Test Report

Report No. :	AGC05443250434-001

SAMPLE NAME	:	CX1523 Double wall borosilicate mug CX1524 Double wall borosilicate mug
MODEL NAME	:	CX1523 CX1524
APPLICANT	:	MID OCEAN BRANDS B.V.
STANDARD(S)	:	Please refer to the following page(s).
DATE OF ISSUE	:	May 14, 2025

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

Applicant	:	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	:	CX1523 Double wall borosilicate mug CX1524 Double wall borosilicate mug
Model	:	CX1523 CX1524
Vendor code	:	114276
Country of Origin	:	CHINA
Country of Destination	:	EUROPE
Sample receiving state	:	Normal
Sample Received Date	:	Apr. 25, 2025
Testing Period	:	Apr. 25, 2025 to May 14, 2025
Test Requested	:	Selected test(s) as requested by client.

Approved by:

Suhongliang, Leon

Technical Director

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	Pass
Regulation 1935/2004/EC, Council Directive 84/500/EEC - Migration of Lead and Cadmium	Pass
German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2002)2 - Specific migration of Formaldehyde	Pass
German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2002)2 - Pentachlorophenol(PCP) content	Pass
German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5 and Regulation (EU) 2024/3190 - Bisphenol A (BPA) content	Pass
German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5 - Volatile Organic Components (VOC) content	Pass
German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5 - Peroxides	Pass
German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5 - Overall Migration	Pass
German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5 - Specific migration of Bisphenol A (BPA)	Pass
DM-4B-COM-003-v01 for: - Specific Migration of Organotin (measured as Tin)	Pass

Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 14, 2025	Valid	Initial release

The photo of the sample

The photo of AGC05443250434-001 is for use only with the original report.

Test Point Description

Test point	Test point description
1-1	Star glass mug
1-2	Bamboo lid
1-3	White silicone sealing

Test Results:

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.: CX1523 CX1524 1-1
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℃	89.1℃
2	38.7℃	89.7℃

For all tested glass, glass-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.: CX1523 CX1524 1-1
Test method: Refer BS EN 12875 -1-2005
Washing temperature: 60℃
Number of cycle: 10 cycles
Number of tested sample: 2 pc(s).
Number of control sample: 1 pc(s).

For all tested glass 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 cloud texture was found on the tested samples after wash.
No decoration was detached after wash.

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
Lead(Pb)	mg/kg	500	10	N.D.	N.D.
Conclusion				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

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

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-3
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-isononyl 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

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

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-3
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

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	/	/

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

- Migration of Lead and Cadmium

Test Methods and Equipment: EN 1388-2: 1995; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-1
				A
Simulant Used: 4% Acetic acid; Test Condition: 22℃, 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 groups.

German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2002)2

- Specific migration of Formaldehyde

Test Methods and Equipment: EN 13130-1:2004; UV-Vis

Simulant Used	Test Condition	Unit	Limit	MDL	Test result(s)		
					1-2		
					1st migration	2nd migration	3rd migration
3% Acetic acid	70℃, 2h	mg/kg	15	5	N.D.	N.D.	N.D.
Conclusion					Conformity		

German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2002)2

- Pentachlorophenol(PCP) content

Test Methods and Equipment: ENISO15320-2011; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-2
Pentachlorophenol(PCP)	mg/kg	0.15	0.05	N.D.
Conclusion				Conformity

German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5 and Regulation (EU) 2024/3190

- Bisphenol A (BPA) content

Test Methods and Equipment: EPA 3540C:1996 & EPA 8321B:2007; LC-MS-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-3
Bisphenol A (BPA)	mg/kg	Prohibition	0.01	N.D.
Conclusion				Conformity

German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5

- Volatile Organic Components (VOC) content

Test Methods: LFGB BfR Part II section XV, May 2003 and LFGB section 35 B80.30 1(EG)

Temperature and Time: Bake at 100℃ for 1h and then at 200℃ for 4h

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-3
Volatile Organic Components	%	0.5	0.1	0.43
Conclusion				Conformity

German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5

- Peroxides

Test Methods: European Pharmacopoeia 9.0 Method 2.5.5

Test Item(s)	Unit	Limit	MDL	Test Result(s)
				1-3
Peroxides	%	Absent	0.2	N.D.
Conclusion				Conformity

German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5

- Overall Migration

Test Method: EN 1186-3:2022

Simulant Used	Test Condition	Unit	Limit	MDL	Test result(s)
					1-3
					3rd migration
3% Acetic acid	70℃，2h	mg/dm^2	10	5	N.D.
50% Ethanol	70℃，2h	mg/dm^2	10	5	N.D.
Conclusion					Conformity

German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), Section 30 and BfR Recommendations, Regulation 1935/2004/EC, Council of Europe Resolution AP (2004)5

- Specific migration of Bisphenol A (BPA)

Test Methods and Equipment: CEN/TS13130-13:2005; LC-MS-MS

Simulant Used	Test Condition	Unit	Limit	MDL	Test result(s)
					1-3
					3rd migration
3% Acetic acid	70℃，2h	mg/kg	0.05	0.02	N.D.
Conclusion					Conformity

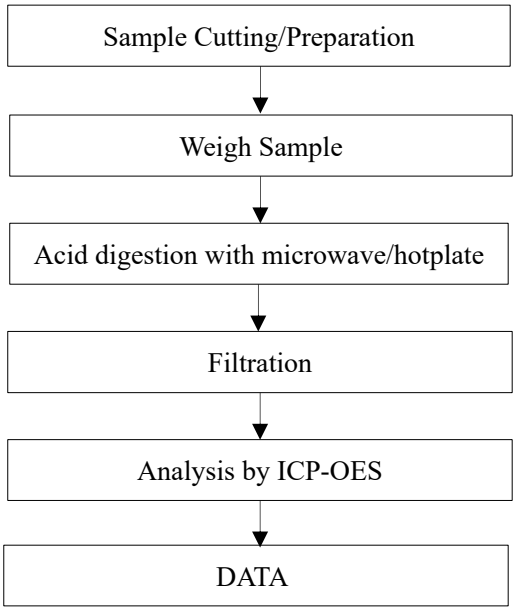
DM-4B-COM-003-v01 for:

- Specific Migration of Organotin (measured as Tin)

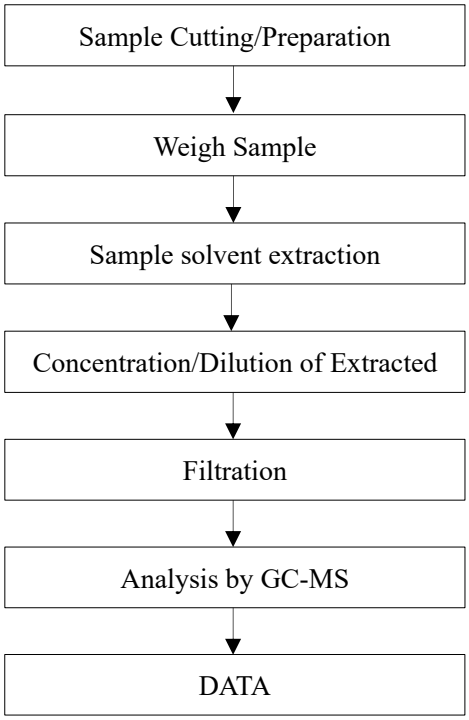
Test Methods and Equipment: EN 13130-1:2004; ICP-OES

Simulant Used	Test Condition	Unit	Limit	MDL	Test result(s)
					1-3
3% Acetic acid	70℃，2h	mg/kg	0.1	0.01	N.D.
Conclusion					Conformity

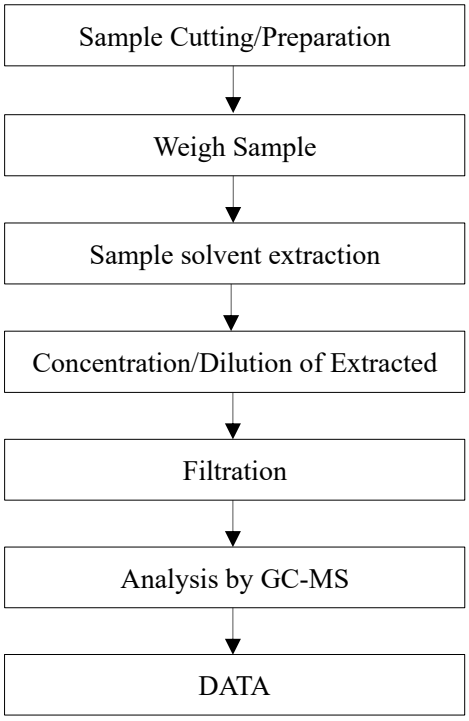
Test Flow Chart of Heavy Metal Content



Test Flow Chart of Phthalates



Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



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").
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.

*** End of Report ***

TEST REPORT

Applicant: MID OCEAN BRANDS B.V.
UNIT 711-716 7/F TOWER A
83 KING LAM STREET
CHEUNG SHA WAN KOWLOON
HONG KONG

Attn: DEREK HUI/EMMA LAM

Number: HKGH03262843 S1

Date: Jul 18, 2025

Sample and Information provided by customer	:	
Item Name	:	**CX1523 Double wall borosilicate mug** **CX1524 Double wall borosilicate mug**
Item No.	:	**CX1523, CX1524**
Quantity	:	10 pieces per style
Vendor	:	114276
Country of Origin	:	China
Date sample received	:	Jul 08, 2025
Test Period	:	Jul 08, 2025 to Jul 16, 2025

****

For and on behalf of :
Intertek Testing Services HK Ltd.

Dorothy M.Y. Lau
Vice President

Intertek Testing Services Hong Kong Limited
2/F Garment Centre
576 Castle Peak Road
Kowloon, Hong Kong
Tel +852 2173 8888
Fax +852 2786 1903
intertek.com.hk

TEST REPORT

Number : HKGH03262843 S1

Conclusion:
The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

	Requirement	Result
(1)	BS EN 1183 : 1997 Materials and articles in contact with foodstuffs - Test methods for thermal shock and thermal shock endurance	See details enclosed

****

Decision Rule(s):
When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. https://intertekhk.grd.by/decision-rule-doc..
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.

****

Note : This is to supersede Report No. HKGH03262843 dated Jul 17, 2025 due to Amending sample description

****

Intertek Testing Services Hong Kong Limited
2/F Garment Centre
576 Castle Peak Road
Kowloon, Hong Kong
Tel +852 2173 8888
Fax +852 2786 1903
intertek.com.hk

TEST REPORT

Number : HKGH03262843 S1

(1) Thermal Shock Test

Test Standard : BS EN 1183 : 1997 - Materials and articles in contact with foodstuffs - Test methods for thermal shock and thermal shock endurance

Test procedure :
1. Test method B as specified in the standard was adopted for the test.
2. The sample was initially heated in an oven set to 60°C for 1 hour.
3. It was then transferred to cold water at 20°C and immersed for a period of approximately 1 minute.
4. The above steps were repeated except that the temperature of the oven was increased by:
   - 10°C for temperature difference ≤ 100°C
   - 20°C for temperature difference > 100°C
5. The test completed when failure occurred on all tested specimens.
6. The cumulative failure in % and the standard deviation was determined.

Number of samples tested : Ten (10) pieces (CX1523 Star style glass)

Result :
The temperature difference (Δt_{50}) at which 50% of the tested samples failed and its standard deviation :

Δt_{50} (°C)	Standard deviation (°C)
165	19.0

Test Data:

Temperature in oven (°C)	Temperature difference (°C)	Number of failure	Cumulative failure in %
60	40	0	0
70	50	0	0
80	60	0	0
90	70	0	0
100	80	0	0
110	90	0	0
120	100	0	0
140	120	0	0
160	140	1	10
180	160	3	40
200	180	4	80
220	200	2	100

Date sample received : Jul 08, 2025
Test Period : Jul 08, 2025 to Jul 16, 2025

Intertek Testing Services Hong Kong Limited
2/F Garment Centre
576 Castle Peak Road
Kowloon, Hong Kong
Tel +852 2173 8888
Fax +852 2786 1903
intertek.com.hk

TEST REPORT

Number : HKGH03262843 S1

****

End of report

Intertek Testing Services Hong Kong Limited
2/F Garment Centre
576 Castle Peak Road
Kowloon, Hong Kong
Tel +852 2173 8888
Fax +852 2786 1903
intertek.com.hk