



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF20F09065707F
Applicant : Mid Ocean Brands B.V.
Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer : 115253
Sample Name : Double wall stainless steel mug
Model No. : MO8313
Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB) Section 30 & 31, Council of Europe Resolution CM/Res(2013)9 and Regulation (EC) No 1935/2004.
Test Conclusion : **Pass** (Please refer to next pages for details)
Date of Receipt sample : 2020-09-11
Date of Test : 2020-09-11 to 2020-09-17
Date of Issue : 2020-09-17
Test Result : Please refer to next page (s)

Remarks:

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Prepared By:

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Compiled by:

Abby Zhou

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Approved by:

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Dino.Zhang / Technical Manager

**Test Results:****Council of Europe Resolution CM/Res(2013)9-Specific Migration of Heavy Metal**

Test Items	1st+2nd Migration (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
	No.1		
Aluminium (Al)	ND	0.2	35
Antimony (Sb)	ND	0.02	0.28
Chromium (Cr)	0.24	0.04	1.75
Cobalt (Co)	ND	0.02	0.14
Copper (Cu)	ND	0.2	28
Iron (Fe)	4.6	0.4	280
Manganese (Mn)	ND	0.2	12.6
Molybdenum (Mo)	ND	0.02	0.84
Nickel (Ni)	ND	0.02	0.98
Silver (Ag)	ND	0.02	0.56
Tin (Sn)	ND	0.2	700
Vanadium (V)	ND	0.01	0.07
Zinc (Zn)	ND	0.2	35
Arsenic (As)	ND	0.002	0.014
Barium (Ba)	ND	0.2	8.4
Beryllium (Be)	ND	0.01	0.07
Cadmium (Cd)	ND	0.002	0.035
Lead (Pb)	ND	0.01	0.07
Lithium (Li)	ND	0.01	0.336
Mercury (Hg)	ND	0.002	0.021
Thallium (Tl)	ND	0.0002	0.0007
Magnesium (Mg)	ND	0.2	--
Titanium (Ti)	ND	0.02	--



Test Items	3rd Migration (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
	No.1		
Aluminium (Al)	ND	0.1	5
Antimony (Sb)	ND	0.01	0.04
Chromium (Cr)	ND	0.02	0.25
Cobalt (Co)	ND	0.01	0.02
Copper (Cu)	ND	0.1	4
Iron (Fe)	0.2	0.2	40
Manganese (Mn)	ND	0.1	1.8
Molybdenum (Mo)	ND	0.01	0.12
Nickel (Ni)	ND	0.01	0.14
Silver (Ag)	ND	0.01	0.08
Tin (Sn)	ND	0.1	100
Vanadium (V)	ND	0.005	0.01
Zinc (Zn)	ND	0.1	5
Arsenic (As)	ND	0.001	0.002
Barium (Ba)	ND	0.1	1.2
Beryllium (Be)	ND	0.005	0.01
Cadmium (Cd)	ND	0.001	0.005
Lead (Pb)	ND	0.005	0.01
Lithium (Li)	ND	0.005	0.048
Mercury (Hg)	ND	0.001	0.003
Thallium (Tl)	ND	0.0001	0.0001
Magnesium (Mg)	ND	0.1	--
Titanium (Ti)	ND	0.01	--

Note:

1. Test Method: With reference to BS EN 13130-1: 2004, analysis was performed by ICP-OES and ICP-MS.
2. Test Condition and simulant: Sample(s) were migrated with 5g/L citric acid at 70°C for 4 hours.
3. "mg/kg" = milligram per kilogram of foodstuff in contact with
4. LOQ = Limit of quantitation
5. ND = Not Detected or lower than limit of quantitation
6. "--" = Not regulated
7. The specification was quoted from Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9.



Sample Photo:



Photograph of parts tested:

No.	Photo of testing part	Parts Description	Client Claimed Material
1		Silvery metal	Stainless steel

===== End of Report =====

Report No.: CTT181060655ENR3

Date: Feb. 28, 2019

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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.

The following merchandise was (were) submitted and identified by client as:

Sample Name: MO8314, KC1203, MO8920, MO8125, MO8313

Sample Model No.: MO8314, KC1203, MO8920, MO8125, MO8313

Vendor code: 111021

Exported to: Europe

Country of Origin: China

Sample Received Date: Oct. 31, 2018

Completed Date: Dec. 15, 2018

Test Result(s): Please refer to next page(s).

Signed for and on Behalf of CTT



Yurong Zhong / Technical Director
Consumer Testing Technology Co., Ltd.

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Test Requested and Conclusion(s):

No.	Test Sample	Standard and Requirement	Conclusion(s)
1.	Submitted sample	COMMISSION REGULATION (EU)No.10/2011 on plastic materials and articles intended to come into contact with food. - Overall migration - Soluble heavy metal - Specific migration of Acrylonitrile	PASS
2.	Submitted sample	Framework Resolution ResAP(2004)1 on coating intended to come into contact with foodstuffs. - Overall migration	PASS
3.	Submitted sample	Framework Resolution ResAP(2004)5 on silicones used for food contact applications. - Overall migration	PASS
4.	Submitted sample	CM/Res(2013)9 on metals and alloys used in food contact materials and articles. - Specific Release of Heavy Metals	PASS
5.	Submitted sample	Client's requirements on Specific Release of Heavy Metals	PASS
6.	Submitted sample	Annex XVII items 63 of the REACH Regulation (EC) No 1907/2006 & amended (EU) No 836/2012 - Lead content	PASS
7.	Submitted sample	Annex XVII items 23 of the REACH Regulation (EC) No 1907/2006 & COMMISSION REGULATION (EU) No 494/2011 - Total cadmium (Cd)	PASS
8.	Submitted sample	Annex XVII items 51 & 52 of the REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 - Phthalates	PASS
9.	Submitted sample	Client's requirements on Bisphenol A (BPA)	PASS

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Test Result(s):

Overall migration

Method: With reference to EN1186-1:2002&EN1186-3:2002

Material No.	Description	Location
1	Black plastic(PP)	Cap(A)
2	White plastic(PE)	Suction nozzle(A)
3	Black plastic(PP)	Lid(A)/inner cap/kick-off circle(B)
12	Grey plastic(ABS)	Button interlayer(B)
13	White transparent plastic(PP)	Button interlayer(B)

Material No.	Test Condition	Limit (mg/dm ²)	Result(mg/dm ²)	Conclusion
1	3% Acetic acid(w/v), 100°C, 1 hours	10	<3	PASS
	50% Ethanol(v/v), 100°C, 1 hours	10	<3	PASS
2	3% Acetic acid(w/v), 100°C, 1 hours	10	<3	PASS
	50% Ethanol(v/v), 100°C, 1 hours	10	<3	PASS
3	3% Acetic acid(w/v), 100°C, 1 hours	10	<3	PASS
	50% Ethanol(v/v), 100°C, 1 hours	10	<3	PASS
12	3% Acetic acid(w/v), 100°C, 1 hours	10	<3	PASS
	50% Ethanol(v/v), 100°C, 1 hours	10	<3	PASS
13	3% Acetic acid(w/v), 100°C, 1 hours	10	<3	PASS
	50% Ethanol(v/v), 100°C, 1 hours	10	<3	PASS

Note: 1. mg/dm² = milligram per square decimetre of surface area of material or article.

Overall migration

Method: With reference to EN1186-1:2002&EN1186-3:2002

Material No.	Description	Location
4	White transparent silicone	Seal ring(A/B)

Material No.	Test Condition	Limit (mg/dm ²)	Result(mg/dm ²)	Conclusion
4	3% Acetic acid(w/v), 100°C, 1 hours	10	<3	PASS
	50% Ethanol(v/v), 100°C, 1 hours	10	<3	PASS

Note: 1. mg/dm² = milligram per square decimetre of surface area of material or article.

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Test Result(s):

Overall migration

Method: With reference to EN1186-1:2002&EN1186-9:2002

Material No.	Description	Location
11	Silvery metal with epoxy coating with golden plating	Linner individual(A)

Material No.	Test Condition	Limit (mg/dm ²)	Result(mg/dm ²)	Conclusion
11	3% Acetic acid(w/v), 100°C, 1 hours	10	<3	PASS
	50% Ethanol(v/v), 100°C, 1 hours	10	<3	PASS

Note: 1. mg/dm² = milligram per square decimetre of surface area of material or article.

Soluble heavy metal

Method: With reference to BS EN13130-1:2004, was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
1	Black plastic(PP)	Cap(A)
2	White plastic(PE)	Suction nozzle(A)
3	Black plastic(PP)	Lid(A)/inner cap/kick-off circle(B)
12	Grey plastic(ABS)	Button interlayer(B)
13	White transparent plastic(PP)	Button interlayer(B)

Elements	Ba	Co	Cu	Fe	Li	Mn	Zn	Al	Conclusion
Limit (mg/kg)	1	0.05	5	48	0.6	0.6	5	1	
Material No.	Result (mg/kg)								Conclusion
1	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	
2	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	PASS
3	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	PASS
12	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	PASS
13	<0.1	<0.05	<0.5	<1	<0.1	<0.05	<1	<0.1	PASS

Note: 1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
 2. Test condition: 3% Acetic acid(w/v) at 70°C for 2 hours.

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Test Result(s):

Soluble heavy metal

Method: With reference to BS EN13130-1:2004, was analyzed by Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
1	Black plastic(PP)	Cap(A)
2	White plastic(PE)	Suction nozzle(A)
3	Black plastic(PP)	Lid(A)/inner cap/kick-off circle(B)
12	Grey plastic(ABS)	Button interlayer(B)
13	White transparent plastic(PP)	Button interlayer(B)

Elements	Ni	Conclusion
Limit (mg/kg)	0.02	
Material No.	Result (mg/kg)	
1	<0.01	PASS
2	<0.01	PASS
3	<0.01	PASS
12	<0.01	PASS
13	<0.01	PASS

- Note:**
1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
 2. Test condition: 3% Acetic acid(w/v) at 70°C for 2hours.

Specific migration of Acrylonitrile^s

Method: With reference to BS EN 13130-3:2004, analyzed by Headspace Gas Chromatograph (HS-GC).

Material No.	Description	Location
12	Grey plastic(ABS)	Button interlayer(B)

Material No.	Test Condition	Limit(mg/kg)	Result(mg/kg)	Conclusion
12	3% Acetic acid(w/v),70°C for 2 hours	0.01	<0.01	PASS

- Note:**
1. mg/kg = milligrams of the constituents released per kilogram of foodstuff.

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Test Result(s):

Specific Release of Heavy Metals

Method: With reference to CM/Res(2013)9, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) / Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
9	Silvery metal(SS 304)	Linner(B)

Elements	SRL (mg/kg)		Result (mg/kg)		Conclusion
	1 st + 2 nd	3 rd	No.9*		
			1 st + 2 nd	3 rd	
Tin(Sn)	700	100	< 2	< 1	PASS
Copper(Cu)	28	4	< 2	<1	
Iron(Fe)	280	40	< 2	< 1	
Manganese(Mn)	12.6	1.8	< 0.2	< 0.1	
Zinc(Zn)	35	5	< 2	< 1	
Aluminum(Al)	35	5	< 2	<1	
Barium(Ba)	8.4	1.2	< 0.2	< 0.1	
Titanium(Ti)	--	--	< 2	< 1	
Magnesium(Mg)	--	--	< 2	< 1	
Chromium(Cr)	1.750	0.250	< 0.100	< 0.050	
Nickel(Ni)	0.98	0.14	< 0.10	< 0.05	
Lithium(Li)	0.336	0.048	< 0.020	< 0.010	
Beryllium(Be)	0.07	0.01	< 0.002	< 0.001	
Vanadium(V)	0.07	0.01	< 0.002	< 0.001	
Cobalt(Co)	0.14	0.02	< 0.002	< 0.001	
Molybdenum(Mo)	0.84	0.12	< 0.02	< 0.01	
Silver(Ag)	0.56	0.08	< 0.02	< 0.01	
Antimony(Sb)	0.28	0.04	< 0.02	< 0.01	
Lead(Pb)	0.07	0.01	< 0.002	< 0.001	
Arsenic(As)	0.014	0.002	< 0.002	< 0.001	
Cadmium(Cd)	0.035	0.005	< 0.002	< 0.001	
Mercury(Hg)	0.021	0.003	< 0.002	< 0.001	
Thallium(Tl)	0.0007	0.0001	< 0.0002	< 0.0001	

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- Note:**
1. "--" = No requirement.
 2. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
 3. SRL = Specific Release Limit.
 4. Test Condition: 0.5% Citric acid at 70°C for 2 hours,
 5. "*" = This sample is received on Nov. 21, 2018.

Test Result(s):

Specific Release of Heavy Metals

Method: With reference to CM/Res(2013)9, analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) / Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

Material No.	Description	Location
11	Silvery metal with epoxy coating with golden plating	Linner individual(A)

Elements	Client's Limit (mg/kg)		Result (mg/kg)		Conclusion
	1 st + 2 nd	3 rd	No.11		
			1 st + 2 nd	3 rd	
Tin(Sn)	700	100	< 2	< 1	PASS
Copper(Cu)	28	4	< 2	< 1	
Iron(Fe)	280	40	< 2	< 1	
Manganese(Mn)	12.6	1.8	< 0.2	< 0.1	
Zinc(Zn)	35	5	< 2	< 1	
Aluminum(Al)	35	5	< 2	1.2	
Barium(Ba)	8.4	1.2	< 0.2	< 0.1	
Titanium(Ti)	--	--	< 2	< 1	
Magnesium(Mg)	--	--	< 2	< 1	
Chromium(Cr)	1.750	0.250	< 0.100	< 0.050	
Nickel(Ni)	0.98	0.14	< 0.10	< 0.05	
Lithium(Li)	0.336	0.048	< 0.020	< 0.010	
Beryllium(Be)	0.07	0.01	< 0.002	< 0.001	
Vanadium(V)	0.07	0.01	< 0.002	< 0.001	
Cobalt(Co)	0.14	0.02	< 0.002	< 0.001	
Molybdenum(Mo)	0.84	0.12	< 0.02	< 0.01	
Silver(Ag)	0.56	0.08	< 0.02	< 0.01	
Antimony(Sb)	0.28	0.04	< 0.02	< 0.01	

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Lead(Pb)	0.07	0.01	< 0.002	< 0.001
Arsenic(As)	0.014	0.002	< 0.002	< 0.001
Cadmium(Cd)	0.035	0.005	< 0.002	< 0.001
Mercury(Hg)	0.021	0.003	< 0.002	< 0.001
Thallium(Tl)	0.0007	0.0001	< 0.0002	< 0.0001

- Note:**
1. "--" = No requirement.
 2. mg/kg = milligrams of the constituents released per kilogram of foodstuff.
 3. Test Condition: 0.5% Citric acid at 70°C for 2 hours,

Test Result(s):

REACH - Lead content

Method: With reference to IEC 62321-5: 2013, analyzed Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	500	N.D.	PASS
2	500	N.D.	PASS
3	500	N.D.	PASS
4	500	N.D.	PASS
5	500	N.D.	PASS
6	500	N.D.	PASS
7	500	N.D.	PASS
8	500	17	PASS
9*	500	28	PASS
10	500	N.D.	PASS
12	500	N.D.	PASS
13	500	N.D.	PASS
14	500	55	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL (Reporting Limit) = 10 mg/kg.
 4. "*" = This sample is received on Nov. 21, 2018.

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Test Result(s):

Total cadmium (Cd)

Method: With reference to IEC 62321-5: 2013 analyzed by Atomic Absorption Spectroscopy (AAS).

Material No.	Limit (mg/kg)	Result (mg/kg)	Conclusion
1	100	N.D.	PASS
2	100	N.D.	PASS
3	100	N.D.	PASS
4	100	N.D.	PASS
6	1000	N.D.	PASS
7	100	N.D.	PASS
10	1000	N.D.	PASS
12	100	N.D.	PASS
13	100	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (<RL).
 3. RL (Reporting Limit) = 2 mg/kg.

Phthalates

Method: With reference to ISO 8124-6:2014, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	SUM	DNOP	DIDP	DINP	SUM	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	--	117-84-0	26761-40-0 /68515-49-1	28553-12-0 /68515-48-0	--	
Limit (mg/kg)	--	--	--	1000	--	--	--	1000	
RL (mg/kg)	50	50	50	--	50	100	100	--	
Material No.	Result (mg/kg)								
1+2+3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
4+7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
6+10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
12+13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL = Reporting Limit.

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4. The DBP, DEHP and BBP shall not be used as substances or in mixtures, in concentrations greater than 1000 mg/kg by weight of the plasticised material, in toys and childcare articles.
5. The DINP, DIDP and DNOP shall not be used as substances or in mixtures, in concentrations greater than 1000 mg/kg by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
6. "+" = The test result is obtained from composite testing on materials linked with "+" mark, it is possible that individual test result can be higher if the materials are tested separately. This had been taken in account in the conclusion of this report.

Test Result(s):

Bisphenol A (BPA)

Method: With reference to US EPA 3540C:1996, analyzed by High Performance Liquid Chromatograph (HPLC-DAD).

Material No.	Client's Limit (mg/kg)	Result (mg/kg)	Conclusion
2	0.1	N.D.	PASS
4	0.1	N.D.	PASS
7	0.1	N.D.	PASS
12	0.1	N.D.	PASS
13	0.1	N.D.	PASS
15*	0.1	N.D.	PASS

- Note:**
1. mg/kg = milligram per kilogram (ppm).
 2. N.D. = Not Detected (< RL).
 3. RL(Reporting Limit) =0.1mg/kg.
 4. "*" = This sample is received on Nov. 15, 2018.

Test Material List

The following materials apply only to the samples submitted for chemical testing

Material No.	Description	Location
1	Black plastic(PP)	Cap(A)
2	White plastic(PE)	Suction nozzle(A)
3	Black plastic(PP)	Lid(A)/inner cap/kick-off circle(B)
4	White transparent silicone	Seal ring(A/B)
5	Silvery white metal(Al)	Cup body substrate(A)
6	Black paint	Cup body coating(A)

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7	White plastic(ABS)	Button/kick-off circle(B)
8	Silvery metal(SS 201)	Cup body substrate(B)
9	Silvery metal(SS 304)	Linner(B)
10	Blue paint	Cup body coating(B)
11	Silvery metal with epoxy coating with golden plating	Linner individual(A)
12	Grey plastic(ABS)	Button interlayer(B)
13	White transparent plastic(PP)	Button interlayer(B)
14	Silvery metal with golden plating	Bottleneck(A)
15	Black plastic(PP)	Lid(A)/inner cap/kick-off circle(B)

Remark: CTT181060655ENR2 is replaced by this report.

Photo of Sample:



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Photo of Sample:



End of Report

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