



TEST REPORT

Report No.: STSGZ2210103007E

Date: 3-Nov-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

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

Sample Name: Double wall S/S bottle with thermometer

Model/Style/Item #: MO6872

Receiving Date: 10-Oct-2022

Test Period: From 10-Oct-2022 to 14-Oct-2022

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
3	Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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#	Test Item(s)	Reference Standard/Method	Result
4	Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 1186-1:2002 & EN 1186-3:2002	PASS
5	Overall migration - Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material	EN 1186-1:2002 & EN 1186-3:2002	PASS
6	Specific migration of Heavy Metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	EN 13130-1: 2004, determined by ICP-OES	PASS
7	Specific migration of Primary Aromatic Amine - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	EN 13130-1:2004, determined by GC/MS	PASS
8	Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	In-house Method, determined by LC-MS	PASS
9	Overall migration - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992- For Silicone Material	EN 1186-1:2002 & EN 1186-3:2002	PASS
10	Volatile Compounds Content - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	Order 25/11/1992	PASS
11	Peroxides value - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	French pharmacopoeia method	PASS
12	Organotin Content for Silicone Materials in Contact with Foodstuffs - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	EN 13130-1:2004, determined by ICP-OES	PASS
13	Bisphenol A Contents - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992	In-house Method, determined by LC-MS	PASS
14	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS
15	Extractable Heavy metal - Regulation (EC) No 1935/2004 and Council of Europe Resolution CMRes(2013)9	BS EN 13130-1:2004&BS EN 11885:2009, determined by ICP-OES and ICP-MS	PASS

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Result:

1. Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Material				Limit (mg/kg)	RL (mg/kg)
		1	2	3	4		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

2. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Result(s)		Limit (mg/kg)	RL (mg/kg)
		1			
1	Cadmium (Cd) CAS#7440-43-9	N.D.		1000	10
	Conclusion	PASS		-	-

Compound		Result(s)		Limit (mg/kg)	RL (mg/kg)
		3	4		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

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3. Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006
EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Compound			Result(s)			Limit (%)	RL (%)
			1	3	4		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	0.1	-
Conclusion			PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)
(c) The data of #4 was retesting result.

4. Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245
EN 1186-1:2002 & EN 1186-3:2002

Test specification		Result(s)			Limit (mg/dm ²)	RL (mg/dm ²)
		3				
		1 st	2 nd	3 rd		
1	10% Ethanol, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 70 °C, 2h	N.D.	N.D.	N.D.	10	3
Conclusion		-	-	PASS	-	-

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Remark(s): (a) mg/dm²: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

5. Overall Migration for Silicone Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2002

Test specification		Material				
		4			Limit (mg/dm ²)	RL (mg/dm ²)
		3 rd				
1	10% Ethanol, 70 °C, 2h	N.D.			10	3
2	3% Acetic acid, 70 °C, 2h	N.D.			10	3
Conclusion		PASS			-	-

Remark(s): (a) mg/dm²: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

6. Specific migration of Heavy Metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 EN 13130-1: 2004, determined by ICP-OES

Test condition: 3%Acetic acid, 70°C, 2h

Compound		Result			Limit (mg/kg)	RL (mg/kg)
		3				
		1 st	2 nd	3 rd		
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
3	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
4	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
5	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
6	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
7	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01

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8	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
9	Europium (Eu)	N.D.	N.D.	N.D.	0.05	0.01
10	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05	0.01
11	Iron (Fe)	N.D.	N.D.	N.D.	48	1
12	Lanthanum (La)	N.D.	N.D.	N.D.	0.05	0.01
13	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
14	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
15	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
16	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
17	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
18	Terbium (Tb)	N.D.	N.D.	N.D.	0.05	0.01
19	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
Conclusion		-	-	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
 (b) RL: Report limit
 (c) N.D.: Not detected (result is less than RL)

7. Specific migration of Primary Aromatic Amine EN 13130-1:2004, determined by GC/MS

Test Condition: 3%Acetic acid, 70 °C, 2h

Compound	Result			Limit (mg/kg)	RL (mg/kg)
	3				
	1 st	2 nd	3 rd		
1 Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
Conclusion	-	-	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
 (b) RL: Report limit
 (c) N.D.: Not detected (result is less than RL)

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8. Bisphenol A (BPA) content In-house Method, determined by LC-MS

Test Item		Material		Client's Limit (mg/kg)	RL (mg/kg)
		3	4		
1	Bisphenol A	N.D.	N.D.	Not Detected	0.01
Conclusion		PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

9. Overall Migration for Silicone Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2002

Test specification		Material		Limit (mg/dm ²)	RL (mg/dm ²)
		4			
		3 rd			
1	10% Ethanol, 70 °C, 2h	N.D.		10	3
2	3% Acetic acid, 70 °C, 2h	N.D.		10	3
Conclusion		PASS		-	-

Remark(s): (a) mg/dm²: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

10. Volatile Compounds Content for Silicone Materials in Contact with Foodstuffs Order 25/11/1992

Test condition: 200 °C, 4h

Compound		Material		Limit (%)	RL (%)
		4			
1	Volatile Compounds	0.45		0.5	0.1
Conclusion		PASS		-	-

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Remark(s): (a) RL: Report limit

11. Peroxide Value for Silicone Materials in Contact with Foodstuffs French pharmacopoeia method

Compound		Material	Requirement
		4	
1	Peroxide Value	Negative	Negative
Conclusion		PASS	-

12. Organotin Content for Silicone Materials in Contact with Foodstuffs EN 13130-1:2004, determined by ICP-OES

Test condition: 3% acetic acid, 70°C, 2h

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		4		
1	Organotin(as Sn)	N.D.	0.1	0.01
Conclusion		PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit

13. Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, French Decree 2007- 766 and French Order 25/11/1992 In-house Method, determined by LC-MS

Test Item		Material	Client's Limit (mg/kg)	RL (mg/kg)
		4		
1	Bisphenol A	N.D.	Not Detected	0.01
Conclusion		PASS	-	-

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**14. Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)
BS EN 12875-1:2005**

	Sample	5
After 10 cycles	Color ¹⁾	0
	Gloss	0
	Clouding	0
	Resistant deposits and iridescent layers ²⁾	0
	Other aspects	0

Remark(s): 1).If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.
2).For the elimination of easily removable deposits.
3).See photo bar for test photos

Note: Pictures are for reference only. Actual colours of the pictures may vary due to lighting and output process.
Evaluation of inspection criteria quoted from BS EN 12875-1:2005.

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

Requirements quoted from 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, 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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15. Extractable Heavy metal
BS EN 13130-1: 2004&BS EN 11885:2009,determined by ICP-OES and ICP-MS

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

Elements	Material		Limit (mg/kg)		RL (mg/kg)		
	2		1 st + 2 nd	3 rd	1 st + 2 nd	3 rd	
	1 st + 2 nd	3 rd					
1	Tin (Sn)	N.D.	N.D.	700	100	2	1
2	Copper (Cu)	N.D.	N.D.	28	4	2	1
3	Iron (Fe)	N.D.	N.D.	280	40	2	1
4	Manganese (Mn)	N.D.	N.D.	12.6	1.8	0.2	0.1
5	Zinc (Zn)	N.D.	N.D.	35	5	2	1
6	Aluminum (Al)	N.D.	N.D.	35	5	2	1
7	Barium (Ba)	N.D.	N.D.	8.4	1.2	0.2	0.1
8	Chromium (Cr)	N.D.	N.D.	1.75	0.25	0.1	0.05
9	Nickel (Ni)	N.D.	N.D.	0.98	0.14	0.1	0.05
10	Lithium (Li)	N.D.	N.D.	0.336	0.048	0.02	0.01
11	Beryllium (Be)	N.D.	N.D.	0.07	0.01	0.002	0.001
12	Vanadium (V)	N.D.	N.D.	0.07	0.01	0.002	0.001
13	Cobalt (Co)	N.D.	N.D.	0.14	0.02	0.002	0.001
14	Molybdenum (Mo)	N.D.	N.D.	0.84	0.12	0.02	0.01
15	Silver (Ag)	N.D.	N.D.	0.56	0.08	0.02	0.01
16	Antimony (Sb)	N.D.	N.D.	0.28	0.04	0.02	0.01
17	Lead (Pb)	N.D.	N.D.	0.07	0.01	0.002	0.001
18	Arsenic (As)	N.D.	N.D.	0.014	0.002	0.002	0.001
19	Cadmium (Cd)	N.D.	N.D.	0.035	0.005	0.002	0.001
20	Mercury (Hg)	N.D.	N.D.	0.021	0.003	0.002	0.001

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21	Thallium (TI)	N.D.	N.D.	0.0007	0.0001	0.0002	0.0001
22	Magnesium (Mg)	N.D.	N.D.	-	-	2	1
23	Titanium (Ti)	N.D.	N.D.	-	-	2	1
	Conclusion	PASS	PASS	-	-	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

Material List:

Material #	Position / Sample Description	Material
1	Black coating,bottle shell	-
2	Silvery metal,bottle	Stainless steel 304
3	Black plastic,lid	PP
4	Translucent silicone sealring	silicone
5	Article	-

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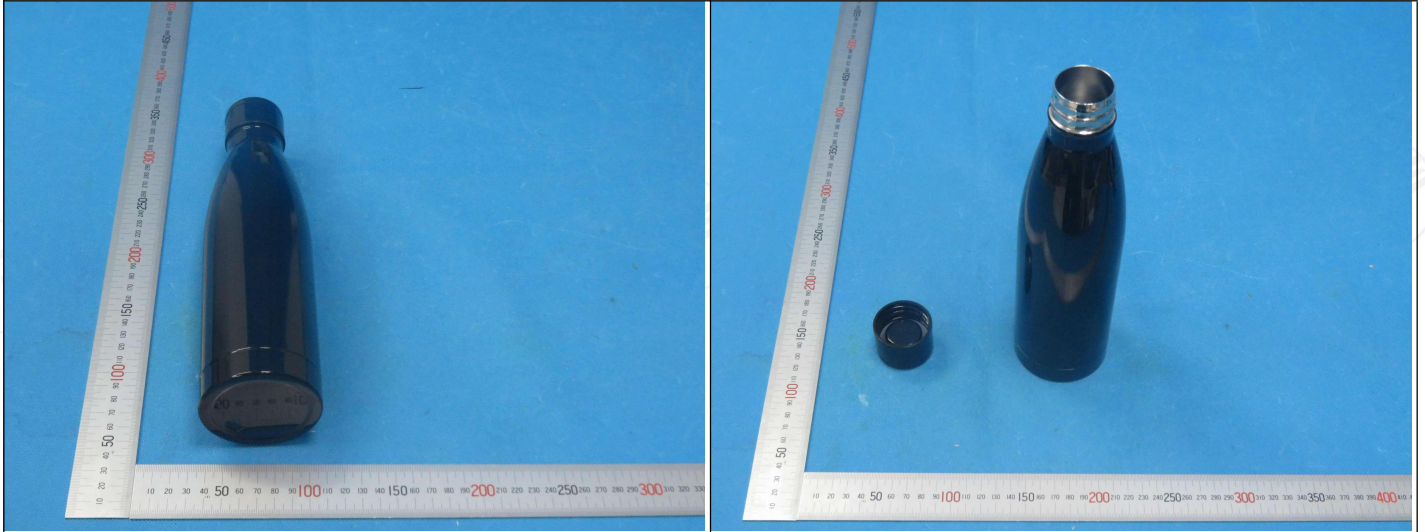
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Photo(s):



Product Photo

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签发测试报告条款

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