment Regulation (EC) No.552/ 2009 & No.126/ 2013 (previously restricted under Directive 2002/61/EC).	Pass
5 WALTER	Determination of specified Polycyclic Aromatic Hydrocarbons (PAHs) content in submitted sample in accordance with Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013.	Pass
6	Nickel content requirement in Annex XVII Item 27 of the REACH Regulation (EC) No. 1907/2006 & amendment No.552/2009 (formerly known as Directive 94/27/EC and 2004/96/EC)	Pass
7	As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.	Pass

# Sample photo:











#### **Test Results:**

# 1) Lead (Pb)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

TEN STEEL	LOQ	Results (m	Limit		
Test Item	(mg/kg)	No.1+No.5+No.10	No.3	3 (mg/kg)	
Lead(Pb)	wer 2 mer	ND*	110	500	
Conclusion	t 1st - 1st	Pass	Pass	20	

L STEE MITER	LOQ		Results (mg/kg	D+ 76+ 56	Limit
Test Item	(mg/kg)	No.4	No.6	No.7	(mg/kg)
Lead(Pb)	2 2	43	ND O	ND.	500
Conclusion	EK JEK-JIEK	Pass	Pass	Pass	- Jt

JER WALTER WALTER	LOQ	. 14 2	Results (mg/k	g) - (1)	Limit
Test Item	(mg/kg)	No.8	No.9	No.11+No.12	(mg/kg)
Lead(Pb)	2	18	کی 18 کی	ND*	500
Conclusion	ri kur - kur	Pass	Pass	Pass	TEX -TEX

#### Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.
- (5) "\*" = Results are calculated by the minimum weight of mixed components.



## 2) Cadmium (Cd)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Took Hom	LOQ	Results (mg/kg)
Test Item	(mg/kg)	No.2+No.6+No.13
Cadmium(Cd) 2		THE NO.
Conclusion	71/15 - 71/2 V	Pass et life Mile W

#### Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (4) Limit of Cadmium according to REACH regulation Annex XVII Item 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011 and No. 835/2012 and (EU) 2016/217.

	11, 11, 11, 11,
Category	Limit (mg/kg)
Wet paint	100
Surface coating	1000
Plastic	100
Metal parts of jewellery and hair accessories	100

(5) "\*" = Results are calculated by the minimum weight of mixed components.



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## 3) Phthalates

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Items	st Items LOQ (%)		Limit (%)
Benzyl butyl phthalate (BBP)	0.005	ND*	TEX OLIER WHITE WE
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	MUX MUX	sum of four
Dibutyl phthalate (DBP)	0.005	0.016*	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND* H	NITE WITER WHITER
Diisodecyl phthalate (DIDP)	0.01	ND*	at at at
Diisononyl phthalate (DINP)	0.01	ND**	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND*	primalates < 0.1
Conclusion	d 75 5	Pass	4, 4, 4,

#### Note:

DBP= Dibutyl phthalate
DINP= Di-isononyl phthalate
DIBP= Diisobutyl phthalate
DIBP= Diisobutyl phthalate

BBP= Benzyl butyl phthalate
DIDP= Di-isodecyl phthalate
DIDP= Di-isodecyl phthalate

- (1) % = percentage by weight
- (2) ND = Not Detected or lower than limit of quantitation
- (3) LOQ = Limit of quantitation
- (4) "<" = less than
- (5) The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005 (formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.
- (6) "\*" = Results are calculated by the minimum weight of mixed components.



4) AZO

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

No	Aminos Substances	CAS No	Limit	Result (mg/kg)	
No.	Amines Substances	CAS No.	(mg/kg)	No.1+No.5+No.10	
1	4-Aminobiphenyl	92-67-1	30	ND*	
2	Benzidine	92-87-5	30	ND*	
3	4-chloro-o-Toluidine	95-69-2	30	ND*	
4	2-Naphthylamine	91-59-8	30	ND* ND*	
5	o-Aminoazotoluene	97-56-3	30	ND*	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*	
7	p-Chloroaniline	106-47-8	30	ND*	
8	2,4-diaminoanisol	615-05-4	30	ND*	
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND*	
10	3,3'-Dichlorobenzidine	91-94-1	30	ND*	
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND*	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND*	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*	
14	p-cresinin	120-71-8	30	ND*	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*	
16	4,4'-Oxydianiline	101-80-4	30	ND*	
17	4,4'-Thiodianiline	139-65-1	30	ND*	
18	o-Toluidine	95-53-4	30	MD* MD*	
19	2,4-Toluylendiamine	95-80-7	30	ND*	
20	2,4,5 – Trimethylaniline	137-17-7	30	ND*	
21	o-anisidine	90-04-0	30	ND*	
22	4-aminoazobenzene	60-09-3	30	ND*	
23	2,4-Xylidin	95-68-1	30	ND*	
24	2,6-Xylidin	87-62-7	30	MD*	
(E)	Conclusion		A 15	Pass	

#### Note:

- ND = Not Detected or lower than limit of quantitation
- mg/kg=Milligram per kilogram
- Limit of quantitation (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorant used.
- "\*" = Results are calculated by the minimum weight of mixed components.

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#### 5) Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AFPS GS 2019:01 PAK method, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS).

transitus tet ster site of	I India	Results	1.00	C. Limit	
Test Items	Unit	No.6	LOQ	Limit	
Benzo(a)anthracene (BaA)	mg/kg	ND	0.2	1.0	
Chrysene (CHR)	mg/kg	ND The	0.2	1.0	
Benzo[b]fluoranthene (BbFA)	mg/kg	ND	0.2	1.0	
Benzo[k]fluoranthene (BkFA)	mg/kg	ND ND	0.2	1.0	
Benzo(a)pyrene (BaP)	mg/kg	ND	0.2	1.0	
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	M ND W	0.2	1.0	
Benzo[j]fluoranthene (BjFA)	mg/kg	ND C	0.2	1.0	
Benzo[e]Pyrene (BeP)	mg/kg	ND	0.2	1.0	
Conclusion	AN JE	Pass	is mer - mer	24 24	

#### Note:

- (1) ND = Not Detected or lower than limit of quantitation
- (2) mg/kg=milligram per kilogram=ppm
- (3) LOQ = Limit of quantitation
- (4) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0,0001 % by weight of this component) of any of the listed PAHs.
- (5) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Toys, including activity toys, and childcare articles, shall not be placed on the market, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 0,5 mg/kg (0,00005 % by weight of this component) of any of the listed PAHs.



#### 6) Nickel release

Test method: With reference BS EN1811: 2011+A1:2015, Nickel content was determined by Inductively Coupled Argon Plasma Spectrometry

Item No.	Sample Area (cm²)	Volume of Test	Nickel release (μg/cm²/week)			'NLTEX SIN'	Conclusion
	Area (cm )	Solution(ml)	Trial 1	Trial 2	Trial 3	Average	
No.8	9.68	10	ND	ND	ND	ND S	Pass
No.9	5.92	6	ND	ND	ND	ND	Pass

#### Note:

- (1)  $\mu g/cm^2/week = microgram per square centimetre per week$
- (2) Limit of quantitation =  $0.05 \mu g/cm^2/week$
- (3) ND = Not Detected or lower than limit of quantitation
- (4) Interpretation of test results:

ALL MILL MAN IN THE TEXT THE	Nickel Release(μg/cm²/week)		
Type of sample	Pass	Fail	
Other components in direct and prolonged contact with the skin	<0.88	≥0.88 unifer	
Post assemblies and body piercings (Post assemblies which are inserted into pierced parts of the human body)	<0.35	≥0.35	

# 7) Colour Fastness to Rubbing

Colour Fast	ness to Rubbing		of the life	WITE WILL	The The 1
(ISO 105-X1	2: 2016; Size of rubbing	finger: 16mm dia	ameter.)		+ 2+
NETT NOTE IN	The The The	No.1	No.5	No.10	Client's Limit
1 (1	Dry staining	4-5	4-5	4-5	2-3
Length	Wet staining	4	3-4	4.	2-3
المار: مالمام	Dry staining	4-5	TEN STEEL OF	in the the	2-3
Width	Wet staining	4	20 20	-	2-3
Conclusion	5 24 24 A	Pass	- Pass	Pass	inti tint .

# Note:

(1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



# **Description for Specimen:**

Specimen No.	Specimen Description
x 181 18t 18t .	Red main fabric
W 2 W W	Orange plastic sheet
STIFF 3 MITTER MITTER AND	Silvery metal buckle with golden plating
4 4 4	Silvery metal buckle with golden plating
115 m m	Red fabric rim
6	White plastic sheet
7	White fabric rim
metr 8 metr metr me	Silvery metal buckle with golden plating
1 9 pt 10t 10t	Silvery metal buckle
10	Red fabric rim
THE MITTER WAY	White paper
12	White paper
J13 4/1 4/1 4/1	White sponge sheet



Photograph of parts tested:





#### Remarks:

- 1. The results shown in this test report refer only to the sample(s) tested;
- 2. This test report cannot be reproduced, except in full, without prior written permission of the company;
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- 4. The Applicant name and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which Waltek hasn't verified;
- 5. If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.
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===== End of Report ======

