

# Test Report

Report No. : AGC05443251044-001

**SAMPLE NAME** : Ceramic mug

**MODEL NAME** : MO2958

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

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

**DATE OF ISSUE** : Oct. 31, 2025

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Page 1 of 12

Applicant : MID OCEAN BRANDS B.V.  
Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.  
Test Site : 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 : Ceramic mug  
Model : MO2958  
Vendor code : 119344  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample receiving state : Normal  
Sample Received Date : Oct. 28, 2025  
Testing Period : Oct. 28, 2025 to Oct. 31, 2025  
Test Requested : Selected test(s) as requested by client.

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

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63  
- Lead(Pb) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23  
- Cadmium(Cd) Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52  
- Phthalates Content

Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50  
- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Pass

Microwave heating resistance test

Pass

Mechanical dishwashing safe test

Pass

Regulation 1935/2004/EC, Council Directive 84/500/EEC  
- Migration of Lead and Cadmium

Pass

Approved by: Suhongliang

Suhongliang

Technical Director

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Page 2 of 12

## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Oct. 31, 2025	Valid	Initial release

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Page 3 of 12

**The photo of the sample**

The photo of AGC05443251044-001 is for use only with the original report.

**Test Point Description**

Test point	Test point description
1-1	White ceramic mug
1-2	Black silicone base
1-3	Petrol blue silicone base
1-4	Navy silicone base

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**Test Results:**

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%,

N/A= Not Applicable

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019/CNAS-GL015:2022.

**Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63****- Lead(Pb) Content**

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-2+1-3+1-4
Lead(Pb)	mg/kg	500	10	N.D.
Conclusion				Conformity

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-2+1-3+1-4

**Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23****- Cadmium(Cd) Content**

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-2+1-3+1-4
Cadmium(Cd)	mg/kg	100	10	N.D.
Conclusion				Conformity

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-2+1-3+1-4

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Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52
**- Phthalates Content**

Test Methods and Equipment: IEC 62321-8:2017; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-2+1-3+1-4
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.
Di-isobutyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.
Di-isodecyl phthalate (DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.
Sum of DIBP+DBP+BBP+DEHP	%	0.1	/	N.D.
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.
Conclusion				Conformity

**Remark:**

1. As specified by client, the submitted samples were mixed to test, the test points: 1-2+1-3+1-4

**Limit requirements of Phthalates**

Toys and childcare articles	Each of DEHP, DBP, BBP, DIBP is less than 0.1% or the sum of DEHP+DBP+BBP+DIBP is less than 0.1%
Toys and childcare articles which can be placed in the mouth by children	The sum of DINP+DIDP+DNOP is less than 0.1%

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Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50
- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-2+1-3+1-4
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.
Chrysene(CHR)	mg/kg	1	0.1	N.D.
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.
Conclusion				Conformity

Remark:

- As specified by client, the submitted samples were mixed to test, the test points: 1-2+1-3+1-4

Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity
Benzo[a]pyrene(BaP)	50-32-8	≤ 1	≤ 1	≤ 0.5
Benzo[e]pyrene(BeP)	192-97-2	/	≤ 1	≤ 0.5
Benzo[a]anthracene(BaA)	56-55-3	/	≤ 1	≤ 0.5
Benzo[b]fluoranthene(BbF)	205-99-2	/	≤ 1	≤ 0.5
Benzo[j]fluoranthene(BjFA)	205-82-3	/	≤ 1	≤ 0.5
Benzo[k]fluoranthene(BkF)	207-08-9	/	≤ 1	≤ 0.5
Chrysene(CHR)	218-01-9	/	≤ 1	≤ 0.5
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	≤ 1	≤ 0.5
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	≤ 10	/	/

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**Microwave heating resistance test****Test Result of microwave test**

Sample No.: MO2958、1-1、1-2

Test method: Refer BS EN 15284 :007

Microwave power out: 800 W

Short period: 90 s

Long period: 585 s

Number of tested sample: 2 pc(s)

Number of control sample: 1 pc(s)

Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
(1-1)- A	39.8°C	98.7°C
(1-1)- B	38.6°C	97.9°C
(1-2)- A	\	95.5°C
(1-2)- B	\	94.2°C

For all tested plastic articles:

No visible change of color was found on the tested samples after test.

No visible cracking, deformation was found on the tested samples after test.

No melting, charring was found on the tested samples after wash.

The tested samples still suitability to re-use after test.

For all tested ceramic articles:

No visible change of color was found on the tested samples after test.

No visible cracking, crazing, scaling was found on the tested samples after test.

**Mechanical dishwashing safe test****Test Result of mechanical dishwashing safe test:**

Requirements: For dishwasher safe test, if there is no noticeable change in appearance (e.g. color, size and shape) and function, it should be "PASS".

Sample No.: MO2958、1-1、1-2

Test method: Refer BS EN 12875 -1-2005

Washing temperature: 60°C

Number of cycle: 10 cycles

Number of tested sample: 2 pc(s).

Number of control sample: 1 pc(s).

For all tested plastic or metal articles:

No visible change of color, gloss and clouding was found on the tested samples after wash.

No visible deposit or iridescent layer was found on the tested samples after wash.

No visible swelling, deformation, cracking, crazing or delamination was found on the tested samples after wash.

For all tested ceramic or glass enamel articles:

No visible change of color and gloss was found on the tested samples after wash.

No visible deposit or iridescent layer was found on the tested samples after wash.

No cracking was found on the tested samples after wash.

No decoration was detached after wash.

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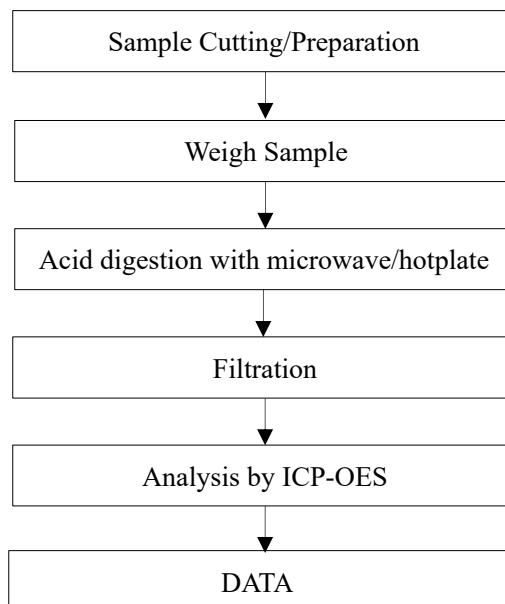
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**Regulation 1935/2004/EC, Council Directive 84/500/EEC****- Migration of Lead and Cadmium**

Test Methods and Equipment: EN 1388-1: 1995; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)			
				1-1			
				A			
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h;							
Soaking method: Internal soaking							
Lead	mg/L	4.0	0.1	N.D.			
Cadmium	mg/L	0.3	0.01	N.D.			
Conclusion				Conformity			

Remark: Results shown above are testing data of one group.

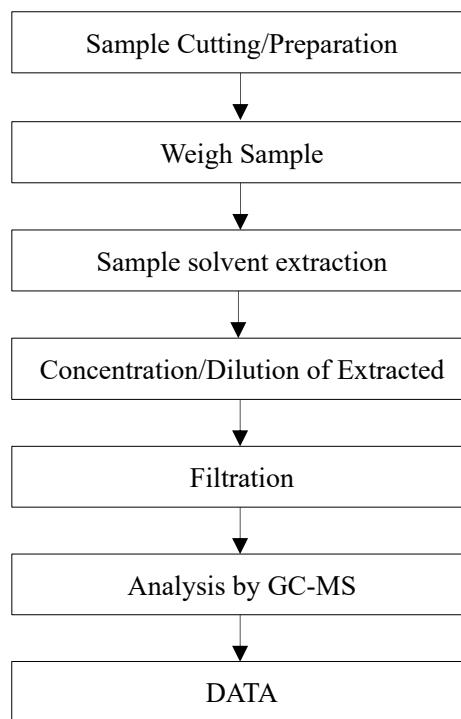
**Test Flow Chart of Heavy Metal Content**

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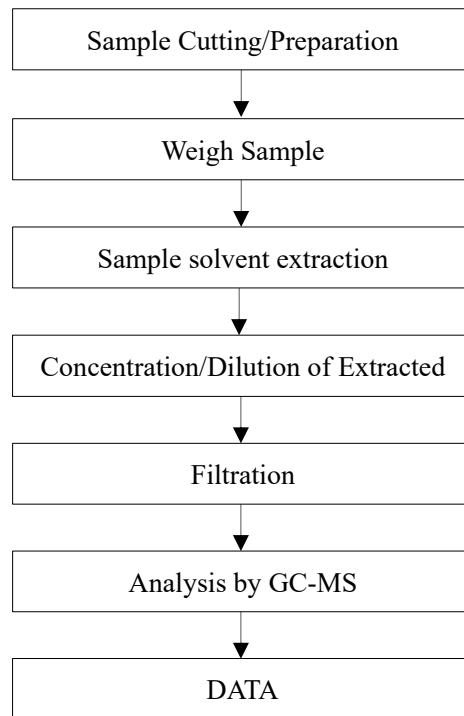
**Test Flow Chart of Phthalates**

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**Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)**

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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.
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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 of 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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Page 12 of 12