



# TEST REPORT

**Report No.** ..... : WTF24F10238420C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong  
**Manufacturer** ..... : 114276  
**Sample Name** ..... : Cotton golf towel with metal hook hanger  
**Sample Model** ..... : MO6525  
**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** ..... : 2024-10-16  
**Testing period** ..... : 2024-10-16 to 2024-10-25  
**Date of Issue** ..... : 2024-10-28  
**Test Result** ..... : Refer to next page (s)

**Prepared By:**

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

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

*Swing Liang*

Swing.Liang



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### Summary

Item No.	Test Requested	Test Conclusion
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	<b>Pass</b>
2	Determine the specified AZO Colorants contents in the submitted sample in accordance 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).	<b>Pass</b>
3	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)	<b>Pass</b>
4	As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.	<b>Pass</b>

### Sample photo:





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**Test Results:**

**1) Lead (Pb)**

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

<b>Test Item</b>	<b>LOQ (mg/kg)</b>	<b>Results (mg/kg)</b>			<b>Limit (mg/kg)</b>
		<b>No.1</b>	<b>No.2</b>	<b>No.3</b>	
Lead(Pb)	2	ND	138	ND	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

**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.

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**2) 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.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg)	
				No.3	
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
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		ND
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		ND
--	<b>Conclusion</b>	--	--		<b>Pass</b>

**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.



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**3) 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 (cm <sup>2</sup> )	Volume of Test Solution(ml)	Nickel release (µg/cm <sup>2</sup> /week)				Conclusion
			Trial 1	Trial 2	Trial 3	Average	
No.1	12.17	40	ND	ND	ND	ND	Pass
No.2	27.12	20	0.70	0.84	0.57	0.70	Pass

**Note:**

- (1) µg/cm<sup>2</sup>/week = microgram per square centimetre per week
- (2) Limit of quantitation = 0.05 µg/cm<sup>2</sup>/week
- (3) ND = Not Detected or lower than limit of quantitation
- (4) Interpretation of test results:

Type of sample	Nickel Release(µg/cm <sup>2</sup> /week)	
	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	≥0.35

**4) Colour Fastness to Rubbing**

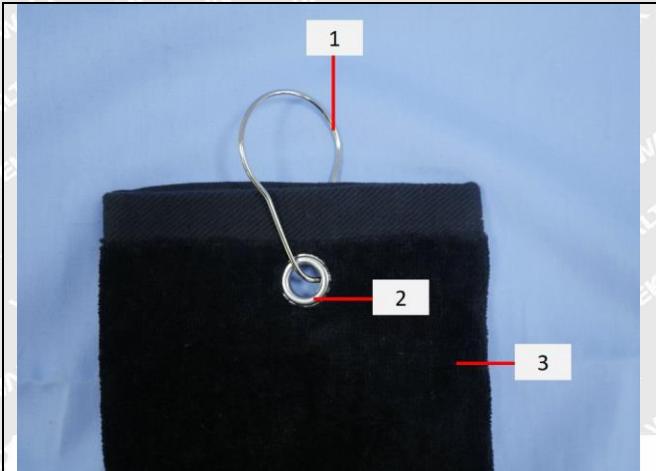
Colour Fastness to Rubbing			
(ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.)			
		No.3	Client's Limit
Length	Dry staining	4-5	2-3
	Wet staining	2-3	2-3
Width	Dry staining	4-5	2-3
	Wet staining	2-3	2-3
Conclusion		Pass	--

**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
1	Silvery metal buckle
2	Silvery metal eyelet
3	Black main fabric

**Photograph of parts tested:**



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Remarks:

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

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