



TEST REPORT

Reference No	:	WTF19F03010756X1C
Applicant	الهزير	Mid Ocean Brands B.V.

Address 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,

Hong Kong

Manufacturer..... 114103

Sample Name..... Lanyard with metal hook

Model No. MO9661, MO8595, MO9058, MO9354

Test Requested.....:: 1) 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

> 2) 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

3) 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).

4) As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.

5) 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)

Test Method Please refer to next page (s) Test Conclusion Please refer to next page (s)

Date of Receipt sample..... 2019-03-01

Date of Test..... 2019-03-01 to 2019-03-13

Date of Issue 2019-03-14

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

Note: This report is based on Waltek test report WTF19F03010756C for

revising, and replaced report WTF19F03010756C.

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of reporter and reviewer.

Prepared By:

Waltek Services (Foshan) Co., Ltd.

Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City, Chencun, Shunde District, Foshan, Guangdong, China Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Tel:+86-757-23811398

Compiled by:

red by:

Swing.Liang /Project Engineer

Waltek Services (Foshan) Co.,Ltd.

http://www.waltek.com.cn

Page 1 of 8

hang /Lab Manager

Reference No.: WTF19F03010756X1C Page 2 of 8

Test Result:



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

Took House	MDL*	JEX JE	Limit			
Test Item (mg/kg)	(mg/kg)	No.1	No.2	No.3	No.4	(mg/kg)
Lead(Pb)	± 2 ±	ND	ND ND	ND	57	500
Conclusion	m. m	Pass	Pass	Pass	Pass	White-Mili

Tarkelli WAL	MDL	14, 12	Limit			
Test Item	(mg/kg)	No.5	No.6	No.7	No.8	(mg/kg)
Lead(Pb)	2	92	38	ND O	ND	500
Conclusion	JEK STEEL IN	Pass	Pass	Pass	Pass	* * *

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (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.

2) Cadmium (Cd)

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

Test Item MDL (mg/kg)	MDL	Results (mg/kg)			
	No.1	No.2			
Cadmium(Cd)	2	ND	ND with with		
Conclusion	CLIE WILL	Pass	Pass		

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (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.

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

Reference No.: WTF19F03010756X1C Page 3 of 8



3) 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.	o. Amines Substances	CAS No.	Limit	Result (mg/kg)	
NO.			(mg/kg)	No.3	
1	4-Aminobiphenyl	92-67-1	30	ND	
2	Benzidine	92-87-5	30	ND NITT	
3	4-chloro-o-Toluidine	95-69-2	30	ND	
4	2-Naphthylamine	91-59-8	30	ND T	
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	THE ND NO	
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND I	
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 NO	
17	4,4'-Thiodianiline	139-65-1	30	ND	
18	o-Toluidine	95-53-4	30	THE NUT NO NET	
19	2,4-Toluylendiamine	95-80-7	30	ND	
20	2,4,5 – Trimethylaniline	137-17-7	30	ND 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	ND	
	Conclusion	Wr Mr.	4	Pass	

Note:

- ND = Not detected or less than the method detection limit
- mg/kg=Milligram per kilogram
- Method Detection Limit (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.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006

Reference No.: WTF19F03010756X1C



4) Colour Fastness to Rubbing

Colour Fastness to Rubbing*	me me x	EX TEX TEX LIE		
(ISO 105 X12: 2001/Cor 2002; \$	Size of rubbing finger: 16mm diameter.)	Write Mur. Mur. Mr. A		
No.3 Client's Limit				
Dry staining	4-5	2-3		
Wet staining	THE TEL TE 4-5 IN WAR	2-3		
Conclusion	Pass	et let let - liet with		

Note:

- (1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.
- (2) The testing item marked with '*' does not been accredited by CNAS

5) 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	Volume of Test	Nickel release (μg/cm²/week)			Conclusion	
	(cm²)	Solution(ml)	Trial 1	Trial 2	Trial 3	Average	It TEX
No.4+ No.5+No.6+ No.7+No.8	11.20	unit 15 cre	ND*	ND*	ND*	ND*	Pass

Note:

- (1) $\mu g/cm^2/week = microgram per square centimetre per week$
- (2) Method Detection limit = $0.05 \mu g/cm^2/week$
- (3) ND = Not detected or less than the value of Method Detection Limit
- (4) Interpretation of test results:

Lifet while we the wait will will	Nickel Release(μg/cm²/week)			
Type of sample	Pass	Fail		
Other components in direct and prolonged contact with the skin	<0.88	≥0.88		
Post assemblies and body piercings (Post assemblies which are inserted into pierced parts of the human body)	<0.35	unitet ≥0.35		

^{(5) &}quot;*" = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only



Test Specimen Description:

No.1: Black plastic buckle

No.2: Black plastic buckle

No.3: Orange fibrous lanyard

No.4: Silvery metal sheet of hook

No.5: Silvery metal sheet of hook

No.6: Silvery metal frame of hook

No.7: Silvery metal rivet

No.8: Silvery metal spring

Sample photo:









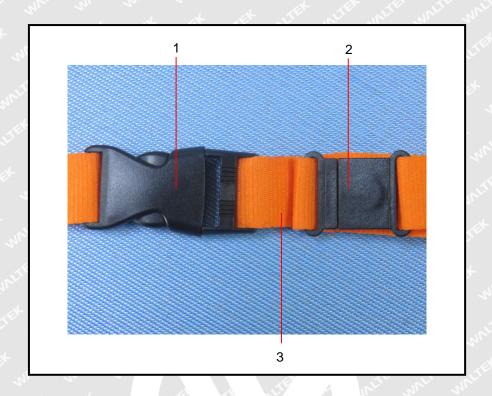






A TOTAL OF THE FEE STATE

Photographs of parts tested:





===== End of Report =====