



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF21F11119302C

Applicant : Mid Ocean Brands B.V.

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

Manufacturer : 104901

Sample Name : 2in1 ball pen

Model No. : MO7440

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 : 2021-11-04

Date of Test : 2021-11-04 to 2021-11-11

Date of Issue : 2021-11-12

Test Result : Please refer to next page (s)

Note : As specified by client, only test the designated sample.

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) Lead (Pb)**

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

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.1+No.2+No.10	No.3+No.8	
Lead(Pb)	2	ND*	ND*	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.4	No.5+No.6+No.7	
Lead(Pb)	2	ND	ND*	500
Conclusion	--	Pass	Pass	--

Test Item	LOQ (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.9+No.11+No.14	No.12+No.13+No.15	
Lead(Pb)	2	ND*	ND*	500
Conclusion	--	Pass	Pass	--

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) Cadmium (Cd)

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

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.1+No.2+No.10	No.4
Cadmium(Cd)	2	ND*	ND
Conclusion	--	Pass	Pass

Test Item	LOQ (mg/kg)	Results (mg/kg)	
		No.5+No.6+No.7	No.9+No.11+No.14
Cadmium(Cd)	2	ND*	ND*
Conclusion	--	Pass	Pass

Test Item	LOQ (mg/kg)	Results (mg/kg)
		No.12+No.13+No.15
Cadmium(Cd)	2	ND*
Conclusion	--	Pass

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (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

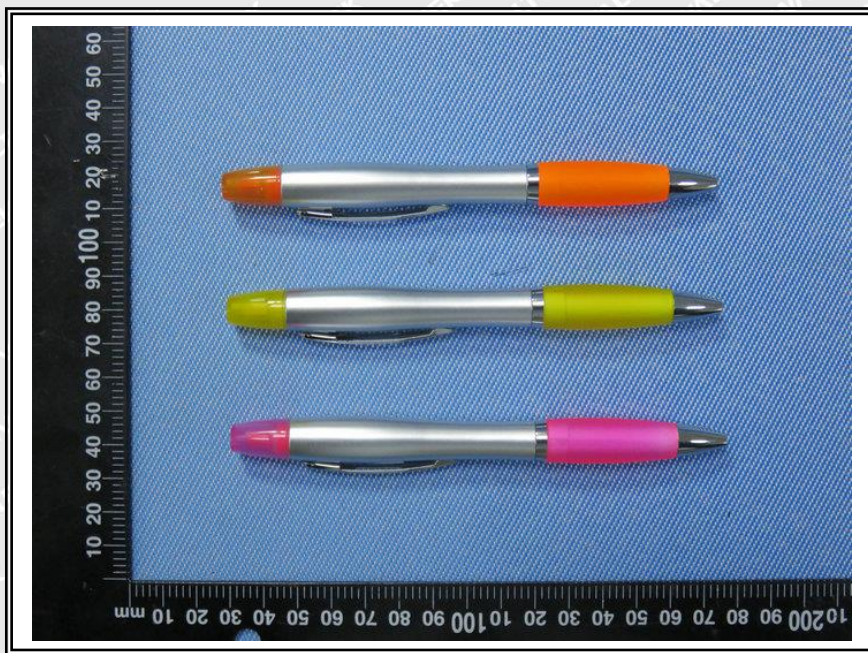
- (5) "*" = Results are calculated by the minimum weight of mixed components.



Test Specimen Description:

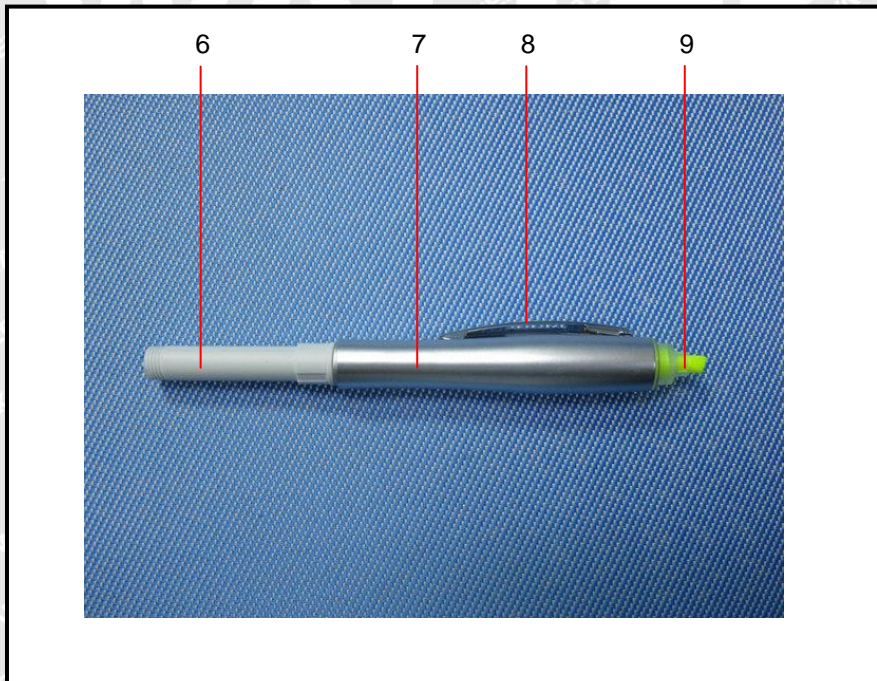
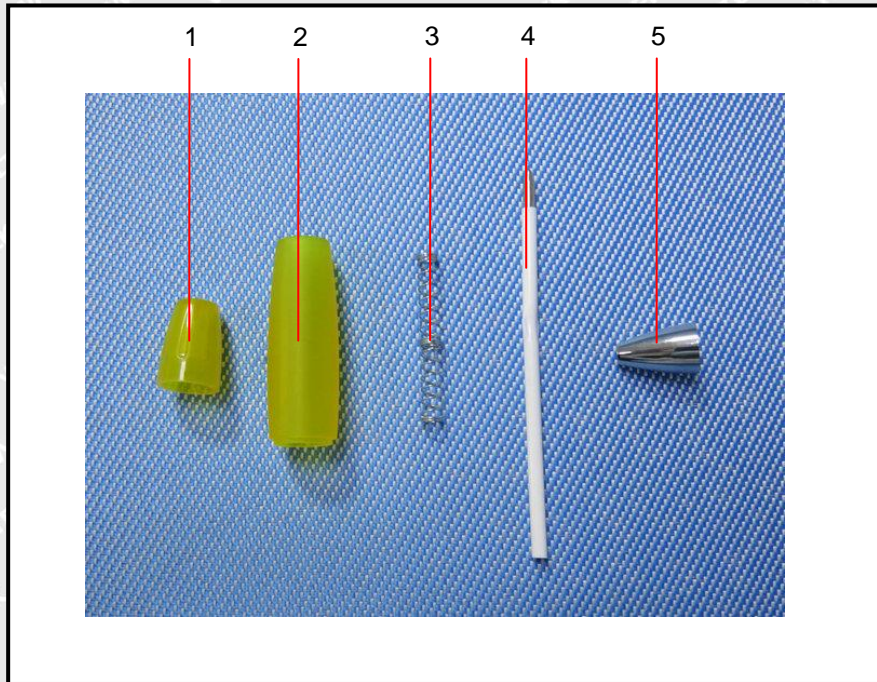
- No.1: Yellow plastic cap
- No.2: Yellow plastic shell
- No.3: Silvery metal spring
- No.4: White plastic tube
- No.5: White plastic shell with silvery coating
- No.6: White plastic tube
- No.7: Black plastic tube with silvery coating
- No.8: Silvery metal parts
- No.9: Yellow ink
- No.10: Orange plastic shell
- No.11: Orange ink
- No.12: Orange plastic cap
- No.13: Pink plastic shell
- No.14: Pink ink
- No.15: Pink plastic cap

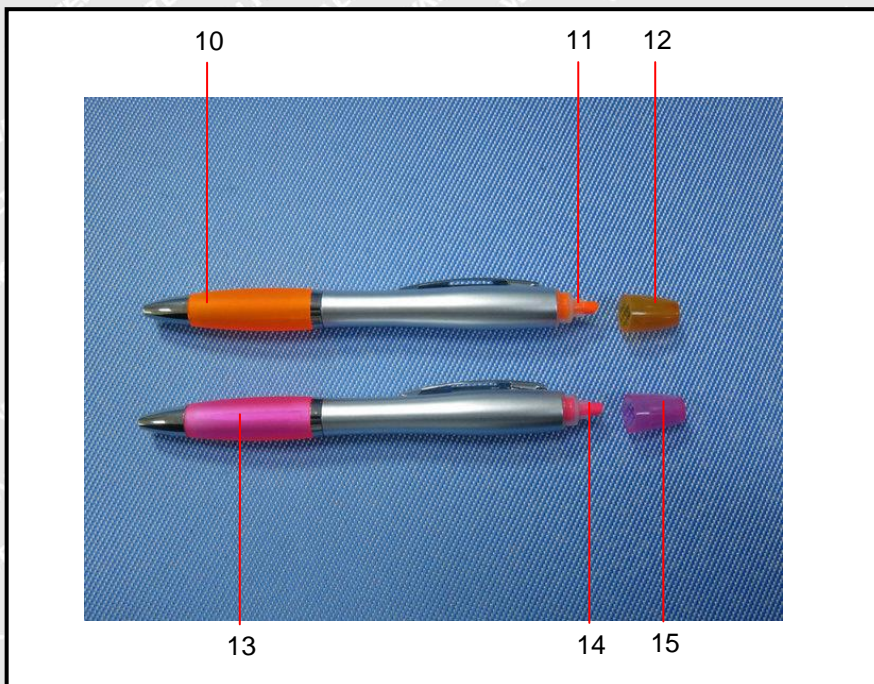
Sample photo:





Photographs of parts tested:





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

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