

# Test Report

Report No. : AGC05443221001-001

**SAMPLE NAME** : Bamboo twist type ball pen

**MODEL NAME** : MO6821

**APPLICANT** : MID OCEAN BRANDS B.V

**STANDARD(S)** : Please refer to the following page(s).

**DATE OF ISSUE** : Nov.09, 2022

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Applicant : MID OCEAN BRANDS B.V  
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.  
Test Site : 2,6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

**Report on the submitted sample(s) said to be:**

Sample Name : Bamboo twist type ball pen  
Model : MO6821  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Vendor code : 104901  
Sample Received Date : Oct.09, 2022  
Testing Period : Oct.09, 2022 to Nov.09, 2022

Approved by: Jessie.Liang

Liangdan, Jessie.Liang

Technical Director

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## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Nov.09, 2022	Valid	Initial release

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**Test Requested:****Conclusion**

1. As specified by client, to determine the Phthalates content in the submitted sample(s) with reference to entry 51&52, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
2. As specified by client, to determine the Cadmium(Cd) content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
3. As specified by client, to determine the Lead(Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
4. As specified by client, to determine the Nickel Release in the submitted sample(s) with reference to entry 27, Annex XVII of the REACH Regulation (EC) No 1907/2006 .	Pass
5. As specified by client, to determine the Formaldehyde Release content in the submitted sample(s).	Pass

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**Test Result(s):**
**1. Test Result of Phthalates Content**

Test Item	Test Method/ Instrument	MDL	Limit
Diisobutyl phthalate(DIBP) (CAS No.: 84-69-5)	EN 14372:2004/ GC-MS	0.010%	Single<0.1% Sum<0.1%
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		0.010%	
Butylbenzyl phthalate (BBP) (CAS No.: 85-68-7)		0.010%	
Di-(2-ethylhexyl) Phthalate (DEHP) (CAS No.: 117-81-7)		0.010%	
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		0.010%	
Di-isobutyl phthalate (DINP) (CAS No.: 28553-12-0;68515-48-0)		0.010%	
Di-isodecyl phthalate(DIDP) (CAS No.: 26761-40-0; 68515-49-1)		0.010%	

Test point	Test result (%)									Conclusion
	DIBP	DBP	BBP	DEHP	Sum(DIBP+DBP+BBP+DEHP)	DNOP	DINP	DIDP	Sum(DNOP+DINP+DIDP)	
1-4 <sup>△</sup>	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity
1-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity

**2. Test Result of Cadmium(Cd) Content**

Test Item	Cadmium(Cd) (CAS No.: 7440-43-9)								
Limit(mg/kg)	<100								
MDL(mg/kg)	10								
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES								

Test point	Test result (mg/kg)		Conclusion
	Cadmium(Cd)		
1-3	N.D.		Conformity
1-4 <sup>△</sup>	N.D.		Conformity
1-6	N.D.		Conformity

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### 3. Test Result of Lead(Pb) Content

Test Item	Lead(Pb) (CAS No.: 7439-92-1)
Limit(mg/kg)	<500
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1	N.D.	Conformity
1-2	N.D.	Conformity
1-3	N.D.	Conformity
1-4 <sup>△</sup>	47	Conformity
1-5	N.D.	Conformity
1-6	N.D.	Conformity

### 4. Test Result of Nickel Release Content

Test Item	Nickel Release		
Limit( $\mu\text{g}/\text{cm}^2/\text{week}$ )	Type of sample	Pass	Fail
	Article with Nickel release limit of 0.5 $\mu\text{g}/\text{cm}^2/\text{week}$ (Non-body piercing)	<0.88	$\geq 0.88$
	Article with Nickel release limit of 0.2 $\mu\text{g}/\text{cm}^2/\text{week}$ (Body piercing)	<0.35	$\geq 0.35$
MDL( $\mu\text{g}/\text{cm}^2/\text{week}$ )	0.05		
Test Method/ Instrument	EN 12472:2020 EN 1811:2011+A1:2015 ICP-OES		

Test point	Test result ( $\mu\text{g}/\text{cm}^2/\text{week}$ )		Conclusion
	Nickel Release		
1-2	A	N.D.	Conformity
	B	N.D.	
	C	N.D.	

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## 6. Test Result of Formaldehyde Release

<b>Test Item(s)</b>	Formaldehyde Release
<b>Limit (Client's Requirement) (mg/kg)</b>	80
<b>MDL (mg/kg)</b>	1
<b>Test Method/ Equipment</b>	EN717-3:1996/ UV-Vis

<b>Test point</b>	<b>Test result (mg/kg)</b>	<b>Conclusion</b>
	<b>Formaldehyde Release</b>	
1-1	N.D.	<b>Conformity</b>

### Note:

mg/kg = milligram per kilogram

N.D.=Not Detected(less than method detection limit)

MDL = Method Detection Limit

$\mu$  g/cm<sup>2</sup>/week = microgram per square centimeter per week

%= percentage

### Remark:

-  $\triangle$ =As specified by client, the submitted samples were mixed to test.

- As specified by client, only test the designated sample.

Test result of Nickel Release Content on specimen No.1-2 was resubmitted on Oct.28, 2022.

### Test Point Description

<b>Test point</b>	<b>Test point description</b>
1-1	Bamboo barrel
1-2	Iron clip
1-3	Silver plating
1-4	Plastic pen head+ring
1-5	Spring
1-6	Inside white plastic pen barrel

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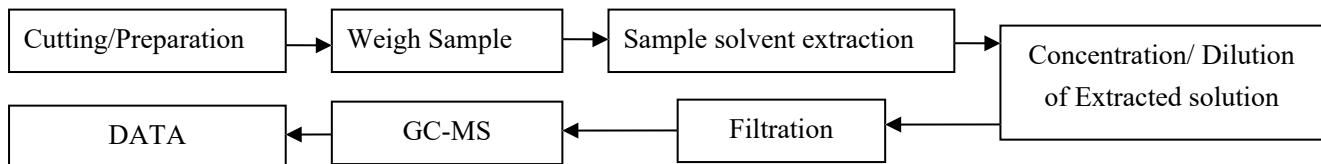
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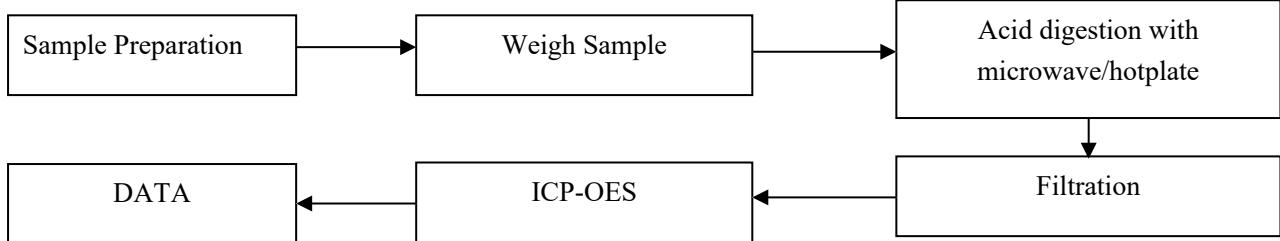
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## Test Flow Chart

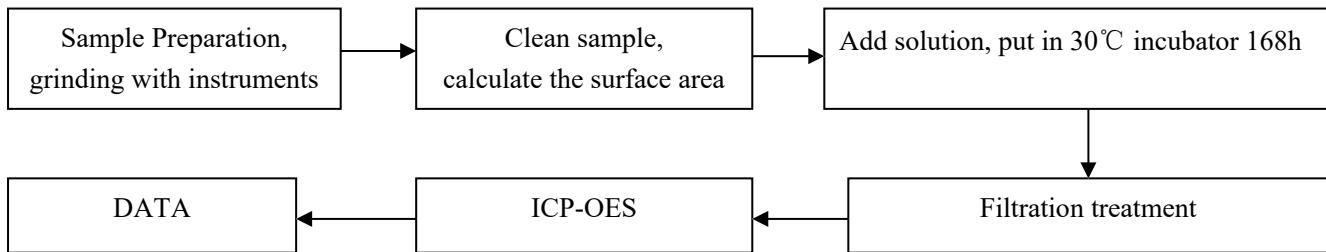
### 1. For Phthalates



### 2. For Cd,Pb



### 3. For Nickel Release

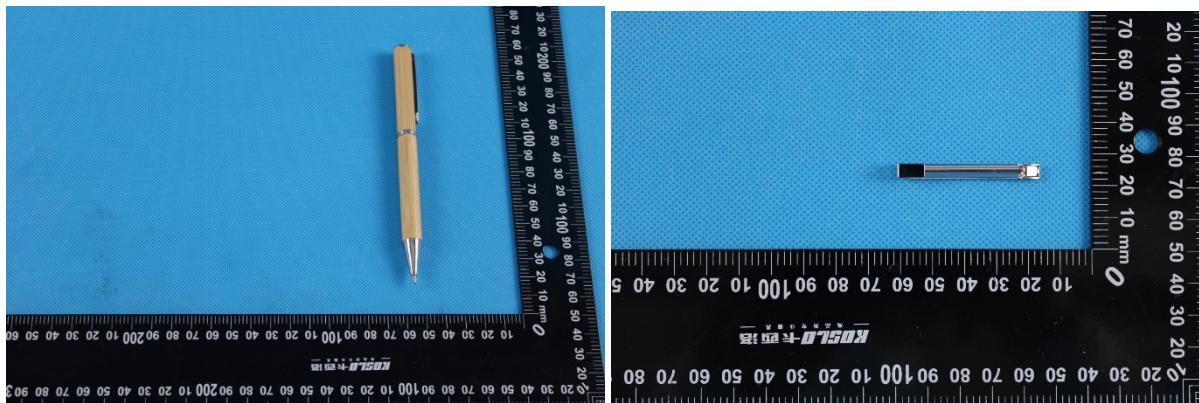


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**The photo of the sample****AGC05443221001-001**

AGC authenticate the photo only on original report

\*\*\* End of Report \*\*\*

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract or warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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