

# **Test Report**

Report No. : AGC05443250409-001S4

**SAMPLE NAME** : Soft touch ceramic mug

MODEL NAME : MO2719

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

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

**DATE OF ISSUE** : Jul. 09, 2025

Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.





Report No.: AGC05443250409-001S4
pplicant : MID OCEAN BRANDS B.V.

Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. Test Site : 5,6/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 : Soft touch ceramic mug

Model : MO2719
Vendor code : 119344
Country of Origin : CHINA
Country of Destination : EUROPE
Sample receiving state : Normal

Sample Received Date : Apr. 08, 2025 (Test point:1-1 to 1-12)

Jul. 02, 2025(Test point:1-13)

Testing Period : Apr. 08, 2025 to Jul. 09, 2025 (Test point:1-1 to 1-12)

Jul. 02, 2025 to Jul. 09, 2025(Test point:1-13)

Test Requested : Selected test(s) as requested by client.

Test Requested: Conclusion

Microwave heating resistance test Pass

Mechanical dishwashing safe test Pass

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

Regulation 1935/2004/EC, Council Directive 84/500/EEC

Migration of Load and Codmium

Pass

- Migration of Lead and Cadmium

DM-4B-COM-002-v01
- Extractable Lead and Cadmium
Pass

Approved by: Suhong bing

Suhongliang

Technical Director



## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 08, 2025	Invalid	Initial release
S1	May 12, 2025	Invalid	Modification of test point description
S2	Jul. 04, 2025	Invalid	Add test
S3	Jul. 08, 2025	Invalid	Modify test results
S4	Jul. 09, 2025	Valid	Modify test results



The photo of the sample











The photo of AGC05443250409-001S4 is for use only with the original report.

## **Test Point Description**

Test point	Test point description
1-1	Red coating
1-2	Red mug rim
1-3	Red inner mug
1-4	Red mug
1-5	Blue coating + yellow coating + orange coating



Test point	Test point description
1-6	Grey coating +dark green coating +pink coating
1-7	Blue mug rim
1-8	Yellow mug rim
1-9	Orange mug rim
1-10	Grey mug rim
1-11	Dark green mug rim
1-12	Pink mug rim
1-13	Pink mug



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

#### Microwave heating resistance test

# Test Result of microwave test

Sample No.: MO2719 1-4

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	28.1°C	78.9℃
2	28.9°C	79.8°C
3	°C	℃

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.: MO2719 1-4

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 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.



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"

Report No.: AGC05443250409-001S4

Sample No.:MO2719 1-13

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 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.

No color came-off was observed from the sample after each cycle

### 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)			
Test Item(s)			MIDL	1-1	1-5	1-6	
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.	
Con	Conformity	Conformity	Conformity				

#### Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-5,1-6

Remark: The samples of the following test points were resubmitted on April 24, 2025:1-1

#### 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

Tost Itam(s)	Unit	Limit	MDI	Test Result(s)			
Test Item(s)	Unit Limit		MDL	1-1	1-5	1-6	
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.	N.D.	
Cor	Conformity	Conformity	Conformity				

#### Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-5,1-6 Remark: The samples of the following test points were resubmitted on April 24, 2025:1-1



## 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 Items(s)	I Inde	Limit	MDL	Test Result(s)			
Test Item(s)	Unit		MDL	1-1	1-5	1-6	
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.	N.D.	N.D.	
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.	N.D.	N.D.	
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.	N.D.	N.D.	
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.	N.D.	N.D.	
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.	N.D.	N.D.	
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.	N.D.	N.D.	
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.	N.D.	N.D.	
Sum of DIBP +DBP+BBP+DEHP	%	0.1	/	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.	N.D.	N.D.	
Con	clusion			Conformity	Conformity	Conformity	

#### Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-5,1-6 Remark:The samples of the following test points were resubmitted on April 24, 2025:1-1

#### 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%



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

Toot Itom(s)	Unit	Limit	MDL	Test Result(s)			
Test Item(s)	Unit			1-1	1-5	1-6	
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Chrysene(CHR)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Con	Conformity	Conformity	Conformity				

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#### Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-5,1-6 Remark: The samples of the following test points were resubmitted on April 24, 2025:1-1

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

	<i>J J</i>	_	, , , , , , , , , , , , , , , , , , ,	8 6)
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	/	/



Regulation 1935/2004/EC, Council Directive 84/500/EEC

# - Migration of Lead and Cadmium

Test Methods and Equipment: EN 1388-1: 1996; ICP-OES

		T, MDI				Test Result(s)	
Test Item(s)	Unit	Limit	MDL	1-3			
				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.			
	Conclusi	Conformity					

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

#### **DM-4B-COM-002-v01**

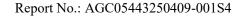
## - Extractable Lead and Cadmium

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

		Limit MDL		Test Result(s)			
Test Item(s)	Unit				1.	-2	
				A	В	С	D
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h;							
Soaking method: Lip							
Lead	mg	2.0	0.01	N.D.	N.D.	N.D.	N.D.
Cadmium	mg	0.2	0.001	N.D.	N.D.	N.D.	N.D.
Conclusion					Confo	ormity	

					Test Re	esult(s)		
Test Item(s)	Unit	Limit	MDL	1-7 A B C				
				A	В	С	D	
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h;								
Soaking method: Lip								
Lead	mg	2.0	0.01	N.D.	N.D.	N.D.	N.D.	
Cadmium	mg	0.2	0.001	N.D.	N.D.	N.D.	N.D.	
Conclusion					Confo	ormity		

					Test Re	esult(s)		
Test Item(s)	Unit	Limit	MDL					
				A	В	С	D	
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h;								
Soaking method: Lip								
Lead	mg	2.0	0.01	N.D.	N.D.	N.D.	N.D.	
Cadmium	mg	0.2	0.001	N.D.	N.D.	N.D.	N.D.	
Conclusion				Conformity				





Test Item(s)	Unit	Limit	MDL				
				A	В	С	D
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h; Soaking method: Lip							
Lead	mg	2.0	0.01	N.D.	N.D.	N.D.	N.D.
Cadmium	mg	0.2	0.001	N.D.	N.D.	N.D.	N.D.
Conclusion				Conformity			

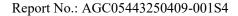
					Test Re	esult(s)		
Test Item(s)	Unit	Limit	MDL	1-10				
				A	В	С	D	
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h;								
Soaking method: Lip								
Lead	mg	2.0	0.01	N.D.	N.D.	N.D.	N.D.	
Cadmium	mg	0.2	0.001	N.D.	N.D.	N.D.	N.D.	
Conclusion				Conformity				

					Test Re	esult(s)		
Test Item(s)	Unit	Limit	MDL	1-11				
,				A	В	С	D	
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h;								
Soaking method: Lip	Soaking method: Lip							
Lead	mg	2.0	0.01	N.D.	N.D.	N.D.	N.D.	
Cadmium	mg	0.2	0.001	N.D.	N.D.	N.D.	N.D.	
Conclusion				Conformity				

					Test Re	esult(s)		
Test Item(s)	Unit	Limit	MDL	1-12 A B C				
				A	В	С	D	
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h;								
Soaking method: Lip								
Lead	mg	2.0	0.01	N.D.	N.D.	N.D.	N.D.	
Cadmium	mg	0.2	0.001	N.D.	N.D.	N.D.	N.D.	
Conclusion					Confo	rmity		

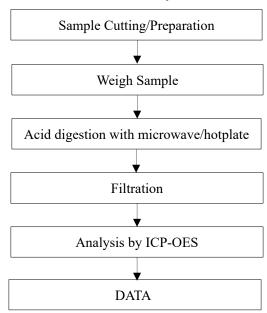
Remark: Results shown above are testing data of four groups.

Remark: The samples of the following test points were resubmitted on April 24, 2025:1-2

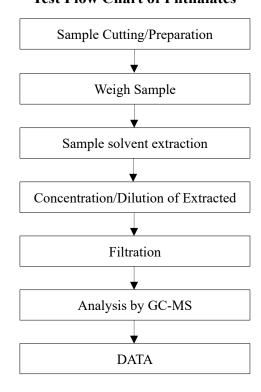


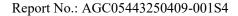


# **Test Flow Chart of Heavy Metal Content**



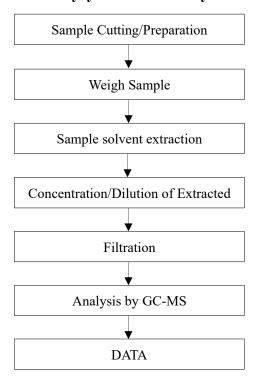
### **Test Flow Chart of Phthalates**







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





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- 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.
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\*\*\* End of Report \*\*\*