



TEST REPORT

Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 1 of 17

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: Glass bottle with stainless steel lid

Model/Style/Item #: MO9800

Receiving Date: 8-Aug-2023

Test Period: From 8-Aug-2023 to 14-Aug-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	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
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	PASS
5	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	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 REPORT

Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 2 of 17

#	Test Item(s)	Reference Standard/Method	Result
Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213 - For Plastic Material			
6	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
7	Specific migration of Heavy Metal	EN 13130-1: 2004, determined by ICP-OES	PASS
8	Specific migration of Primary Aromatic Amine	EN 13130-1:2004, determined by LC/MS/MS	PASS
9	Bisphenol A (BPA) content	In-house Method, determined by LC-MS	PASS
Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC			
10	Extractable Lead, Cadmium	EN 1388-1:1995, determined by AAS	PASS
Regulation (EC) No 1935/2004 and Council of Europe Resolution AP (2004) 5- For Silicone Material			
11	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
12	Bisphenol A Contents	In-house Method, determined by LC/MS	PASS
13	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS
French Arrêté du 25 Novembre 1992 and French Décret 2007-766 with amendments - For Silicone Material			
14	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
15	Peroxide Value	Europe pharmacopoeia,9.0 chapter 2.5.5.	PASS
16	Specific migration of Organotin (as Tin)	EN 13130-1: 2004, determined by ICP-OES	PASS
17	Volatile organic matter	French Arrêté du Novembre 1992 Annex III.	PASS
18	Bisphenol A Contents	In-house Method, determined by LC-MS	PASS
19	Specific migration of Bisphenol A (BPA)	DD CEN/TS 13130-13:2005, determined by LC/MS	PASS

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TEST REPORT

Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 3 of 17

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)	
	2	3			
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)

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 (%)		
	2	3				
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	-	0.005

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Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 4 of 17

4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		N.D.	N.D.	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	0.1	-
Conclusion			PASS	PASS	-	-

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

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Date: 17-Aug-2023

Page 5 of 17

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

**5. 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 safety 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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Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 6 of 17

Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213 - For Plastic Material

6. Overall migration

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

Test specification		Result(s)			Limit (mg/dm ²)	RL (mg/dm ²)
		2				
		1 st	2 nd	3 rd		
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
Conclusion		-	-	PASS	-	-

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

7. 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)
		2				
		1 st	2 nd	3 rd		
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
7	Calcium(Ca)	N.D.	N.D.	N.D.	-	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01

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Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 7 of 17

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
	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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Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 8 of 17

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

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

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

Compound	Material			Limit (mg/kg)	RL (mg/kg)
	2				
	1 st	2 nd	3 rd		
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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Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 9 of 17

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

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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Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 10 of 17

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

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

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

Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC

10. Extractable Lead, Cadmium EN 1388-1:1995, determined by AAS

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

Test specification		Result(s)	Limit (mg/L)	RL (mg/L)
		4		
1	Lead (Pb)	N.D.	1.5	0.1
2	Cadmium (Cd)	N.D.	0.1	0.01
Conclusion		PASS	-	-

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

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TEST REPORT

Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 11 of 17

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

11. Overall Migration

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

Test specification		Result(s)	Limit (mg/dm ²)	RL (mg/dm ²)
		3 ^{-3rd}		
1	3% Acetic acid, 70°C, 2h	N.D.	10	3
2	50% Ethanol, 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)

12. Bisphenol A (BPA) content

In-house Method, determined by LC-MS

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

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

13. 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)
		3 ^{-3rd}		
1	Bisphenol A (BPA)	N.D.	0.05	0.01
Conclusion		PASS	-	-

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TEST REPORT

Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 12 of 17

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

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

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

Test specification		Result(s)	Limit (mg/dm ²)	RL (mg/dm ²)
		3 ^{-3rd}		
1	3% Acetic acid, 70°C, 2h	N.D.	10	3
2	50% Ethanol, 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)

15. Peroxide Value Europe pharmacopoeia,9.0 chapter 2.5.5.

Compound		Material	Requirement
		3	
1	Peroxide Value	Negative	Negative
Conclusion		PASS	-

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TEST REPORT

Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 13 of 17

16. 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: 168 ml / dm²

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

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

17. Volatile organic matter French Arrêté du Novembre 1992 Annex III.

Test condition: 200°C, 4h

Compound		Material	Limit (%)	RL (%)
		3		
1	Volatile Compounds	0.24	0.5	0.1
Conclusion		PASS	-	-

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

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

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

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

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TEST REPORT

Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 14 of 17

19. 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)
	3			
	3 rd			
1	Bisphenol A (BPA)	N.D.	Prohibit	0.01
Conclusion		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	Silvery metal,lid	-
2	Gray plastic,bottle cap	PP
3	Transparent silicagel,ring	Silicone
4	Transparent glass,bottle body	Glass
5	Article	-

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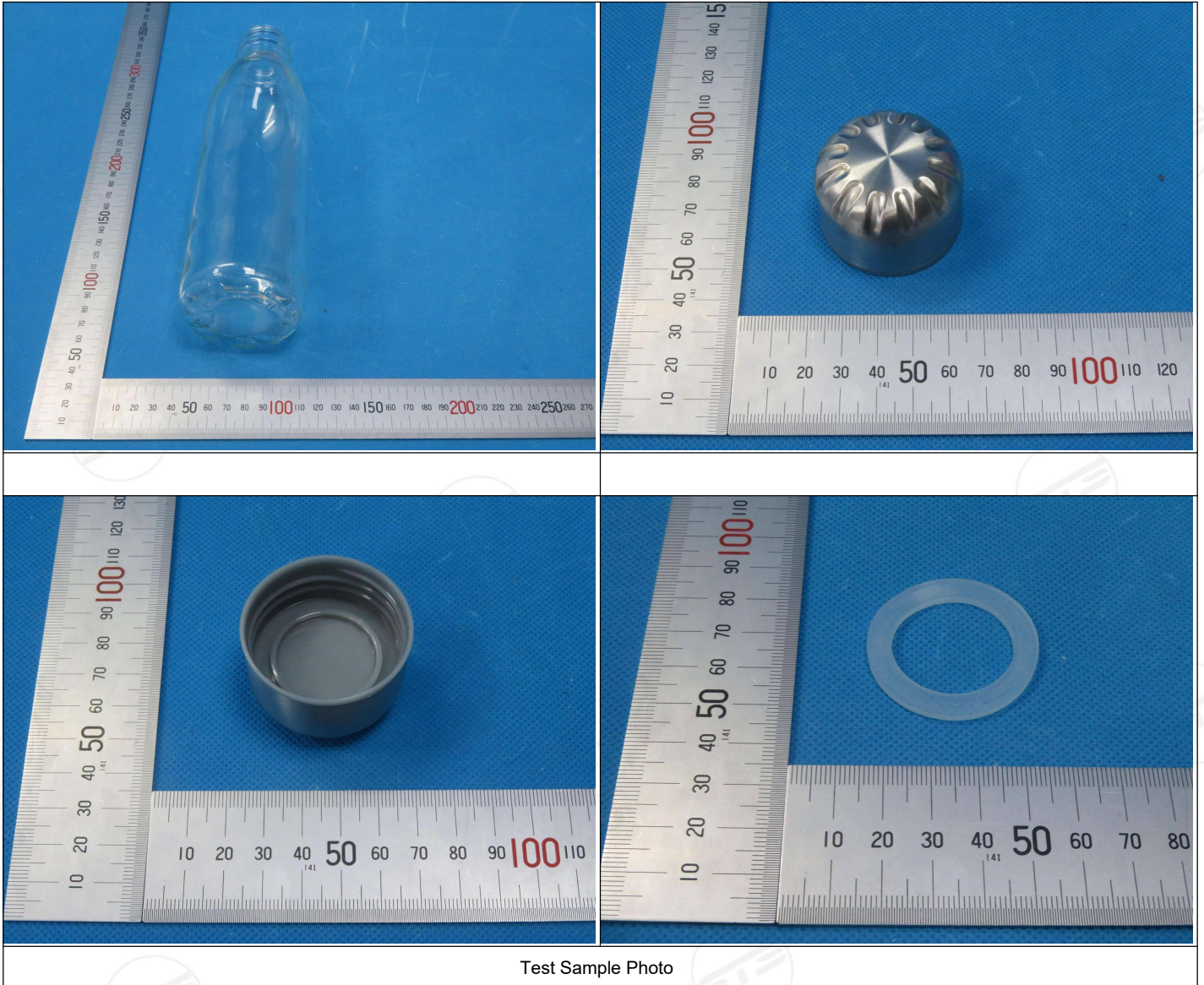
TEST REPORT

Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 15 of 17

Photo(s):



Test Sample Photo

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TEST REPORT

Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 16 of 17



Product Photo

END OF REPORT

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TEST REPORT

Report No.: STSGZ2308083043E

Date: 17-Aug-2023

Page 17 of 17

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签发测试报告条款

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