
Test Report

Report No. : AGC05443220534-001

SAMPLE NAME : Borosilicate glass mug
MODEL NAME : CX1523, CX1524
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to the following page(s).
**DATE OF
ISSUE** : May 27, 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 : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

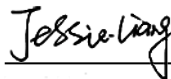
Report on the submitted sample(s) said to be:

Sample Name : Borosilicate glass mug
Model : CX1523, CX1524
Country of origin : CHINA
Country of destination : EUROPE
Vendor code : 111025
Sample Received Date : May 20, 2022
Testing Period : May 20, 2022 to May 27, 2022

Approved by: 

Qinlianzi, Reed

Laboratory Supervisor

Approved by: 

Liangdan, Jessie.Liang

Technical Director

Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 27, 2022	Valid	Initial release

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Test Requested:
Conclusion

1. As specified by client, to determine the Polycyclic-aromatic hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
2. 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
3. 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
4. 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
5. As specified by client, to determine the Formaldehyde Release in the submitted sample(s).	Pass
6. As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Regulation(EU) No 10/2011 for: -Pentachlorophenol (PCP) Content	Pass
-Specific Migration of Formaldehyde	Pass
7. As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5, Regulation(EU) No 10/2011&(EU)2018/213 for silicone: - Overall Migration (3% Acetic acid, 50% ethanol)	Pass
- Specific migration of Bisphenol A(BPA)	Pass
- Bisphenol A(BPA) content	Pass
8. As specified by client, to test sample with reference to DM-4B-COM-003-v01, French Act 2012-1442. -Peroxide value	Pass
-Volatile Organic Matter	Pass
-Specific Migration of Organotin (measured as Tin)	Pass
9. As specified by client, to determine the Leachable Lead and Cadmium content in ceramic Ware with reference to Regulation 1935/2004/EC, NO.84/500/EEC and 2005/31/EC.	Pass
10. As specified by client, to determined for mechanical dishwashing safe test.	/
11. As specified by client, to determined for microwave test.	/

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Test Result:
1. Test Result of Polycyclic-aromatic hydrocarbons (PAHs)Content

Test Item	Test Method/ Instrument	MDL	Limit
Benzo[a]pyrene (BaP) (CAS No.: 50-32-8)	AfPS GS 2019:01 PAK/ GC-MS	0.1mg/kg	Rubber or plastic components: Single≤1mg/kg
Benzo[e]pyrene(BeP) (CAS No.: 192-97-2)		0.1mg/kg	
Benzo[a]anthracene (BaA) (CAS No.: 56-55-3)		0.1mg/kg	
Benzo[b]fluoranthene (BbF) (CAS No.: 205-99-2)		0.1mg/kg	
Benzo[j]fluoranthene(BjFA) (CAS No.: 205-82-3)		0.1mg/kg	
Benzo[k]fluoranthene (BkF) (CAS No.: 207-08-9)		0.1mg/kg	
Chrysene (CHR) (CAS No.: 218-01-9)		0.1mg/kg	
Dibenzo[a,h]anthracene (DBA) (CAS No.: 53-70-3)		0.1mg/kg	

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

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2. 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%	Sum<0.1%
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		0.010%	
Di-isononyl 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)	
1-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity

3. 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)	
1-2	N.D.	Conformity

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4. 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

5. Test result of Formaldehyde Release

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

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

Note:

mg/kg =milligram per kilogram
MDL = Method Detection Limit

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

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6.1 Test Result(s) of Total Pentachlorophenol (PCP) content

Unit: mg/kg

Test Item	Test Method/ Equipment	MDL	Test Result(s)	Limit
			1-1	
Pentachlorophenol (PCP)	EN ISO 15320-2011 GC-MS	0.05	N.D.	0.15
Conclusion	/	/	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

6.2 Special Migration of Formaldehyde

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			1-1			
			1 st extractives	2 nd extractives	3 rd extractives	
Special Migration of Formaldehyde	3% Acetic acid 70°C, 2h/ UV-Vis	5	N.D.	N.D.	N.D.	15
Conclusion	/	/	Conformity			/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

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7.1 Test Result(s) of Overall Migration

Unit: mg/dm²

Test Solution	Test condition	MDL	Test Result(s)	Limit
			1-2	
3% Acetic acid	70°C, 2h	5	N.D.	8
50% Ethanol		5	N.D.	8
Conclusion	/	/	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

7.2 Test result of Specific migration of Bisphenol A(BPA)

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit (Client's Requirement)
			1-2	
Specific migration of Bisphenol A(BPA)	3% Acetic acid 70°C, 2h / LC-MS-MS	0.02	N.D.	0.05
Conclusion	/	/	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

7.3 Test Result(s) of Bisphenol A(BPA) content

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)	Limit (Client's Requirement)
			1-2	
Bisphenol A(BPA) content	EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS	1	N.D.	Absent
Conclusion	/	/	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

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8.1 Test Result(s) of Peroxide value

Unit: %

Test Item	MDL	Result(s)	Limit
		1-2	
Peroxide value	0.2	Absent	Absent
Conclusion	/	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

8.2 Test result of Volatile Organic Matter

Unit: %,w/w

Test item(s)	Test Condition	MDL	Result(s)	Limit
			1-2	
Volatile Organic Matter	200°C, 4h	0.1	0.44	0.5
Conclusion		/	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)
-0.1%,w/w =1000mg/kg

8.3 Test result of Specific Migration of Organotin (measured as Tin)

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1-2	
Specific Migration of Organotin (measured as Tin)	3% Acetic acid 70°C, 2h / ICP-OES	0.01	N.D.	0.1
Conclusion	/	/	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

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9. Test Result(s) of Leachable Lead and Cadmium (NO.84/500/EEC and 2005/31/EC)

Unit: mg/L

Test Item(s)	Test Condition/ Equipment	MDL	Result(s)		Limit
			4% Acetic acid		
			1-3	1-4	
Lead (Pb)	EN 1388-2:1996 22°C, 24h/ ICP-OES	0.1	N.D.	N.D.	4.0
Cadmium (Cd)		0.01	N.D.	N.D.	0.3
Conclusion		/	Conformity	Conformity	/

Note: -MDL=method detection limit
-N.D.=not detected (less than method detection limit)

10. Test Result of mechanical dishwashing safe test:

Sample: Borosilicate glass mug

Test method: BS EN 12875-1:2005

Washing temperature: 60°C

Number of cycle: Ten (10) cycles

Number of tested sample: 1(One) pc(s).

Number of control sample: 1(One) pc(s).

For all tested glass articles:

- 1) No visible change of color and gloss was found on the tested samples after wash.
- 2) No visible deposit or iridescent layer was found on the tested samples after wash.
- 3) No cloud texture was found on the tested samples after wash.
- 4) No decoration was detached after wash.

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11. Test Result of microwave test:

Sample: Borosilicate glass mug

Test method: BS EN 15284-2007

Microwave power out: 533W

Short period: 135 s

Long period: 878 s

Number of tested sample: 3(Three) pc(s).

Number of control sample: 1(One) pc(s).

Specimen(s)	Maximum handle temperature after short period of heating	Maximum surface temperature after long period of heating
1	36.5℃	97.3℃
2	38.1℃	95.8℃
3	37.4℃	96.5℃

For all tested glass, glass-ceramic articles:

- 1) No visible change of color was found on the tested samples after test.
- 2) No visible cracking, crazing, scaling was found on the tested samples after test.

Test Point Description

Test point	Test point description
1	Borosilicate glass mug
1-1	bamboo lid
1-2	silicone sealing
1-3	glass with stars
1-4	Glass with tree pattern

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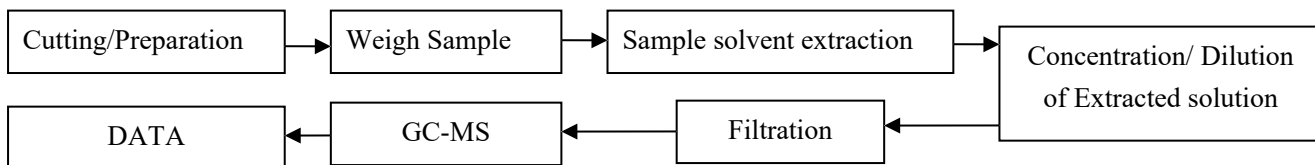
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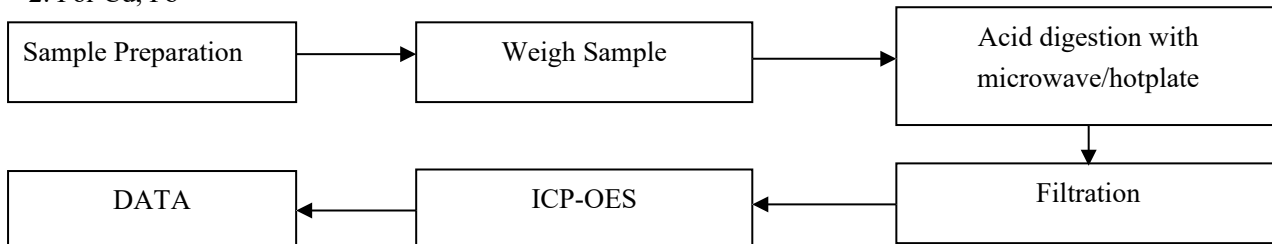
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Test Flow Chart

1. For Phthalates, PAHS



2. For Cd, Pb



The photo of the sample



AGC05443220534-001

AGC authenticate the photo only on original report

*** End of Report ***

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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”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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.

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