



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF18F10125681X1C
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 : 112530
Sample Name : Push button ball pen, Ball pen
Model No. : KC3314, MO3314
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 : 2018-10-09
Date of Test : 2018-10-09 to 2018-10-12
Date of Issue : 2018-10-24
Test Result : Please refer to next page (s)
Note : 1.As per client's requirement, the results of specimen from No.1 to No.11 were quoted from Report No.WTF18F03104313C.
 2.This report is based on Waltek test report WTF18F10125681C for revising, and replaced report WTF18F10125681C.

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: 2/F., Building 2 and 1/F., Building 19 Sunlink International Machinery City, Chencun, Shunde District, Foshan, Guangdong, China
 Tel : +86-757-23811398
 Fax: +86-757-23811381

Compiled by:

Swing Liang

Swing.Liang /Project Engineer

Approved by:



Ding Zhang

Ding 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
Conclusion	--	Pass	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.4	No.5	No.6	
Lead(Pb)	2	39	ND	ND	500
Conclusion	--	Pass	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)			Limit (mg/kg)
		No.7	No.8	No.9	
Lead(Pb)	2	ND	ND	ND	500
Conclusion	--	Pass	Pass	Pass	--

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

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



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
Cadmium(Cd)	2	ND	ND	ND
Conclusion	--	Pass	Pass	Pass

Test Item	MDL (mg/kg)	Results (mg/kg)		
		No.4	No.5	No.6
Cadmium(Cd)	2	ND	ND	ND
Conclusion	--	Pass	Pass	Pass

Test Item	MDL (mg/kg)	Results (mg/kg)			
		No.8	No.9	No.12	No.13
Cadmium(Cd)	2	ND	ND	ND	ND
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 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: White plastic cap with silvery plating
- No.2: Blue transparent plastic sleeve
- No.3: Blue transparent plastic sleeve
- No.4: Black plastic stopper
- No.5: White plastic sleeve
- No.6: White plastic sleeve
- No.7: Black ink
- No.8: White plastic sleeve
- No.9: White plastic stopper
- No.10: Silvery metal spring
- No.11: Silvery metal clip
- No.12: Purple-red transparent plastic sleeve
- No.13: Purple-red transparent plastic sleeve
- No.14: Blue ink

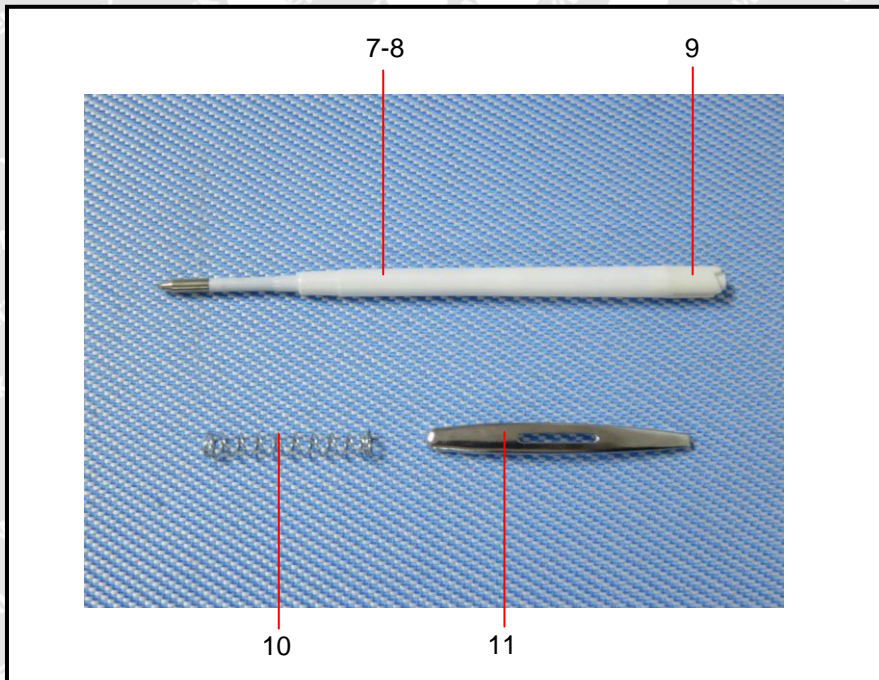
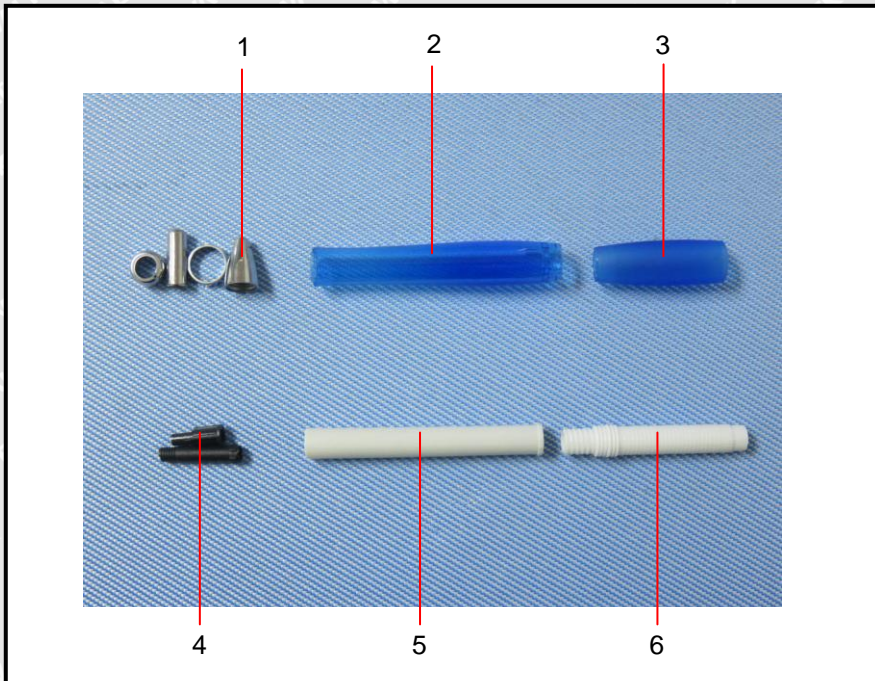


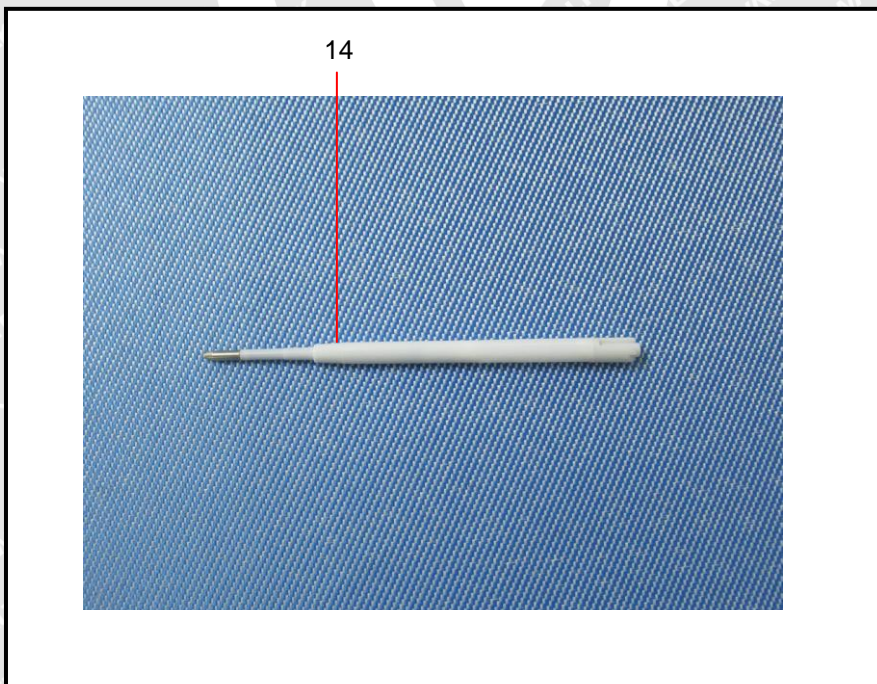
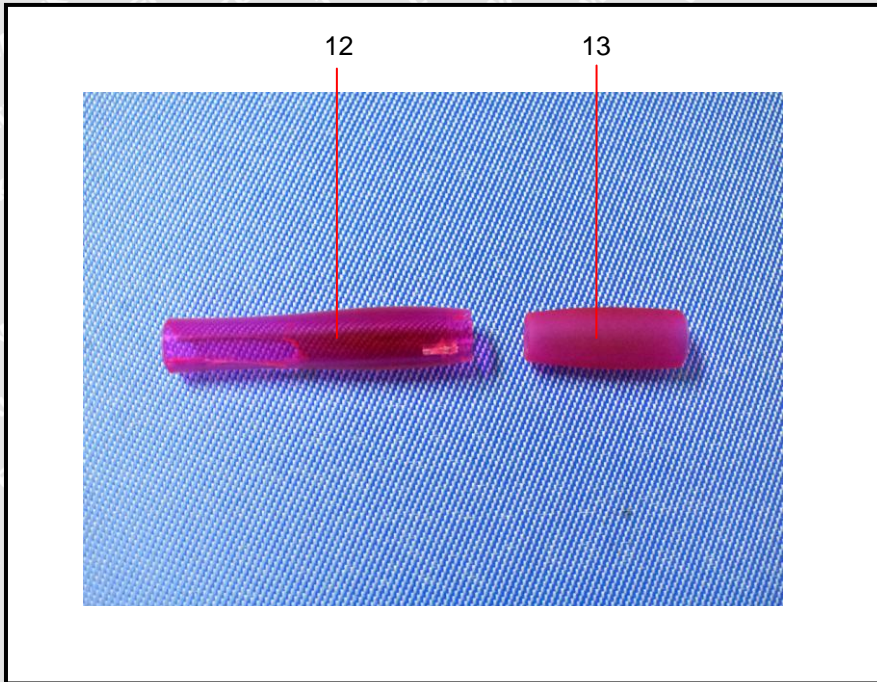
Sample photo:





Photographs of parts tested:





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