



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

**Reference No.** ..... : WTF17F0579957R1C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : Unit 201 2/F., Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong.  
**Manufacturer** ..... : 104901  
**Sample Name** ..... : Twist and touch ball pen  
**Model No.** ..... : MO8209  
**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** ..... : 2017-05-22 & 2018-05-17  
**Date of Test** ..... : 2017-05-22 to 2017-06-07 & 2018-05-17 to 2018-05-22  
**Date of Issue** ..... : 2018-05-23  
**Test Result** ..... : Please refer to next page (s)  
**Note** ..... : As per client's requirement, the results of specimen from No.1 to No.13 were quoted from Report No. WTF17F0579957C

**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 reporter and reviewer.

**Prepared By:**

**Waltek Services (Foshan) Co., Ltd.**

Address: No. 13-19, 2/F, 2nd Building, Sunlink International Machinery City, Chencun Town, Shunde District, Foshan, Guangdong, China  
 Tel : +86-757-23811398  
 Fax: +86-757-23811381

Compiled by:

*Swing Liang*

Swing.Liang /Project Engineer

Approved by:



*Dino Zhang*

Dino Zhang /Lab 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.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	
Lead(Pb)	2	ND	ND	ND	ND	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

Test Item	MDL (mg/kg)	Results (mg/kg)				Limit (mg/kg)
		No.8	No.9	No.10	No.11	
Lead(Pb)	2	ND	ND	ND	22	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	--

Test Item	MDL (mg/kg)	Results (mg/kg)				Limit (mg/kg)
		No.12	No.13	No.14	No.15	
Lead(Pb)	2	ND	ND	ND	ND	500
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</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.

### 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.2	No.3	No.4	No.5
Cadmium(Cd)	2	ND	ND	ND	ND	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item	MDL (mg/kg)	Results (mg/kg)				
		No.6	No.9	No.10	No.12	No.13
Cadmium(Cd)	2	ND	ND	ND	ND	ND
<b>Conclusion</b>	--	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



Test Item	MDL (mg/kg)	Results (mg/kg)	
		No.14	No.15
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

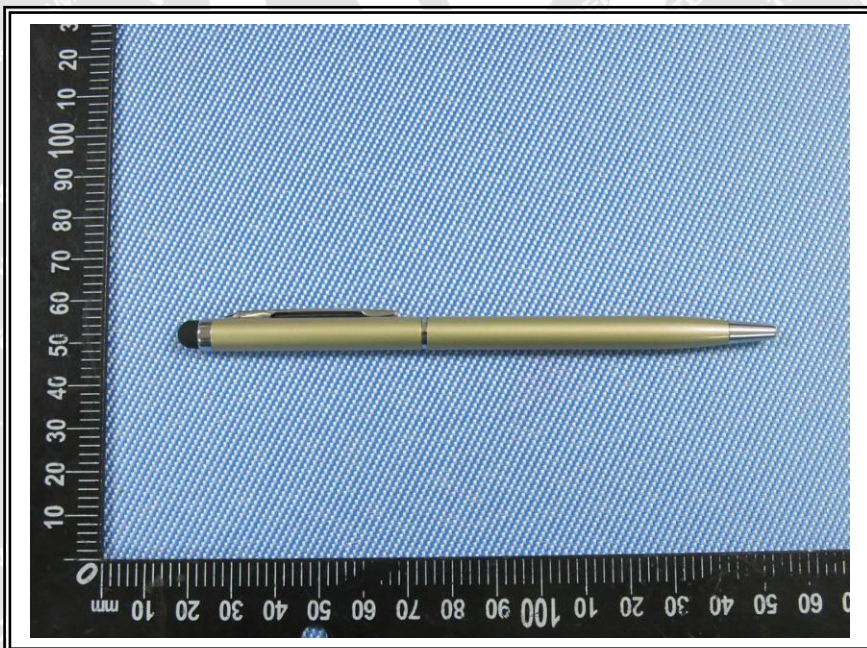
**Test Specimen Description:**

- No.1: Black coating
- No.2: White coating
- No.3: Dark grey coating
- No.4: Silvery coating
- No.5: White plastic cap with silvery plating
- No.6: Black rubber cap
- No.7: Coppery metal clip with silvery plating
- No.8: Blue ink
- No.9: Transparent plastic sleeve
- No.10: Blue plastic sheet
- No.11: Silvery metal sleeve
- No.12: White plastic stopper
- No.13: Golden coating
- No.14: Red coating
- No.15: Blue coating





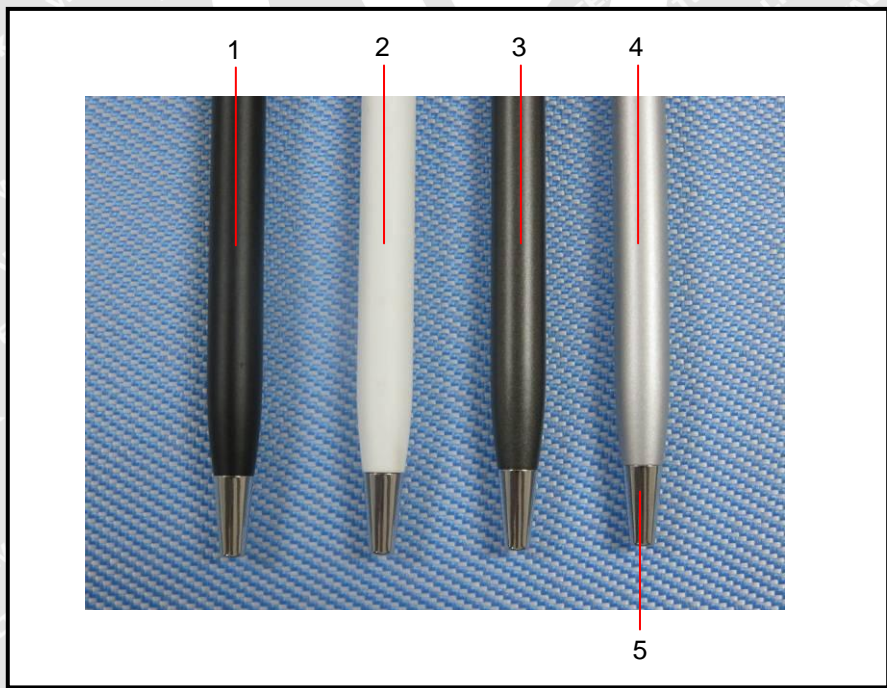
**Sample photo:**



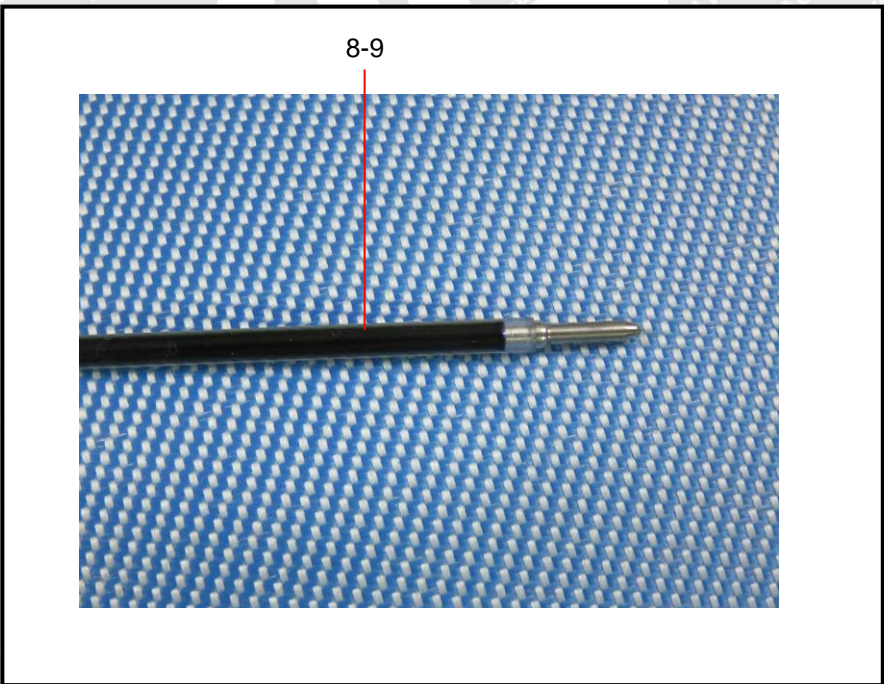
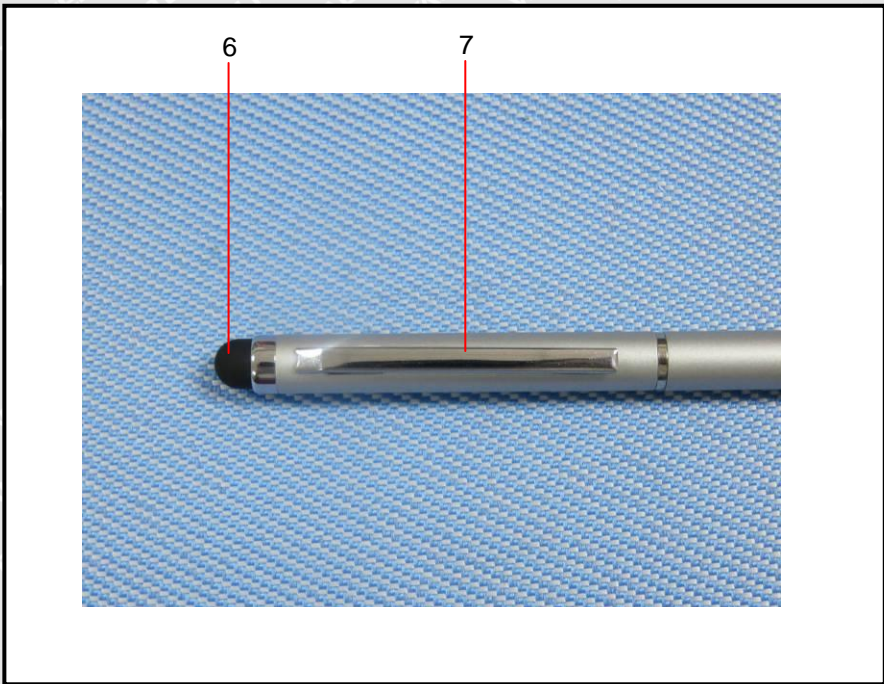


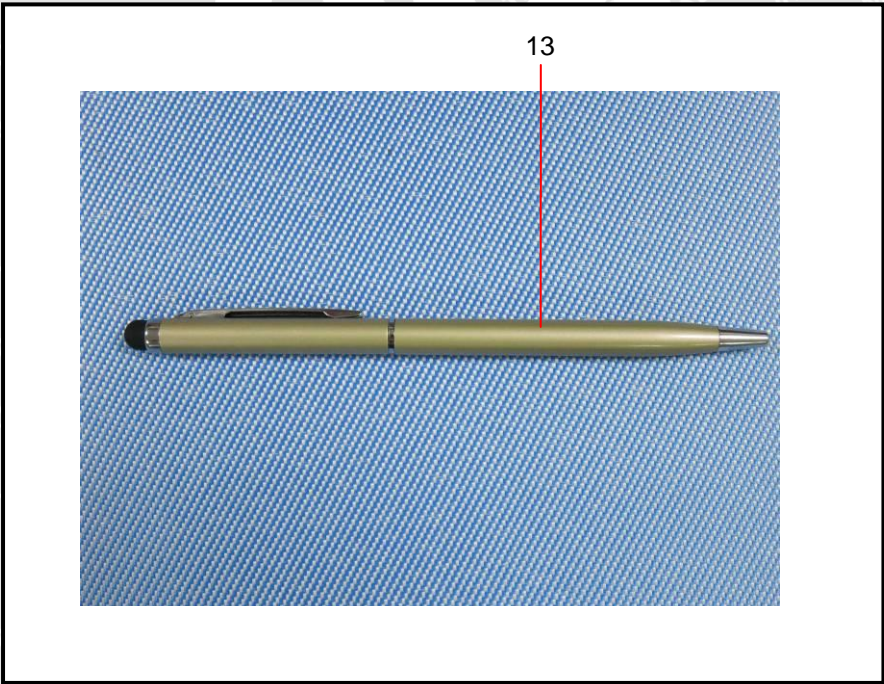
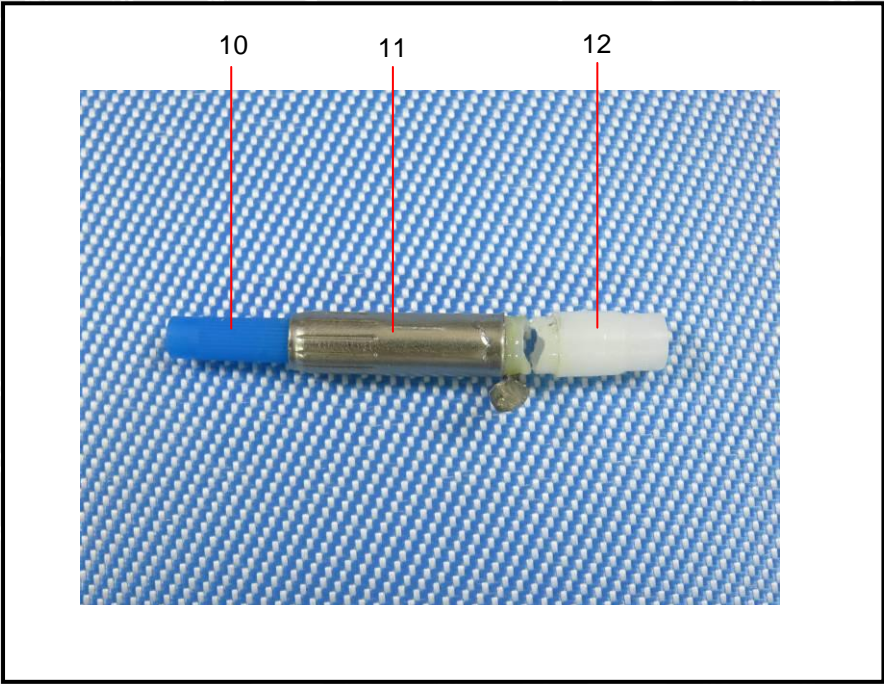


Photographs of parts tested:

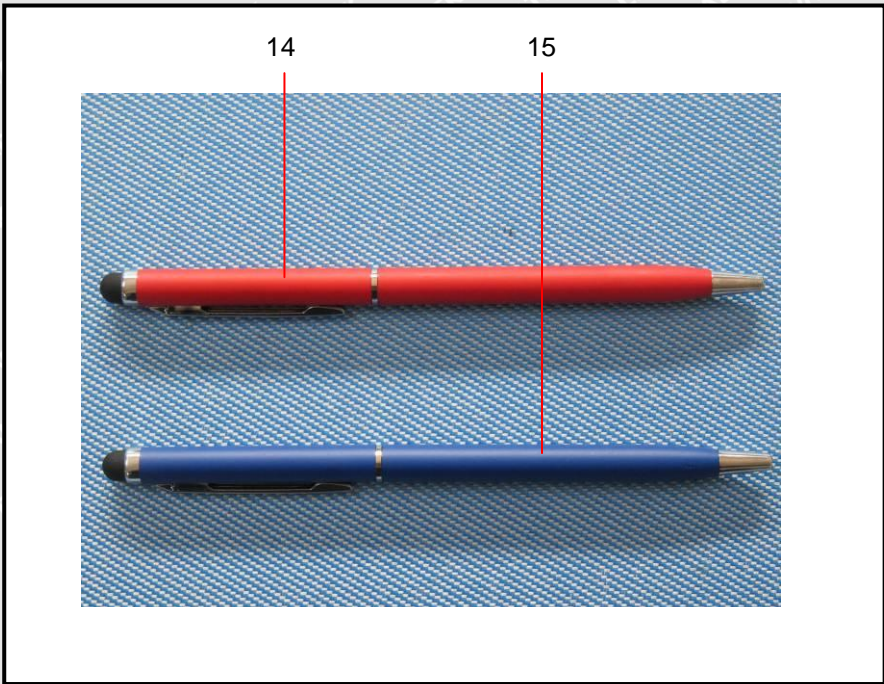












==== End of Report ====

# WALTEK