



# TEST REPORT

Report No.: STSGZ2305313058E

Date: 14-Jun-2023

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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:** Powder coated single wall recycled SS cup

**Model/Style/Item #:** MO2090

**Receiving Date:** 31-May-2023

**Test Period:** From 31-May-2023 to 8-Jun-2023

**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	<b>PASS</b>
2	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	<b>PASS</b>
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	<b>PASS</b>
4	Polycyclic-aromatic hydrocarbons (PAHs) content-- Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013	AfPS-GS-2019-01:PAK, determined by GC-MS	<b>PASS</b>

\*\*\*\*\*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
<b>Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 - For Plastic Material</b>			
5	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
6	Specific migration of Heavy Metal	EN 13130-1: 2004, determined by ICP-OES	<b>PASS</b>
7	Specific migration of Primary Aromatic Amine	EN 13130-1:2004, determined by GC/MS	<b>PASS</b>
8	Bisphenol A (BPA) content	In-house Method, determined by LC-MS	<b>PASS</b>
<b>Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material</b>			
9	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
10	Bisphenol A Contents	In-house Method, determined by LC/MS	<b>PASS</b>
11	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	<b>PASS</b>
<b>French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material</b>			
12	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	<b>PASS</b>
13	Peroxide Value	Europe pharmacopoeia,9.0 chapter 2.5.5.	<b>PASS</b>
14	Specific migration of Organotin (as Tin)	EN 13130-1: 2004, determined by ICP-OES	<b>PASS</b>
15	Volatile organic matter	French Arrêté du Novembre 1992 Annex III.	<b>PASS</b>
16	Bisphenol A Contents	In-house Method, determined by LC-MS	<b>PASS</b>
17	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	<b>PASS</b>
18	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	<b>PASS</b>
<b>Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9 - For Metal Material</b>			
19	Extractable Heavy metal	BS EN 13130-1:2004&BS EN 11885:2009, determined by ICP-OES and ICP-MS	<b>PASS</b>

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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
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound		Material			Limit (mg/kg)	RL (mg/kg)
		5				
1	Lead(Pb) CAS#7439-92-1	N.D.			500	10
	<b>Conclusion</b>	<b>PASS</b>			-	-

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	2	3	6		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	100	10
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

Compound		Result(s)			Limit (mg/kg)	RL (mg/kg)
		4				
1	Cadmium (Cd) CAS#7440-43-9	N.D.			1000	10
	<b>Conclusion</b>	<b>PASS</b>			-	-

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

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

Compound			Result(s)				Limit (%)	RL (%)
			6					
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.				-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.				-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.				-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.				-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.				-	0.005

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6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	0.1	-
<b>Conclusion</b>			<b>PASS</b>	-	-

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

**4. Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013  
AfPS-GS-2019-01:PAK, determined by GC-MS**

Compound	Material				Limit (mg/kg)	RL (mg/kg)
	Category I *1					
	1	2	3	4		
1 Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	N.D.	N.D.	1	0.2
2 Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	N.D.	N.D.	1	0.2
3 Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	N.D.	N.D.	1	0.2
4 Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	N.D.	N.D.	1	0.2
5 Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	N.D.	N.D.	1	0.2
6 Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	N.D.	N.D.	1	0.2
7 Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	N.D.	N.D.	1	0.2
8 Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	N.D.	N.D.	1	0.2
<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

Category II: Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human

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skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213 - For Plastic Material

## 5. Overall migration

EN 1186-1:2002 & EN 1186-3:2022

Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		1				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	3% Acetic acid, 70°C, 2h	N.D.	N.D.	N.D.	10	3
2	50% Ethanol, 70°C, 2h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 6. Specific migration of Heavy Metal

EN 13130-1: 2004, determined by ICP-OES

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

Compound		Result(s)			Limit (mg/kg)	RL (mg/kg)
		1				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Ammonium	N.D.	N.D.	N.D.	-	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002

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7	Calcium(Ca)	N.D.	N.D.	N.D.	-	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
21	Potassium(K)	N.D.	N.D.	N.D.	-	0.1
22	Sodium(Na)	N.D.	N.D.	N.D.	-	0.1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
	<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/kg: milligram per kilogram  
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## 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)
	1				
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1 Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
<b>Conclusion</b>	-	-	<b>PASS</b>	-	-

Compound	Material			Limit (mg/kg)	RL (mg/kg)
	1				
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1 biphenyl-4-ylamine 4- aminobiphenyl xenylamine CAS# 92-67-1	N.D.	N.D.	N.D.	0.01	0.002
2 Benzidine CAS# 92-87-5	N.D.	N.D.	N.D.	0.01	0.002
3 4-chloro-o-toluidine CAS# 95-69-2	N.D.	N.D.	N.D.	0.01	0.002
4 2-Naphthylamine CAS# 91-59-8	N.D.	N.D.	N.D.	0.01	0.002
5 o-aminoazotoluene 4- amino-2',3- dimethylazobenzene 4-o-tolylazo-o-toluidine CAS# 97-56-3	N.D.	N.D.	N.D.	0.01	0.002
6 5-nitro-o-toluidine CAS# 99-55-8	N.D.	N.D.	N.D.	0.01	0.002
7 5-Chloroaniline CAS# 106-47-8	N.D.	N.D.	N.D.	0.01	0.002
8 4-methoxy-m- phenylenediamine CAS# 615-05-4	N.D.	N.D.	N.D.	0.01	0.002
9 4,4'-methylenedianiline 4,4'- diaminodiphenylmethane CAS# 101-77-9	N.D.	N.D.	N.D.	0.01	0.002
10 3,3'-dichlorobenzidine 3,3'- dichlorobiphenyl-4,4'- ylenediamine CAS# 91-94-1	N.D.	N.D.	N.D.	0.01	0.002

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11	3,3'-dimethoxybenzidine o-dianisidine CAS# 119-90-4	N.D.	N.D.	N.D.	0.01	0.002
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS# 119-93-7	N.D.	N.D.	N.D.	0.01	0.002
13	4,4'-methylenedi-o-toluidine CAS# 838-88-0	N.D.	N.D.	N.D.	0.01	0.002
14	6-methoxy-m-toluidine p- cresidine CAS# 120-71-8	N.D.	N.D.	N.D.	0.01	0.002
15	4,4'-methylene-bis-(2-chloro- aniline) 2,2'-dichloro-4,4'-methylene- dianiline CAS# 101-14-4	N.D.	N.D.	N.D.	0.01	0.002
16	4,4'-oxydianiline CAS# 101-80-4	N.D.	N.D.	N.D.	0.01	0.002
17	4,4'-thiodianiline CAS# 139-65-1	N.D.	N.D.	N.D.	0.01	0.002
18	o-toluidine 2-aminotoluene CAS# 95-53-4	N.D.	N.D.	N.D.	0.01	0.002
19	4-methyl-m-phenylenediamine CAS# 95-80-7	N.D.	N.D.	N.D.	0.01	0.002
20	2,4,5-trimethylaniline CAS# 137-17-7	N.D.	N.D.	N.D.	0.01	0.002
21	o-anisidine 2-methoxyaniline CAS# 90-04-0	N.D.	N.D.	N.D.	0.01	0.002
22	4-amino azobenzene CAS# 60-09-3	N.D.	N.D.	N.D.	0.01	0.002
23	1,5- Diaminenaphthalene CAS# 2242-62-01	N.D.	N.D.	N.D.	0.01	0.002
24	Aniline (ANL) CAS# 62-53-3	N.D.	N.D.	N.D.	0.01	0.002
25	2,4-Dimethylaniline (2,4-DMA) CAS# 95-68-1	N.D.	N.D.	N.D.	0.01	0.002
26	2,6-Dimethylaniline (2,6-DMA) CAS# 87-62-7	N.D.	N.D.	N.D.	0.01	0.002
27	m-Phenylenediamine (m- PDA) CAS# 108-45-2	N.D.	N.D.	N.D.	0.01	0.002
28	p-Phenylenediamine (p-PDA) CAS# 106-50-3	N.D.	N.D.	N.D.	0.01	0.002
29	2,6-Toluenediamine (2,6- TDA) CAS# 823-40-5	N.D.	N.D.	N.D.	0.01	0.002

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(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)
		1				
1	Bisphenol A	N.D.			Not Detected	0.01
<b>Conclusion</b>		<b>PASS</b>			-	-

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

## Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5 - For Silicone Material

## 9. Overall Migration EN 1186-1:2002 & EN 1186-3:2022

Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		2				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	3% Acetic acid, 70°C, 2h	N.D.	N.D.	N.D.	10	3
2	50% Ethanol, 70°C, 2h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		3				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3
2	50% Ethanol, 100°C, 1h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

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

Test Item		Material		Client's Limit (mg/kg)	RL (mg/kg)
		2	3		
1	Bisphenol A	N.D.	N.D.	Not Detected	0.01
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

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

## 11. Specific migration of Bisphenol A DD CEN/TS 13130-13:2005, determined by LC-MS

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

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		2-3rd	3-3rd		
1	Bisphenol A (BPA)	N.D.	N.D.	0.05	0.01
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

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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## French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments-For Silicone Material

### 12. Overall migration EN 1186-1:2002 & EN 1186-3:2022

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

Test specification		Result(s)			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		3				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	3% Acetic acid, 100°C, 1h	N.D.	N.D.	N.D.	10	3
2	10% Ethanol, 100°C, 1h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
 (b) RL: Report limit  
 (c) N.D.: Not detected (result is less than RL)

### 13. Peroxide Value Europe pharmacopoeia,9.0 chapter 2.5.5.

Compound		Material		Requirement
		2	3	
1	Peroxide Value	Negative	Negative	Negative
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-

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## 14. Specific migration of Organotin(as Tin) EN 13130-1:2004, determined by ICP-OES

Test condition: 3% Acetic acid, 70°C, 2h Volume to surface area ratio: 167 ml / dm<sup>2</sup>

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		2	3		
1	Organotin(as Sn)	N.D.	N.D.	0.1	0.01
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

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

## 15. Volatile organic matter French Arrêté du Novembre 1992 Annex III.

Test condition: 200°C, 4h

Compound		Material		Limit (%)	RL (%)
		2	3		
1	Volatile Compounds	0.24	N.D.	0.5	0.1
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

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

## 16. Bisphenol A Contents In-house Method, determined by LC-MS

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		2	3		
1	Bisphenol A	N.D.	N.D.	Prohibit	0.1
<b>Conclusion</b>		<b>PASS</b>	<b>PASS</b>	-	-

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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## 17. Specific migration of Bisphenol A DD CEN/TS 13130-13:2005, determined by LC-MS

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

Compound	Material		Limit (mg/kg)	RL (mg/kg)
	2	3		
	3 <sup>rd</sup>	3 <sup>rd</sup>		
1 Bisphenol A (BPA)	N.D.	N.D.	Prohibit	0.01
<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-

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

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

Sample	7
Color <sup>1)</sup>	0
Gloss	0
Clouding	0
Resistant deposits and iridescent layers <sup>2)</sup>	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

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change compared with untreated tableware (Classification 0) or show very slightly visible change (Classification 1) but shall not show clearly visible change (Classification 2)

## Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9 - For Metal Material

### 19. Specific Migration of Heavy Metal EN 13130-1: 2004&EN 11885:2009,determined by ICP-OES and ICP-MS

Test condition: Water, 70°C, 2h

Elements		Material		Limit (mg/kg)		RL (mg/kg)	
		5					
		1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>	1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>	1 <sup>st</sup> + 2 <sup>nd</sup>	3 <sup>rd</sup>
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

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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
21	Thallium (Tl)	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
	<b>Conclusion</b>	<b>PASS</b>	<b>PASS</b>	-	-	-	-

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	Grey soft plastic, handle	PP
2	Transparent silica gel,cushion	silicone
3	Transparent silica gel,ring	silicone
4	White coating,cup	-
5	Silvery metal,cup	stainless steel
6	Transparent silica gel,holder	-
7	Article	-

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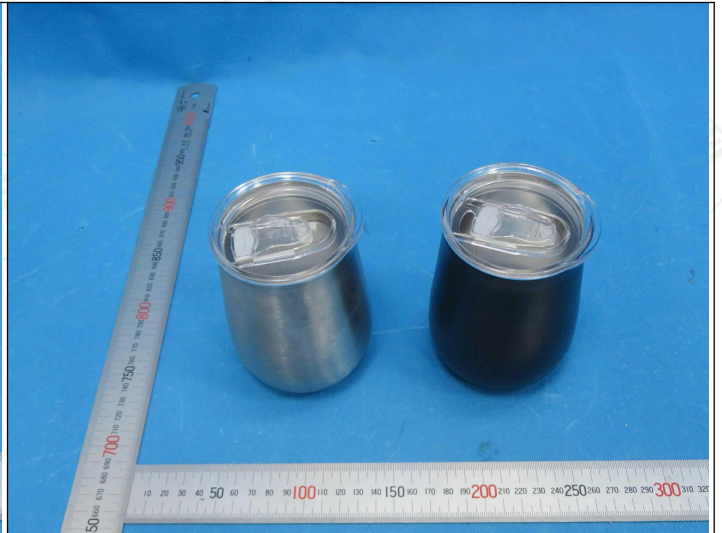
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## Photo(s):



Test Sample Photo



Product Photo

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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 ten 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.
10. 报告的签发记录可通过登录 [www.stsgz.com](http://www.stsgz.com) 查询。如需进一步查询报告有效性或核实报告,需与本公司联系。

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