



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF19F11076598A2C
Applicant : Mid Ocean Brands B.V.
Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer : 111901
Sample Name : 6 piece stationary set
Model No. : MO9010
Test Requested : 1) 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
 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
 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 specified by client, determination of the free and hydrolysed formaldehyde content in submitted sample
Test Method : Please refer to next page (s)
Test Conclusion : Please refer to next page (s)
Date of Receipt sample : 2019-11-05
Date of Test : 2019-11-05 to 2019-11-11
Date of Issue : 2019-11-27
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.

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**Test Result:****1) Cadmium (Cd)**

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

Test Item	MDL (mg/kg)	Results (mg/kg)				
		No.1	No.4	No.5	No.8	No.9
Cadmium(Cd)	2	ND	ND	ND	ND	ND
Conclusion	--	Pass	Pass	Pass	Pass	Pass

Test Item	MDL (mg/kg)	Results (mg/kg)				
		No.10	No.11	No.12	No.13	No.14
Cadmium(Cd)	2	ND	ND	ND	ND	ND
Conclusion	--	Pass	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 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

WALTEK



2) Lead (Pb)

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

Test Item	MDL (mg/kg)	Results (mg/kg)				Limit (mg/kg)
		No.1	No.2	No.3	No.4	
Lead(Pb)	2	90	ND	ND	ND	500
Conclusion	--	Pass	Pass	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)				Limit (mg/kg)
		No.5	No.6	No.7	No.8	
Lead(Pb)	2	ND	ND	ND	ND	500
Conclusion	--	Pass	Pass	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)				Limit (mg/kg)
		No.9	No.10	No.11	No.12	
Lead(Pb)	2	ND	ND	ND	ND	500
Conclusion	--	Pass	Pass	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)				Limit (mg/kg)
		No.13	No.14	No.15	No.16	
Lead(Pb)	2	ND	ND	ND	ND	500
Conclusion	--	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.



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.	Amines Substances	CAS No.	Limit (mg/kg)	Result (mg/kg)
				No.2
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
Conclusion		--	--	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



4) Formaldehyde

Test Method: With reference to EN717-3:1996, analysis was performed by UV-VIS

Test Item	Unit	Result	MDL	Client's Limit
		No.8		
Formaldehyde (CH ₂ O)	mg/kg	ND	10	80
Conclusion	--	Pass	--	--

Note:

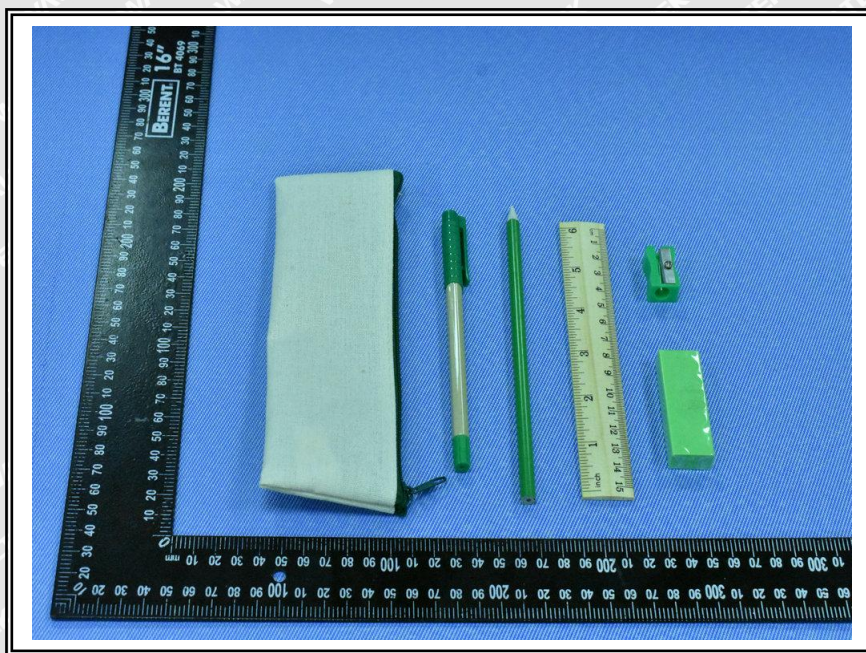
- ND = Not detected or less than the method detection limit
- mg/kg =milligram per kilogram=ppm
- MDL= Method Detection Limit

Test Specimen Description:

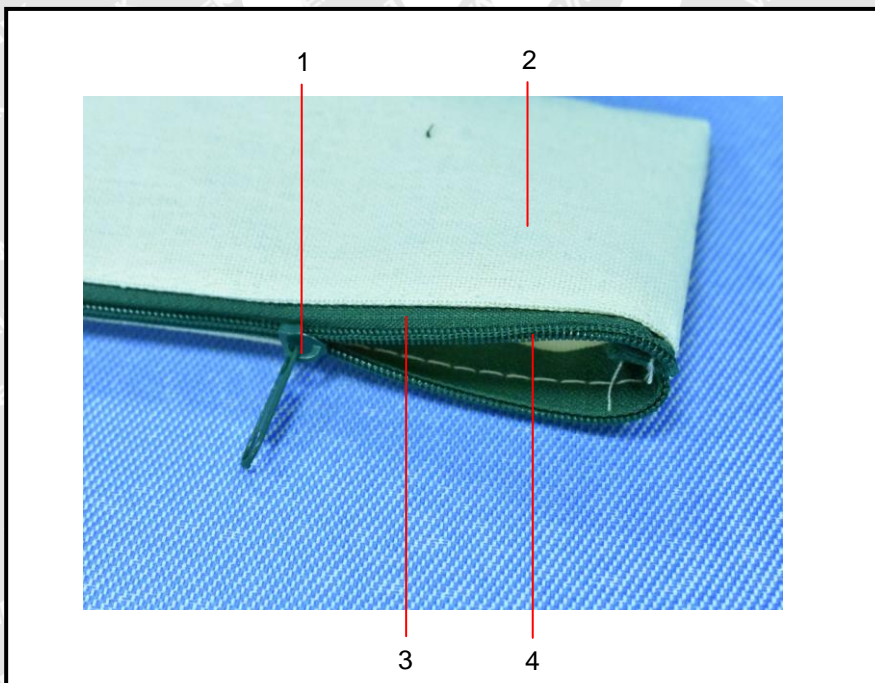
- No.1: Silvery metal zipper head with green coating
- No.2: Off-white main fabric
- No.3: Green zipper fabric
- No.4: Green plastic zipper tooth
- No.5: Green coating
- No.6: Black graphite
- No.7: Off-white paper
- No.8: Off-white wooden ruler with black printing
- No.9: Green eraser
- No.10: Blue ink
- No.11: Transparent plastic refill
- No.12: Green plastic cap
- No.13: Off-white plastic barrel
- No.14: Green plastic shell of pencil sharpener
- No.15: Silvery metal blade of pencil sharpener
- No.16: Silvery metal screw of pencil sharpener

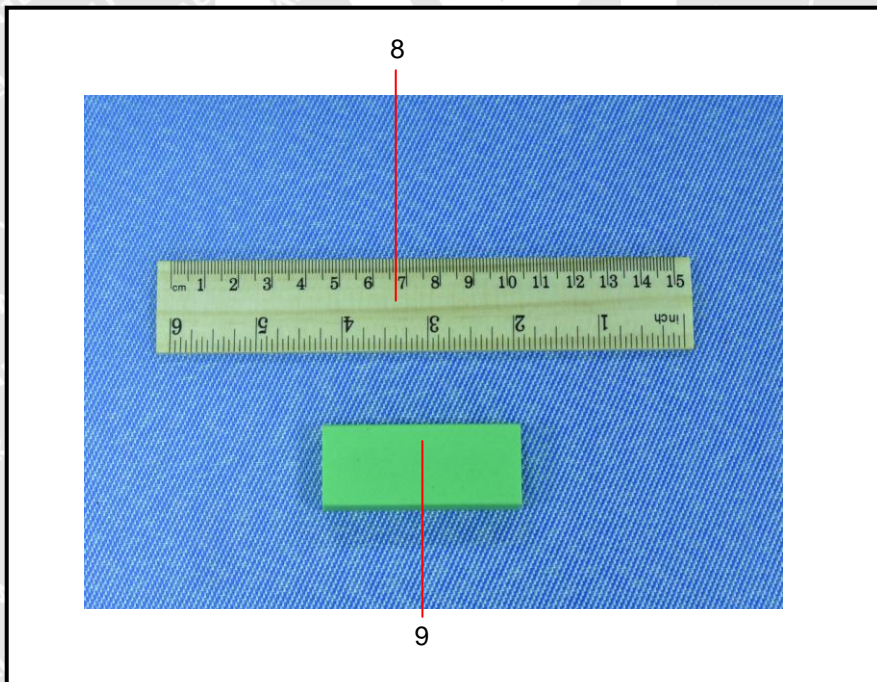
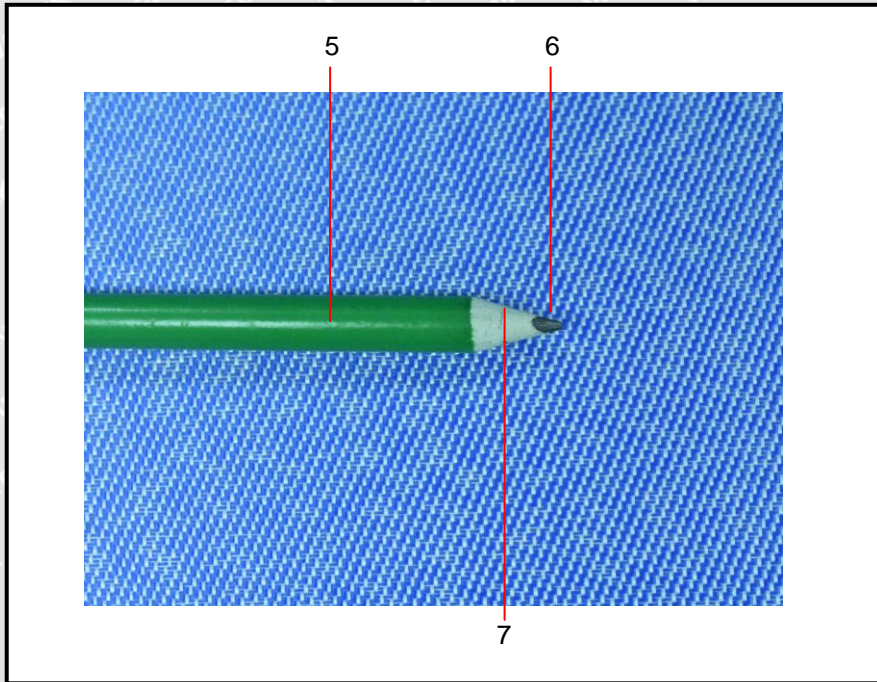


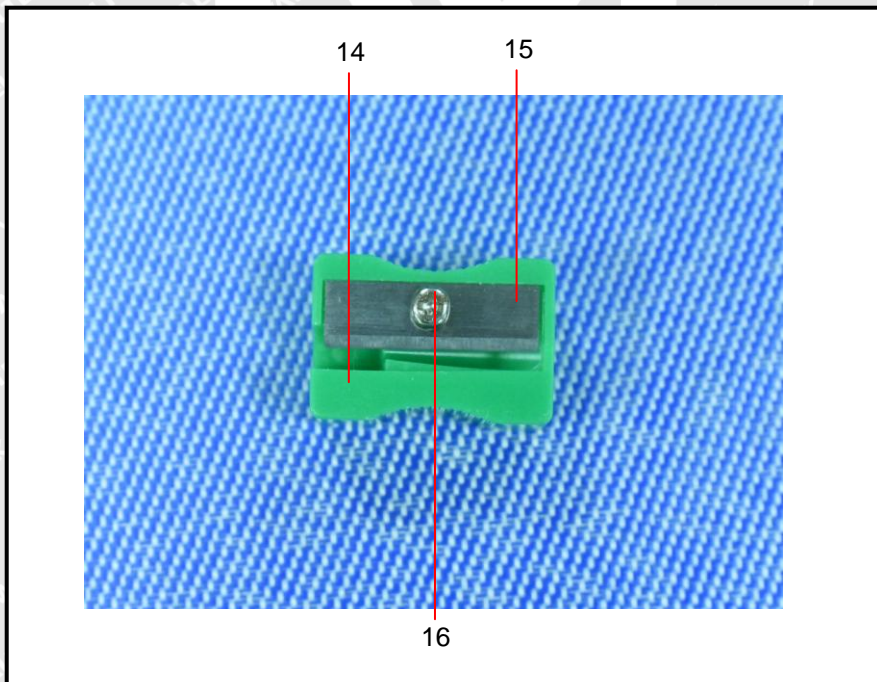
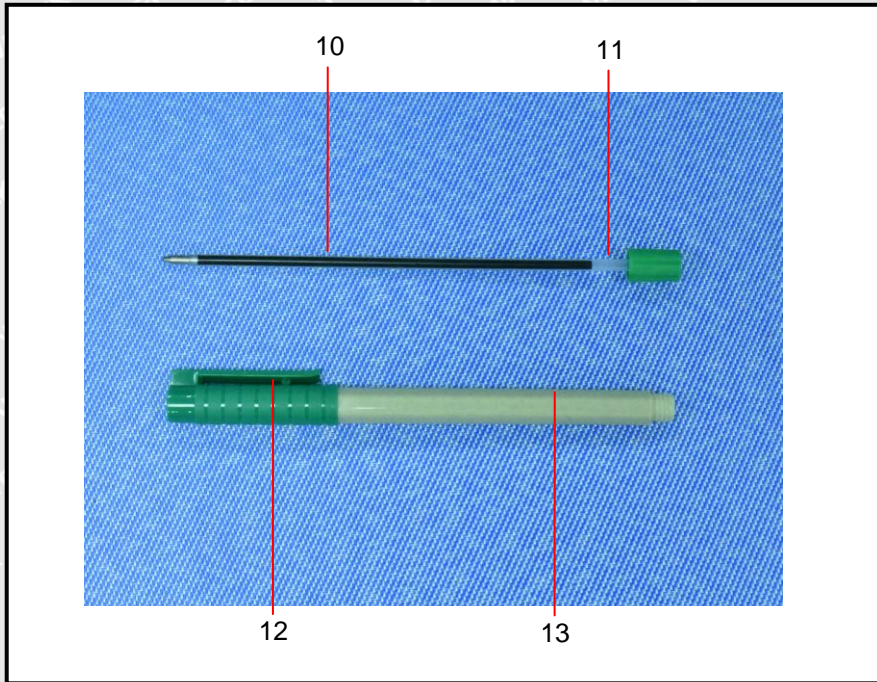
Sample photo:



Photographs of parts tested:







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