



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF18F09123923C

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 in bamboo

Model No. : MO8052

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
3) 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 : 2018-09-14

Date of Test : 2018-09-14 to 2018-09-22

Date of Issue : 2018-09-22

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 reporter and reviewer.

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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	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.1	No.2	
Lead(Pb)	2	ND	ND	500
Conclusion	--	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.3	No.4	
Lead(Pb)	2	ND	37	500
Conclusion	--	Pass	Pass	--

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

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

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

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

Test Item	MDL (mg/kg)	Results (mg/kg)	
		No.9	
Cadmium(Cd)	2	ND	
Conclusion	--	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

3) Formaldehyde

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

Test Item	Unit	Result	MDL	Client's Limit
		No.6		
Formaldehyde (CH ₂ O)	mg/kg	ND	10	80
Conclusion	--	Pass	--	--

Note:

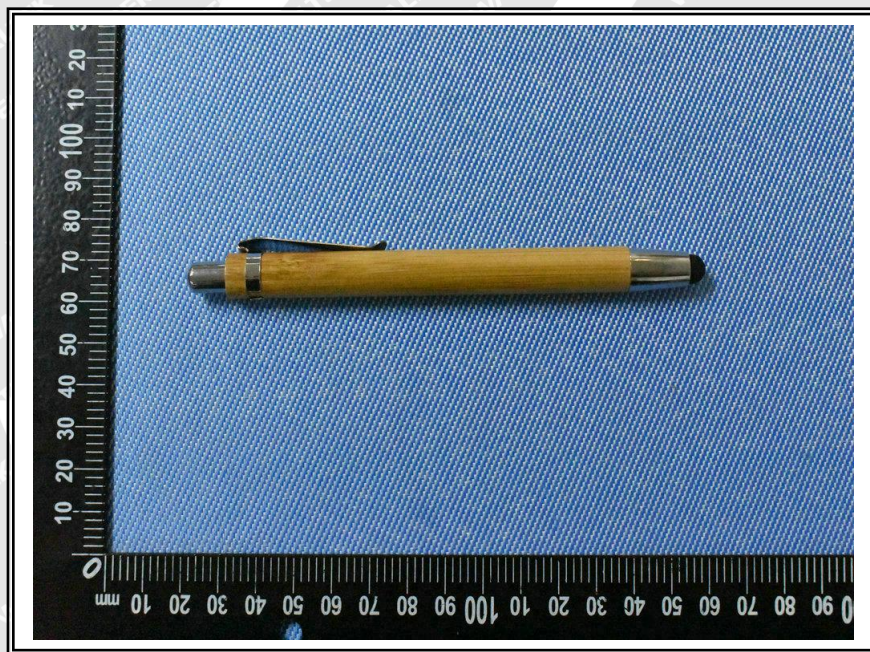
- ND = Not detected or less than the method detection limit
- mg/kg = milligram per kilogram = ppm
- MDL = Method Detection Limit



Test Specimen Description:

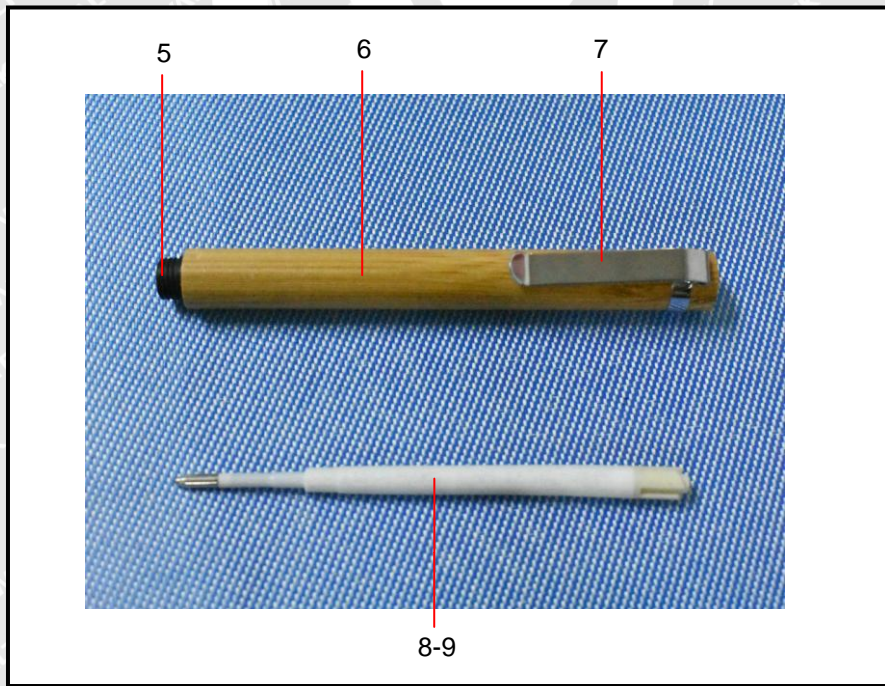
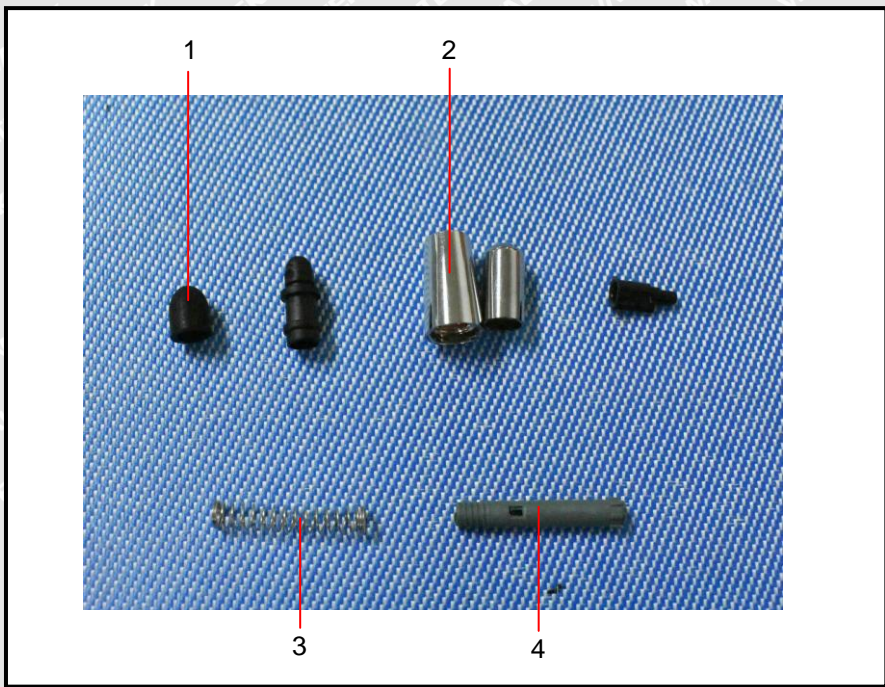
- No.1: Black soft plastic stylus
- No.2: Black plastic cap with silvery plating
- No.3: Silvery metal spring
- No.4: Grey-blue plastic sleeve
- No.5: Black plastic barrel
- No.6: Brown wooden barrel
- No.7: Silvery metal clip
- No.8: Blue ink
- No.9: White plastic refill

Sample photo:





Photographs of parts tested:



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