



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

**Reference No.** ..... : WTF20F04015417C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong  
**Manufacturer** ..... : 108694  
**Sample Name** ..... : ball pen  
**Model No.** ..... : MO9951  
**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  
**Test Method** ..... : Please refer to next page (s)  
**Test Conclusion** ..... : Please refer to next page (s)  
**Date of Receipt sample** ..... : 2020-04-01  
**Date of Test** ..... : 2020-04-01 to 2020-04-08  
**Date of Issue** ..... : 2020-04-08  
**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 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*

Rena.Chen / Project Engineer

Approved by:



*Swing Liang*

Swing.Liang / Technical Manager

**Test Result:****1) 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.13	No.2	No.3	
Lead(Pb)	2	ND*	ND	ND	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

Test Item	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.4+No.5+No.6	No.7+No.8+No.9	
Lead(Pb)	2	60*	64*	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--

Test Item	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.10+No.11	No.12	
Lead(Pb)	2	ND*	ND	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	--

**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.

# WALTEK



## 2) 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.13	No.4++No.5+No.6	No.7+No.8+No.9
Cadmium(Cd)	2	ND*	ND*	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item	MDL (mg/kg)	Results (mg/kg)	
		No.10+No.11	No.12
Cadmium(Cd)	2	ND*	ND*
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>

### 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

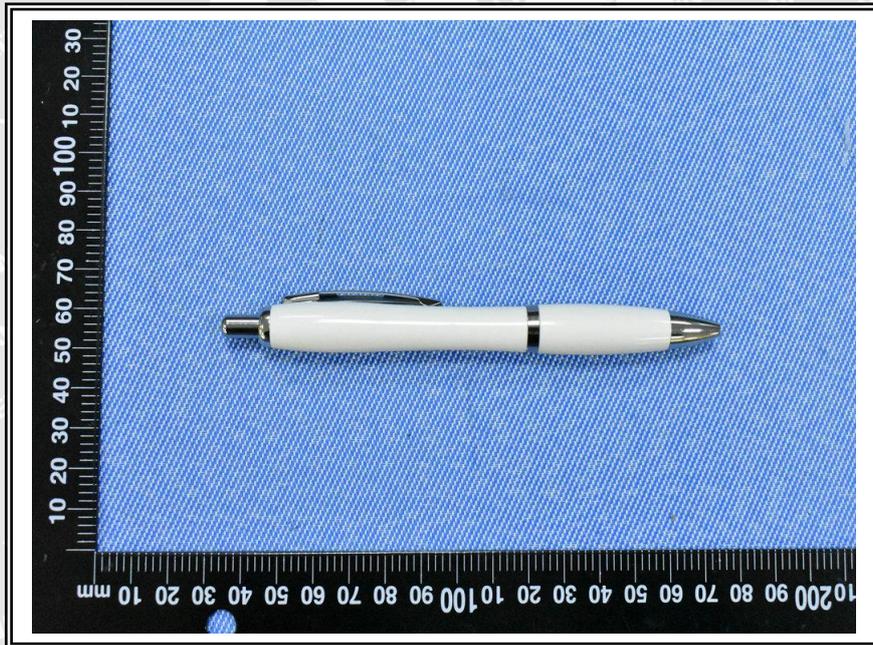
- (5) "\*" = Results are calculated by the minimum weight of mixed components.

### Test Specimen Description:

- No.1: White plastic barrel
- No.2: Silvery metal clip
- No.3: Silvery metal spring
- No.4: White plastic cap with silvery plating
- No.5: White plastic cap with silvery plating
- No.6: White plastic ring with silvery plating
- No.7: Black plastic end
- No.8: White plastic end
- No.9: White plastic tube
- No.10: White plastic end
- No.11: White plastic refill
- No.12: Blue ink
- No.13: Off-white plastic barrel

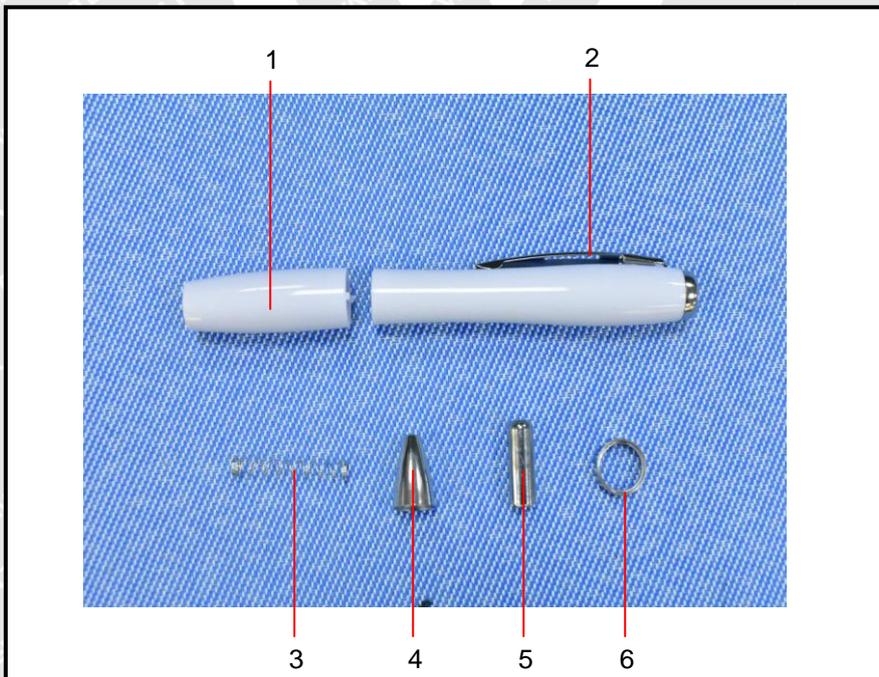


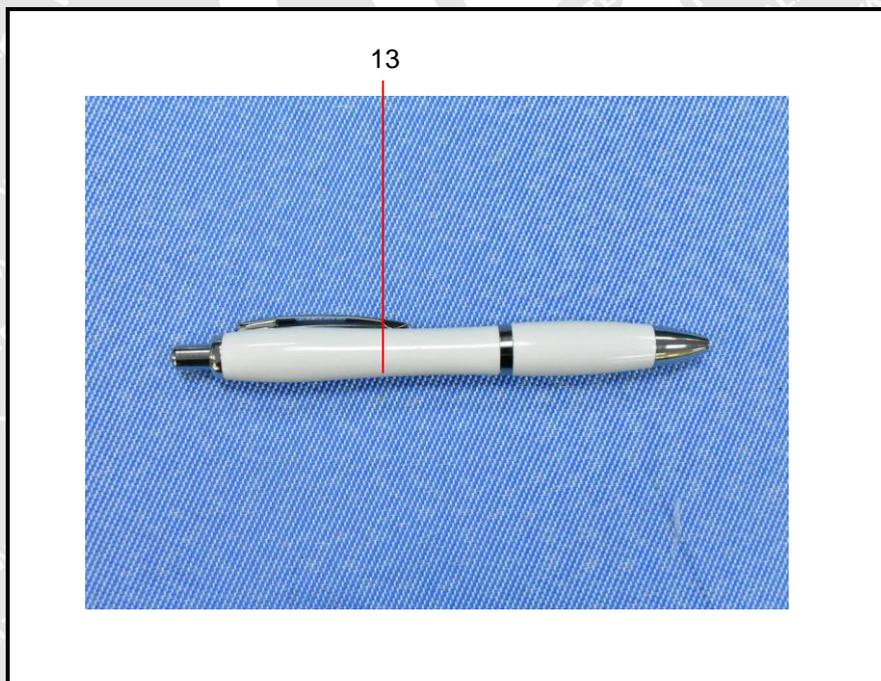
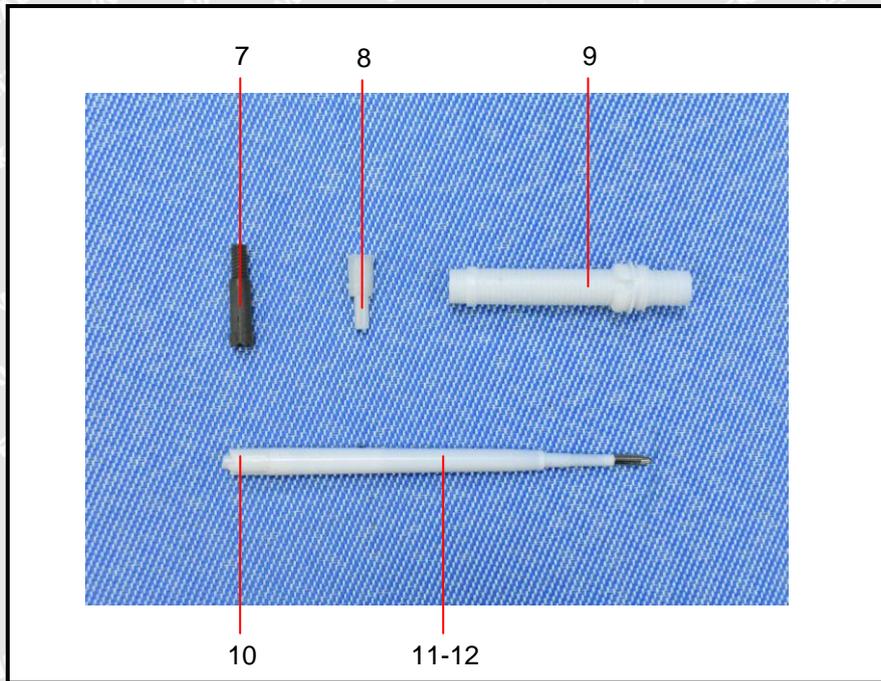
Sample photo:





Photographs of parts tested:





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

# TEST REPORT

Applicant: MID OCEAN BRANDS BV  
7/F, KINGS TOWER,  
111 KING LAM STREET,  
CHEUNG SHA WAN,  
KOWLOON  
HK

Number: HKGH02578589

Date: Apr 24, 2020

Attn: GARY YUEN

Submitted sample said to be :  
Item Name : anti-bacterial pen  
Model No. : MO9951  
Vendor : **108694**  
Country of Origin : China



\*\*\*\*\*

**Conclusion:**

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) REACH Regulation (EC) No. 1907/2006, Annex XVII Item 27 & Amendment No. 552/2009 (Formerly Known as Directive 94/27/EC and 2004/96/EC) - Nickel release content requirement (For Coated Item)	Pass

\*\*\*\*\*

For and on behalf of :  
Intertek Testing Services HK Ltd.

Cindy I.K. Chan  
Vice President



# TEST REPORT

Number : HKGH02578589

(1) Release of Nickel for Coated Item

Test Standard : EN12472 : 2005 + A1 : 2009 and EN1811 : 2011 + A1 : 2015.

Tested Components	Trial	Sample Area (cm <sup>2</sup> )	Volume of Test Solution (ml)	Result (µg/cm <sup>2</sup> /week)
(1)	1	59	59	<0.05
	2	59	59	<0.05
	3	59	59	<0.05

Requirement : 0.5 µg/cm<sup>2</sup>/week

Tested Component:

(1) Ivory plastic (plate).

Δ : According to EN1811 : 2011 + A1 : 2015, compliance decision was made based on the following rules.

<u>Result</u>	<u>Interpretation</u>
< 0.88	Compliance (Pass)
≥ 0.88	Non-compliance (Fail)

Date sample received : Apr 09, 2020  
Test Period : Apr 09, 2020 to Apr 24, 2020

\*\*\*\*\*

End of report

*Except where explicitly agreed in writing, all work and services performed by Intertek is subject to our standard Terms and Conditions which can be obtained at our website: <http://www.intertek.com/terms/>. Intertek's responsibility and liability are limited to the terms and conditions of the agreement.*

*This report is made solely on the basis of your instructions and / or information and materials supplied by you and provide no warranty on the tested sample(s) be truly representative of the sample source. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. Intertek is under no obligation to refer to or report upon any facts or circumstances which are outside the specific instructions received and accepts no responsibility to any parties whatsoever, following the issue of the report, for any matters arising outside the agreed scope of the works. This report does not discharge or release you from your legal obligations and duties to any other person. You are the only one authorized to permit copying or distribution of this report (and then only in its entirety). Any such third parties to whom this report may be circulated rely on the content of the report solely at their own risk.*

*This report shall not be reproduced, except in full.*

