

TEST REPORT

Reference No...... : WTF20F12100598C

Applicant.....: Mid Ocean Brands B.V.

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

Hona Kona

Manufacturer : 111903

Sample Name...... : Apron canvas with leather details

Model No.: MO9237

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) 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).

3) Determination of Hexavalent Chromium(Cr(VI)) content according to Annex XVII Items 47 of the REACH Regulation (EC) No.

1907/2006 & Amendment No. 301/2014

4) Determination of Chlorinated Paraffins (C₁₀-C₁₃)(SCCP) content in the submitted sample in accordance with REACH regulation Annex XVII Entries 42 (EC) No. 1907/2006

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

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

Test Conclusion Please refer to next page (s)

Date of Receipt sample 2020-12-22

Date of Test..... 2020-12-22 to 2020-12-29

Date of Issue.....: 2020-12-29

Test Result: Please refer to next page (s)

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 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 Testing Group (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

Rena.Chen / Project Engineer

Compiled by:

Approved by:

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

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Test Result:



1) Lead (Pb)

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

Test Item	LOQ	Results (mg/kg)			Limit	
	(mg/kg)	(mg/kg) No.1	No.2	No.3+No.4	No.5	(mg/kg)
Lead(Pb)	2	ND	ND	ND*	ND	500
Conclusion	* - *	Pass	Pass	Pass	Pass	74, -72,

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) AZO

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was

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



No.	Amines Substance	CACNE	Limit	Result (mg/kg)	
NO.	Amines Substances	CAS No.	(mg/kg)	No.5	
1	4-Aminobiphenyl	92-67-1	30	ND 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 ND	
12	3,3'-Dimethylbenzidine	119-93-7	30	ND	
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND 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 ND	
18	o-Toluidine	95-53-4	30	ND	
19	2,4-Toluylendiamine	95-80-7	30	ND W	
20	2,4,5 – Trimethylaniline	137-17-7	30	ND	
21	o-anisidine	90-04-0	30	ND W	
22	4-aminoazobenzene	60-09-3	30	L ND ND	
23	2,4-Xylidin	95-68-1	30	ND W	
24	2,6-Xylidin	87-62-7	30	ND ND	
× .	Conclusion	- JE	17 - 10 LT.	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.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006



3) Chromium (Cr(VI))

Test Method: As requested by client and with reference to ISO 17075-1:2017, analysis was performed by UV-Visible Spectrophotometry.

Test Item	LOQ (mg/kg)	Results (mg/kg) No.2	Limit (mg/kg)
Hexavalent Chromium Cr(VI) content	2	A THE NO. OF STREET	3
Conclusion	TER WILL WIL	Pass	, , , , , , , , , , , , , , , , , , ,

Note:

- (1) ND = Not Detected or less than limit of quantitation
- (2) mg/kg = milligram per kilogram= ppm
- (3) LOQ = Limit of quantitation
- (4) The above limit was quoted according to Annex XVII Items 47 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 301/2014 for Hexavalent Chromium Cr(VI) content in articles containing leather parts.

4) Chlorinated Paraffins (C10-C13) (SCCP)

Test Method: With reference to US EPA 3550C-2007, qualitative and semi-quantitative analysis was performed by GC-MS

Total Main	LOQ	Results (mg/kg)	Limit	
Test Item	(mg/kg)	No.2	(mg/kg)	
Chlorinated Paraffins C ₁₀ -C ₁₃ (SCCP)	100	ND	10000	
Conclusion	LIFEK - NINLINE	Pass	20,	

Note:

- mg/kg = ppm
- ND = Not detected or less than limit of quantitation
- LOQ = Limit of quantitation
- Limit of Chlorinated Paraffins C_{10} - $C_{13}(SCCP)$ was quoted from REACH regulation Annex XVII Item 42 (EC) No.1907/2006.



5) Colour Fastness to Rubbing

Colour Fastness to Rubbing			
(ISO 105 X12: 2001/Cor 20	02; Size of rubbing finger: 1	6mm diameter.)	THE THE STEE
Length	No.1	No.5	Client's Limit
Dry staining	4-5	4-5	2-3
Wet staining	2-3	4,5	2-3
Width	THE LITTER STATE OF	4 24 21 - 24 - 24 - 24 - 24 - 24 - 24 -	7
Dry staining	4-5	4-5	2-3
Wet staining	2-3	4	2-3
Conclusion	Pass	Pass	1 1th 1th

Colour Fastness to Rubbing				
(ISO 11640: 2018)	TEX ITEX INT. WILL WILL	24. 24.		
Dry, after 100 cycles	No.2	Client's Limit		
Colour staining	4-5	2-3		
Colour change	4-5	2-3		
Wet, after 50 cycles	1 15 16 16 16 16 16 16 16 16 16 16 16 16 16	SITE OUT WITH THE		
Colour staining	2-3	2-3		
Colour change	4-5	2-3		
Conclusion	Pass	1. M. M. M.		

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: Black main fabric

No.2: Brown leather

No.3: Silvery metal ring

No.4: Silvery metal rivet

No.5: Brown main fabric

Sample photo:

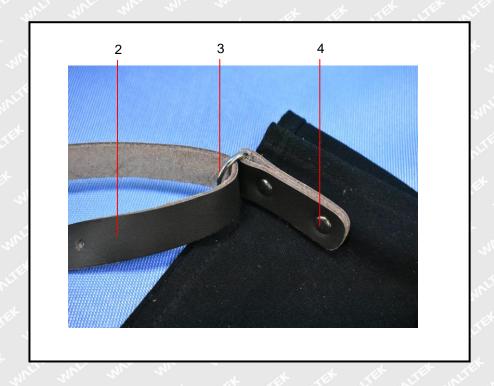




Photographs of parts tested:











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