



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF18F11129643C

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 : Cork/wheat straw/PP ball pen, Bamboo/wheat straw/PP ball pen, Wheat straw/PP push type pen

Model No. : MO9480, MO9481, MO9614

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 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..... : 2018-11-20

Date of Test..... : 2018-11-20 to 2018-11-23

Date of Issue : 2018-11-23

Test Result..... : Please refer to next page (s)

Note : As per applicant's requirement, the results of specimen from No.1 to No.6 are extracted from report No. WTF18F09123562C.
As per applicant's requirement, the results of specimen No.7 are extracted from report No. WTF18F08121853A1C.

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 | 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 | ND | ND | ND | 500 |
| Conclusion | -- | Pass | 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+No.10+No.11 | |
| 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.
- (5) "*" = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only



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.3 | No.4 |
| Cadmium(Cd) | 2 | ND | ND | ND |
| Conclusion | -- | Pass | Pass | Pass |

| Test Item | MDL (mg/kg) | Results (mg/kg) | | |
|-------------------|----------------|-----------------|-------------|-------------|
| | | No.5 | No.6 | No.8 |
| Cadmium(Cd) | 2 | ND | ND | ND |
| Conclusion | -- | Pass | Pass | Pass |

| Test Item | MDL (mg/kg) | Results (mg/kg) |
|-------------------|----------------|------------------|
| | | No.9+No.10+No.11 |
| 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 |

- (5) "*" = As per applicant's requirement, the testing was conducted based on mixed components, the test result is for reference only



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.3 | | |
| Formaldehyde (CH ₂ O) | mg/kg | ND | 10 | 80 |
| Conclusion | -- | Pass | -- | -- |

| Test Item | Unit | Result | MDL | Client's Limit |
|----------------------------------|-------|-------------|-----|----------------|
| | | No.7 | | |
| Formaldehyde (CH ₂ O) | mg/kg | ND | 10 | 80 |
| Conclusion | -- | Pass | -- | -- |

| Test Item | Unit | Result | MDL | Client's Limit |
|----------------------------------|-------|-------------|-----|----------------|
| | | No.8 | | |
| 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: Red plastic sleeve
- No.2: Silvery metal spring
- No.3: Brown paper sleeve
- No.4: Blue ink
- No.5: White plastic refill
- No.6: Black plastic sleeve
- No.7: Beige wooden barrel
- No.8: Mixture of wheat straw and red PP
- No.9: Black plastic inner barrel
- No.10: Semi-transparent plastic inner
- No.11: White plastic screw

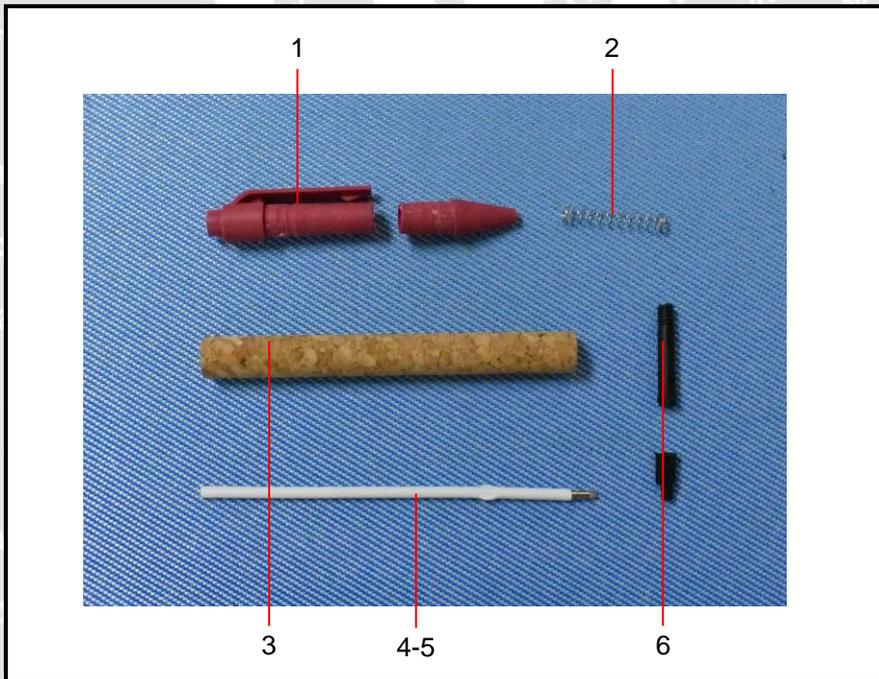


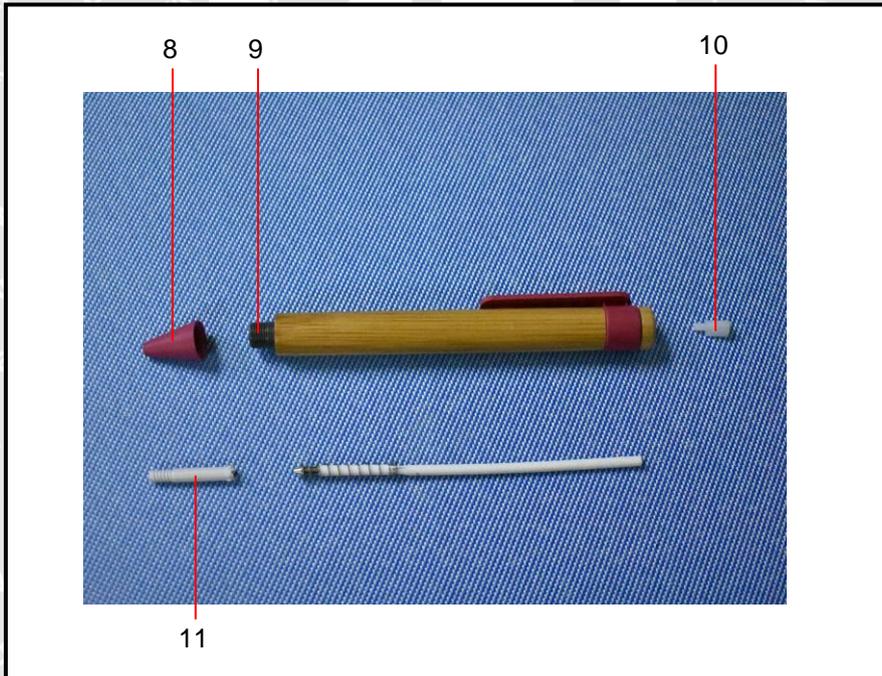
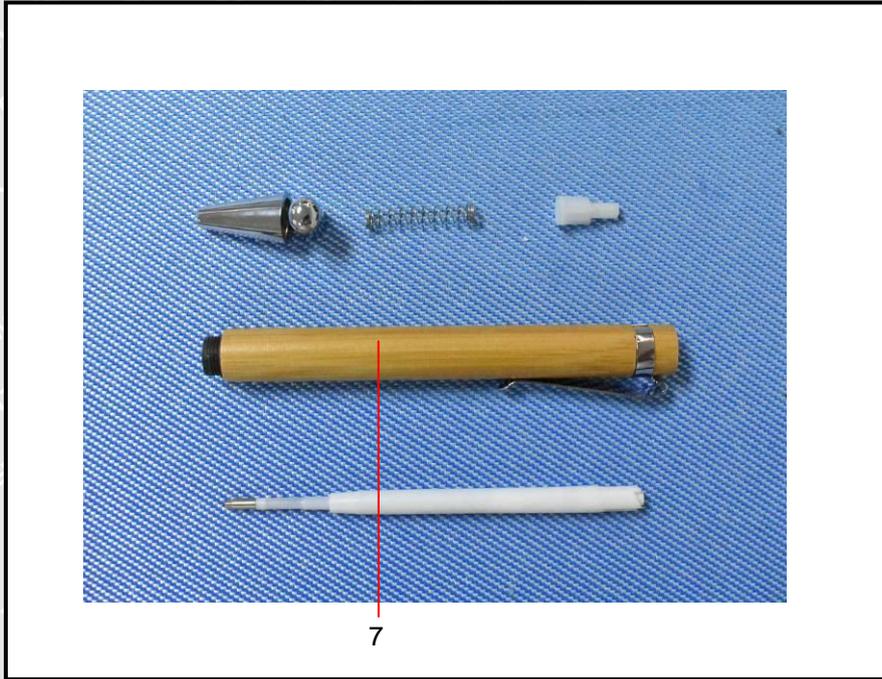
Sample photo:





Photographs of parts tested:





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