



TEST REPORT

Report No.: CCI260801247EN

Report Date: Oct. 14, 2026

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Applicant : Mid Ocean Brands B.V.

Address : Unit 711-716, 7/F., Tower A, 83 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

(The following sample(s) was (were) submitted and identified by client as)

Sample Name : Enamel drinking mug

Model/Item No. : MO9756

Vendor Code : 107978

First Test Period : From Aug. 26, 2026 to Sep. 18, 2026

Second Test Period : From Sep. 28, 2026 to Oct. 08, 2026

Last Test Period : From Oct. 09, 2026 to Oct. 13, 2026

Tests Conducted : As requested by the applicant, for details refer to next page(s).

Signed for and on behalf of
Compliance Control Institute (Guangzhou) Co., Ltd.

Approved by:

Pascal SHI/Technical Director

Compliance Control Institute (Guangzhou) Co., Ltd.

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Executive Summary:

No.	TESTED SAMPLES	STANDARD / REQUIREMENT	CONCLUSION
1	Tested material(s) of submitted sample(s)	Entry 63 of Annex XVII to the REACH Regulation (EC) No.1907/2006 - Lead (Pb)	PASS
2	Tested material(s) of submitted sample(s)	European Council Directive 84/500/EEC and its amendment Commission Directive 2005/31/EC for enameled articles intended to come into contact with foodstuffs - Migration Lead and Cadmium	PASS
3	Tested material(s) of submitted sample(s)	French Décret n°2007-766 du 10 mai 2007 and DGCCRFF Iche MCDA n°2 (V01 – 01/05/2016) on enameled article - Migration of Lead and Cadmium	PASS
4	Tested material(s) of submitted sample(s)	Regulation (EU) No 1935/2004 and Technical guide on Metals and alloys used in food contact materials and articles (2nd edition), supplementing Council of Europe Resolution CM/Res (2020)9 - Specific migration of heavy metals	PASS
5	Submitted sample(s)	Dishwasher safe test for complying with the requirements stated in the Clause 5.4 of PAS 54:2003	PASS



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TESTS CONDUCTED:

1. Lead (Pb)

Test Method: With reference to EPA 3052:1996, EPA 3050B:1996, the analysis was performed by Atomic Absorption Spectroscopy (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Material No.	Limit (mg/kg)	RL (mg/kg)	Test Result (mg/kg)	Conclusion
1	500	2	N.D.	PASS
3	500	2	N.D.	PASS
5	500	2	N.D.	PASS
6	500	2	N.D.	PASS
7	500	2	N.D.	PASS
8	500	2	N.D.	PASS

Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

2. Migration Lead and Cadmium

Test Method: With reference to 84/500/EEC & 2005/31/EC, the analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Condition: 4% Acetic acid, 22°C, 24h

Category 2

Test Item	Depth(mm)	Volume (mL)	Test Result (mg/L)	Conclusion
			2	
Lead (Pb)	76	352	< 0.1	PASS
Cadmium (Cd)	76	352	< 0.01	PASS



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Limit:

Category		Limit	
		Lead (Pb)	Cadmium (Cd)
Category 1	Articles that cannot be filled and articles that can be filled the internal depth of which does not exceed 25mm	0.8mg/dm ²	0.07mg/dm ²
Category 2	Articles, not in categories 1 or 3, which can be filled	4.0mg/L	0.3mg/L
Category 3	Cooking ware, packaging and storage vessels having a capacity of more than three liters	1.5mg/L	0.1mg/L

Note:

1. mg/L = Milligram per liter.
2. mg/dm² = Milligram per square decimetre.
3. < = Less than.

3. Migration of Lead, Cadmium

Test Method: With reference to DGCCRF Fiche MCDA n°2 (V01 – 01/05/2016), and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Test Condition: 4% Acetic acid, 22°C, 24h

Volume of test solution used: 181 mL

Product category: Oral contact

Test Item	Unit	Result				
		3	13	14	15	16
Lead (Pb)	mg/article	< 1	< 1	< 1	< 1	< 1
Cadmium (Cd)	mg/article	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Test Condition: 4% Acetic acid, 22°C, 24h

Volume of test solution used: 352 mL

Product category: Category 2

Test Item	Unit	Result
		2
Lead (Pb)	mg/l	< 1
Cadmium (Cd)	mg/l	< 0.1



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Limit

	Specific migration limit	
	Pb	Cd
Category 1: Articles which cannot be filled and articles which can be filled, the internal depth of which, measured from the lowest point to the horizontal plane passing through the upper rim, does not exceed 25 mm.	0.8 mg/dm ²	0.07 mg/dm ²
Category 2: articles that can be filled other than those covered by Categories 1 and 3	4.0 mg/l	0.3 mg/l
Category 3*: cooking ware, packaging and storage vessels with a capacity more than 3 liters	1.5 mg/l	0.1 mg/l
Oral contact (for all articles with 20mm of external decoration measured from the outer edge).	2 mg/article	0.2 mg/article



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4. Specific migration of heavy metal

Test Method: With reference to the Chapter 3 of the Technical guide on Metals and alloys used in food contact materials and articles (2nd edition), the analysis was performed by Atomic Absorption Spectrophotometer (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) or Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Test Condition: 5 g/L Citric acid, 70°C, 2h, 3 times release tests

Test Item	RL (mg/kg)	Limit (mg/kg)		Test Result (mg/kg)		Conclusion
				1		
		Migration of 1 st +2 nd	Migration of 3 rd	Migration of 1 st +2 nd	Migration of 3 rd	
Aluminum (Al)	0.2	35	5	N.D.	N.D.	PASS
Antimony (Sb)	0.02	0.28	0.04	N.D.	N.D.	PASS
Chromium (Cr)	0.1	7	1	N.D.	N.D.	PASS
Cobalt (Co)	0.01	0.14	0.02	N.D.	N.D.	PASS
Copper (Cu)	0.2	28	4	N.D.	N.D.	PASS
Iron (Fe)	0.5	280	40	N.D.	N.D.	PASS
Magnesium (Mg)	1.0	--	--	N.D.	N.D.	PASS
Manganese (Mn)	0.2	3.85	0.55	N.D.	N.D.	PASS
Molybdenum (Mo)	0.02	0.84	0.12	N.D.	N.D.	PASS
Nickel (Ni)	0.02	0.98	0.14	N.D.	N.D.	PASS
Silver (Ag)	0.02	0.56	0.08	N.D.	N.D.	PASS
Tin (Sn)	1.0	700	100	N.D.	N.D.	PASS
Ti(Titanium)	0.01	--	--	N.D.	N.D.	PASS
Vanadium (V)	0.005	0.07	0.01	N.D.	N.D.	PASS
Zinc (Zn)	1.0	35	5	N.D.	N.D.	PASS
Zirconium (Zr)	1.0	14	2	N.D.	N.D.	PASS
Arsenic (As)	0.001	0.014	0.002	N.D.	N.D.	PASS
Barium (Ba)	0.2	8.4	1.2	N.D.	N.D.	PASS
Beryllium (Be)	0.005	0.07	0.01	N.D.	N.D.	PASS
Cadmium (Cd)	0.002	0.035	0.005	N.D.	N.D.	PASS
Lead (Pb)	0.002	0.070	0.010	N.D.	N.D.	PASS
Lithium (Li)	0.01	0.336	0.048	N.D.	N.D.	PASS
Mercury (Hg)	0.002	0.021	0.003	N.D.	N.D.	PASS
Thallium (Tl)	0.001	0.007	0.001	N.D.	N.D.	PASS



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Note:

1. mg/kg = Milligram per kilogram.
2. N.D. = Not Detected (< RL).
3. RL = Reporting Limit.

5. Dishwasher safe test

Test Method: With reference to EN12875-1:2005

Number of cycles: 10

Material No.	4											
Triplicate	A	B	C	A	B	C	A	B	C	A	B	C
Inspection criteria	Color*			Gloss			Clouding			Resistant deposits and iridescent layers [#]		
Inspector 1	0	0	0	0	0	0	0	0	0	0	0	0
Inspector 2	0	0	0	0	0	0	0	0	0	0	0	0
Average Value	0			0			0			0		

Number of cycles: 10

Material No.	9											
Triplicate	A	B	C	A	B	C	A	B	C	A	B	C
Inspection criteria	Color*			Gloss			Clouding			Resistant deposits and iridescent layers [#]		
Inspector 1	0	0	0	0	0	0	0	0	0	0	0	0
Inspector 2	0	0	0	0	0	0	0	0	0	0	0	0
Average Value	0			0			0			0		

Number of cycles: 10

Material No.	10											
Triplicate	A	B	C	A	B	C	A	B	C	A	B	C
Inspection criteria	Color*			Gloss			Clouding			Resistant deposits and iridescent layers [#]		
Inspector 1	0	0	0	0	0	0	0	0	0	0	0	0
Inspector 2	0	0	0	0	0	0	0	0	0	0	0	0
Average Value	0			0			0			0		



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Number of cycles: 10

Material No.	11											
Triplicate	A	B	C	A	B	C	A	B	C	A	B	C
Inspection criteria	Color*			Gloss			Clouding			Resistant deposits and iridescent layers [#]		
Inspector 1	0	0	0	0	0	0	0	0	0	0	0	0
Inspector 2	0	0	0	0	0	0	0	0	0	0	0	0
Average Value	0			0			0			0		

Number of cycles: 10

Material No.	12											
Triplicate	A	B	C	A	B	C	A	B	C	A	B	C
Inspection criteria	Color*			Gloss			Clouding			Resistant deposits and iridescent layers [#]		
Inspector 1	0	0	0	0	0	0	0	0	0	0	0	0
Inspector 2	0	0	0	0	0	0	0	0	0	0	0	0
Average Value	0			0			0			0		

Remark:

- 1, * = If several colors are present on one article to be inspected, the color with the greatest change shall be chosen.
- 2, # = For the elimination of easily removable deposits.

Evaluation of inspection criteria:

Classification	Rating
0	No visible change
1	First discernible change
2	Clearly visible change

Note:

- 1, Sample photos are for reference only. Actual colors of the photos may vary due to lighting and output process.
 - 2, Requirements quoted from the Clause 5.4 of the Publicly Available Specification PAS 54: 2003
- Articles that are designated "dishwasher resistant", "dishwasher proof", "dishwasher safe" or any other similar description that suggests that the articles can be safely cleaned in a dishwasher shall, on average, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change (Classification 1) but shall not show clearly visible change (Classification 2).



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Test Material(s) List

Material No.	Description	Location	Material
1	Silvery metal	Mug binding	Stainless steel
2	White enamel	Mug interior	Enamel
3	White/black enamel	Mug lip	Enamel
4	Enamel drinking mug - Black	/	/
5	Red enamel	Mug exterior	/
6	Green enamel	Mug exterior	/
7	Blue enamel	Mug exterior	/
8	White enamel	Mug exterior	/
9	Enamel drinking mug - Red	/	/
10	Enamel drinking mug - Green	/	/
11	Enamel drinking mug - Blue	/	/
12	Enamel drinking mug - White	/	/
13	White/red enamel	Mug lip	Enamel
14	White/green enamel	Mug lip	Enamel
15	White/blue enamel	Mug lip	Enamel
16	White enamel	Mug lip	Enamel

Photo Appendix



★★★★★End of Report★★★★★

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