

## **Test Report**

Report No. : AGC05443250622-001S1

**SAMPLE NAME** : Mug mini plate filter in box

MODEL NAME : CX1443

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

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

**DATE OF ISSUE** : Jun. 16, 2025

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





Report No.: AGC05443250622-001S1

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 : 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 : Mug mini plate filter in box

Model : CX1443
Vendor code : 111025
Country of Origin : CHINA
Country of Destination : EUROPE
Sample receiving state : Normal

Sample Received Date : Jun. 10, 2025

Testing Period : Jun. 10, 2025 to Jun. 13, 2025

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

Approved by: Su hong hang

Suhongliang

**Technical Director** 



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

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43

- Aromatic Amines Azodyes (AZO) Content

Pass

Microwave heating resistance test

Pass

Mechanical dishwashing safe test

Pass

- Colour fastness to rubbing

Pass

Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2020)9

Pass

- Specific migration of Heavy metal

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

- Migration of Lead and Cadmium

Pass

DM-4B-COM-002-v01

- Leachable Lead & Cadmium

Pass



Report Revise Record

Report Version	Issued Date	Valid Version	Notes	
/	Jun. 13, 2025	Invalid	Initial release	
S1	Jun. 16, 2025	Valid	Modify Test point and Limit	



The photo of the sample





The photo of AGC05443250622-001S1 is for use only with the original report.

#### **Test Point Description**

Test point	Test point description
1-1	Transparent plastic box
1-2	Golden coating
1-3	White paper tag
1-4	Golden ribbon
1-5	Carton box
1-6	Metal chain
1-7	Metal buckle
1-8	Stainless steel tea filter
1-9	Pentagram plate
1-10	Ceramic cup



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.

#### 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)		
rest item(s)	Onit Limit	LIIIII	MIDL	1-1	1-2	1-3
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.
Con	Conformity	Conformity	Conformity			

Toot Itam(s)	Unit Limit		MDL	Test Result(s)		
Test Item(s)	Unit	Limit	MDL	1-4	1-5	1-6
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Tost Itam(s)	Unit Limit		MDL	Test Result(s)	
Test Item(s)	Unit	Lillit	MIDL	1-7	1-8
Lead(Pb)	mg/kg	500	10	N.D.	N.D.
Co	Conformity	Conformity			

#### 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 Itom(s)	Linit	Unit Limit	MDL	Test Result(s)	
Test Item(s)	Unit			1-1	1-2
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.
Co	Conformity	Conformity			



#### 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

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

#### 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

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

Report No.: AGC05443250622-001S1

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

	102 01 1 01 1 0 1 7 0 7 0		ydrocarbons (17111s) (On	8'8)
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	/	/



Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43

## - Aromatic Amines Azodyes (AZO) Content

Test Methods and Equipment: EN ISO 14362-1:2017; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
4-Aminobiphenyl CAS:92-67-1	mg/kg	30	5	N.D.
Benzidine CAS:92-87-5	mg/kg	30	5	N.D.
4-Chloro-o-toluidine CAS:95-69-2	mg/kg	30	5	N.D.
2-Naphthylamine CAS:91-59-8	mg/kg	30	5	N.D.
o-Aminoazotoluene CAS:97-56-3	mg/kg	30	5	N.D.
5-Nitro-o-toluidine CAS:99-55-8	mg/kg	30	5	N.D.
p-Chloroaniline CAS:106-47-8	mg/kg	30	5	N.D.
4-Methoxy-m-phenylenediamine CAS:615-05-4	mg/kg	30	5	N.D.
4,4'-Diaminodiphenylmethane CAS:101-77-9	mg/kg	30	5	N.D.
3,3'-Dichlorobenzidine CAS:91-94-1	mg/kg	30	5	N.D.
3,3'-Dimethoxybenzidine CAS:119-90-4	mg/kg	30	5	N.D.
3,3'-Dimethybenzidine CAS:119-93-7	mg/kg	30	5	N.D.
4,4'-Methylenedi-o-toluidine CAS:838-88-0	mg/kg	30	5	N.D.
p-Cresidine CAS:120-71-8	mg/kg	30	5	N.D.
4,4'-Methylenebis[2-chloroaniline] CAS:101-14-4	mg/kg	30	5	N.D.
4,4'-Oxydianiline CAS:101-80-4	mg/kg	30	5	N.D.
4,4'-Thiodianiline CAS:139-65-1	mg/kg	30	5	N.D.
2-Aminotoluene CAS:95-53-4	mg/kg	30	5	N.D.
2,4-Toluylendiamine CAS:95-80-7	mg/kg	30	5	N.D.
2,4,5-Trimethylaniline CAS:137-17-7	mg/kg	30	5	N.D.
o-Anisidine CAS:90-04-0	mg/kg	30	5	N.D.
4-Aminoazobenzene CAS:60-09-3	mg/kg	30	5	N.D.
CAS.00-07-3	Conformity			

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Note: 4-aminoazobenzene: The EN ISO 14362-1:2017 or ISO 17234-1:2020 methods will enable further cleavage of 4-aminoazobenzene to aniline and / or 1,4-phenylenediamine. If aniline and / or 1,4-phenylenediamine are detected, 4-aminoazobenzene shall be further determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.

#### Microwave heating resistance test

#### Test Sample:1-10

**Test Result of microwave test** 

Sample No.:CX1443、1-10

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	39.7°C	98.7°C
2	40.1°C	98.2℃

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 Sample: 1-6/1-7/1-8/1-9

#### **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.: CX1443 \, 1-6/1-7/1-8/1-9

Test method: Refer BS EN 12875 -1-2005/ BS EN 12875 -2-2002 /BS EN 12875 -4-2006/ BS EN 12875 -5-2006

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.



#### Test Sample:1-10

#### 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.: CX1443 \, 1-10

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.

#### - Colour fastness to rubbing

**Test Method:** ISO 105-X12:2016

Rubbing finger: Cylinder

The time of conditioning as well as the atmospheric conditions during testing: 20.1 °C, 64%R.H., 4 hrs

The percentage of soak of wet rubbing cloth: 95%~100% The long direction of the specimen: Endwise/ Crossrange

1	Test l	Result		
Test point	Colour fastness to rubbing / (Grade)  Dry rubbing Wet rubbing	Conclusion		
	Dry rubbing	Wet rubbing		
1-4	4-5	4-5	Conformity	
Limit (Client's Requirement)	≥2-3	≥2-3	/	

#### Note:

Colour Fastness Grade:

Grade 5 = No Colour Change (Best Grade)

Grade 1 = Colour Change Seriously (Bad Grade)

9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.



# Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2020)9

#### - Specific migration of Heavy metal

Test Method: EDQM (2024)

Test Method: EDQM (2024)								
Item(s)	Unit	Limit		MDL	Test result(s)			
nem(s)	Ollit	1 <sup>st</sup> +2 <sup>nd</sup> migration 3 <sup>rd</sup> migration		MDL	1 <sup>st</sup> +2 <sup>nd</sup> migration	3 <sup>rd</sup> migration		
Simulant Used: 0.5% Citric acid					1 12 Illigration	3 migration		
Barium (Ba)	mg/kg	8.4	1.2	0.1	N.D.	N.D.		
Copper (Cu)	mg/kg	28	4	0.1	N.D.	N.D.		
Iron (Fe)	mg/kg	280	40	0.1	0.726	N.D.		
		700						
Tin (Sn)	mg/kg	700	100	0.1	N.D.	N.D.		
Chromium (Cr)	mg/kg	,		0.01	N.D.	N.D.		
Manganese (Mn)	mg/kg	3.85	0.55	0.1	N.D.	N.D.		
Zinc (Zn)	mg/kg	35	5	0.1	N.D.	N.D.		
Aluminium (Al)	mg/kg	35	5	0.1	N.D.	N.D.		
Lithium (Li)	mg/kg	0.336	0.048	0.01	N.D.	N.D.		
Beryllium (Be)	mg/kg	0.07	0.01	0.005	N.D.	N.D.		
Vanadium (V)	mg/kg	0.07	0.01	0.005	N.D.	N.D.		
Nickel (Ni)	mg/kg	0.98	0.14	0.01	N.D.	N.D.		
Cobalt (Co)	mg/kg	0.14	0.02	0.01	N.D.	N.D.		
Arsenic (As)	mg/kg	0.014	0.002	0.002	N.D.	N.D.		
Molybdenum (Mo)	mg/kg	0.84	0.12	0.01	N.D.	N.D.		
Silver (Ag)	mg/kg	0.56	0.08	0.01	N.D.	N.D.		
Cadmium (Cd)	mg/kg	0.035	0.005	0.002	N.D.	N.D.		
Antimony (Sb)	mg/kg	0.28	0.04	0.01	N.D.	N.D.		
Mercury (Hg)	mg/kg	0.021	0.003	0.002	N.D.	N.D.		
Thallium (Tl)	mg/kg	0.007	0.001	0.001	N.D.	N.D.		
Lead (Pb)	mg/kg	0.07	0.01	0.01	N.D.	N.D.		
Zirconium (Zr)	mg/kg	14	2	0.01	N.D.	N.D.		
Magnesium (Mg)	mg/kg	/	/	0.01	N.D.	N.D.		
Titanium (Ti)	mg/kg	/	/	0.01	N.D.	N.D.		
			Conformity	Conformity				

#### Note:

Results from all three migration are to be considered for compliance: Result of  $3^{rd}$  migration shall not exceed the SRL and Sum of result of  $1^{st}$  and  $2^{nd}$  migration shall not exceed 7 times of SRL.



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 Re	esult(s)	D	
Test Item(s)	Unit	Limit	MDL	1-9				
				A	В	С	D	
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h;								
Soaking method: Internal soaking								
Lead	mg/dm <sup>2</sup>	0.8	0.1	N.D.	N.D.	N.D.	N.D.	
Cadmium	mg/dm <sup>2</sup>	0.07	0.01	N.D.	N.D.	N.D.	N.D.	
Conclusion				Conformity				

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

Test Item(s)	Unit	Limit	MDL	Test Result(s) 1-10				
				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						

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

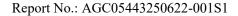
#### **DM-4B-COM-002-v01**

#### - Leachable Lead & Cadmium

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

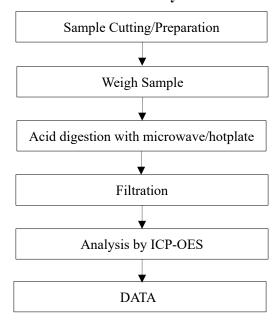
				Test Result(s)				
Test Item(s)	Unit	Limit	MDL	1-10		10		
				A	В	С	D	
Simulant Used: 4% Acetic acid; Test Condition: 22°C, 24h;								
Soaking method: Lip & Rim								
Lead	mg	2.0	0.01	0.011	0.011	0.010	0.011	
Cadmium	mg	0.2	0.001	N.D.	N.D.	N.D.	N.D.	
Conclusion					Confo	ormity		

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

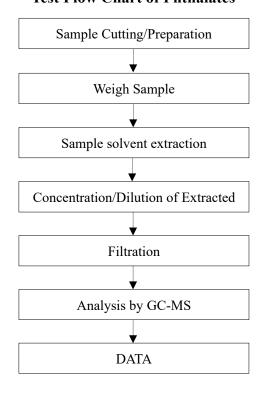


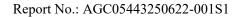


## **Test Flow Chart of Heavy Metal Content**



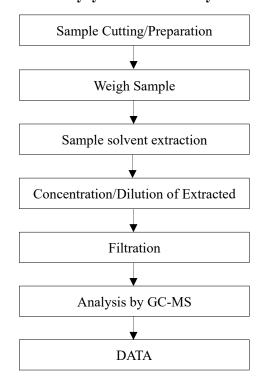
#### **Test Flow Chart of Phthalates**

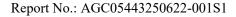






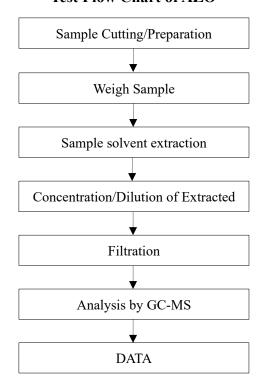
## **Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)**







#### **Test Flow Chart of AZO**





## Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
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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 of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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