

# **TEST REPORT**

Reference No.	:	WTF19F09063787C
Applicant	Nº12	Mid Ocean Brands B.V.
Address	:	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,
		Hong Kong
Manufacturer	:	111587
Sample Name	¢:	Drawstring bag in 1200D poly
Model No.	: 1	MO9776
Test Requested	NNET	<ol> <li>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 &amp; No.126/ 2013 (previously restricted under Directive 2002/61/EC).</li> </ol>
		<ul> <li>2) 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</li> <li>3) As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.</li> </ul>
Test Method	:	Please refer to next page (s)
Test Conclusion	:	Please refer to next page (s)
Date of Receipt sample	NUL	2019-09-12
Date of Test	J.E.K.	2019-09-12 to 2019-09-18
Date of Issue	×	2019-09-18
Test Result Remarks:	: -14	Please refer to next page (s)

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 compiler and approver.

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.

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 Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Compiled by:

Rena.Chen / Project Engineer

ERVICAPProved by: Liang / Lab Manager



#### **Test Result:**

## 1) 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.	Aminoo Substansaa	CAS No. 92-67-1	Limit	Result (mg/kg) No.1+No.2+No.3 ND*	
NO.	Amines Substances		(mg/kg)		
1	4-Aminobiphenyl		30		
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* W	
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*	
8,0	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* N	
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* ND*	
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*	
16	4,4'-Oxydianiline	101-80-4	30	ND*/ ND*/	
17	4,4'-Thiodianiline	139-65-1	30	ND*	
18	o-Toluidine	95-53-4	30	ND* ND	
19	2,4-Toluylendiamine	95-80-7	30	ND*	
20	2,4,5 – Trimethylaniline	137-17-7	30	ND* M	
21	o-anisidine	90-04-0	30	ND*	
22 <sup>()</sup>	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*	
A	Conclusion		-	Pass	



No.	all all in an Sub at the set of	CAS No.	Limit	Result (mg/kg)	
NO.	Amines Substances		(mg/kg)	No.4+No.5	
1+	4-Aminobiphenyl	92-67-1	30	ND*	
2	Benzidine	92-87-5	30	ND*	
<i>ु</i> 3	4-chloro-o-Toluidine	95-69-2	30	ND*	
4 🗸	2-Naphthylamine	91-59-8	30	nt nND* m m	
5	o-Aminoazotoluene	97-56-3	30	ND*	
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*N	
7,0	p-Chloroaniline	106-47-8	30	ND*	
<u> 8</u>	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	10 1ND* 11 1	
/11	3,3'-Dimethoxybenzidine	119-90-4	30	ND*	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND*M	
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	1 1 ND* 1 1	
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* A	
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* N	
it.	Conclusion	29 - B		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
- "\*" = Results are calculated by the minimum weight of mixed components.



## 2) Lead (Pb)

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

Test Item	MDL	INTE NATE WAL	Limit		
	(mg/kg)	No.1+No.2+No.3	No.4+No.5	No.6	(mg/kg)
Lead(Pb)	2	ND* ND*	ND*	ND	500
Conclusion		Pass	Pass	Pass N	me - m

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

## 3) Colour Fastness to Rubbing

Colour Fastness to F	Rubbing	NHI I			s at at	
(ISO 105 X12: 2001/Cor 2002; Size of rubbing finger: 16mm diameter.)						
	No.1	No.3	No.4	No.5	Client's Limit	
Dry staining	4-5	4-5	4-5	4-5	d 2-3 S	
Wet staining	4-5	4-5	4	4-5	2-3	
Conclusion	Pass	Pass	Pass	Pass	1 - 1 A	

#### Note:

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

#### **Test Specimen Description:**

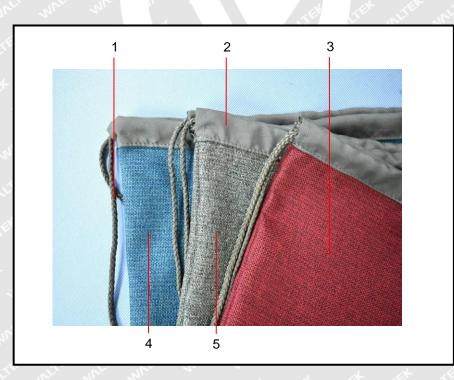
- No.1: Dark grey fabric belt
- No.2: Grey fabric
- No.3: Red main fabric
- No.4: Blue main fabric
- No.5: Dark grey main fabric
- No.6: Black metal eyelet



# Sample photo:

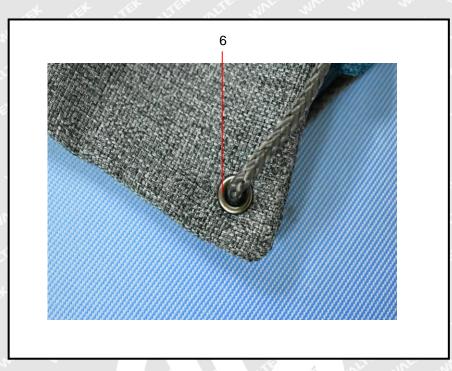


# Photographs of parts tested:



Waltek Services (Foshan) Co.,Ltd. http://www.waltek.com.cn





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

Waltek Services (Foshan) Co.,Ltd. http://www.waltek.com.cn