



TEST REPORT

Report No.: STSGZ2208293057E

Date: 21-Sep-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: Metal vintage mug with handle

Model/Style/Item #: MO6775

Receiving Date: 29-Aug-2022, 19-Sep-2022

Test Period: From 29-Aug-2022 to 20-Sep-2022

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result(s)
1	Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	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
3	Extractable Lead, Cadmium - Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC	EN 1388-1:1995, determined by ICP-OES	PASS
4	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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Result(s):

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		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	500	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)

2. Specific migration of Heavy metal for Plastic Materials in Contact with Foodstuffs - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 EN 13130-1: 2004, determined by ICP-OES

Test condition: 0.5% Acetic acid, 70°C, 2h

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

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Guangzhou Depuhua Test Services Co. Ltd.

A301&A401, 3/F.&4/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong, China
 Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

Web://www.stsgz.com

e-mail: stsgz@stsap.com



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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
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
	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)

(d) The sum of all lanthanide substances migrating to the food or food simulant does not exceed the specific migration limit of 0,05 mg/kg

3. Extractable Lead, Cadmium - Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC EN 1388-1:1995, determined by ICP-OES

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

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

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e-mail: stsgz@stsapp.com



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Test specification		Result(s)				Limit (mg/L)	RL (mg/L)
		4	5	6	7		
1	Lead (Pb)	N.D.	N.D.	N.D.	N.D.	1.5	0.1
2	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	0.1	0.01
Conclusion		PASS	PASS	PASS	PASS	-	-

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

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

After 10 cycles	Sample	3
	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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Material List:

Material #	Position / Sample Description
1	White enamel,cup body ^a
2	Silvery metal,rim of a cup ^b
3	Article ^c
4	Dark green enamel,cup body
5	Red enamel,cup body
6	Black enamel,cup body
7	Blue enamel,cup body

Remark(s): *a= The test data was copied from report STSGZ2204113063-1.
*b= The test data was copied from report STSGZ2204113063-2.
*c= The test data was copied from report STSGZ2204113063-3.

Photo(s):



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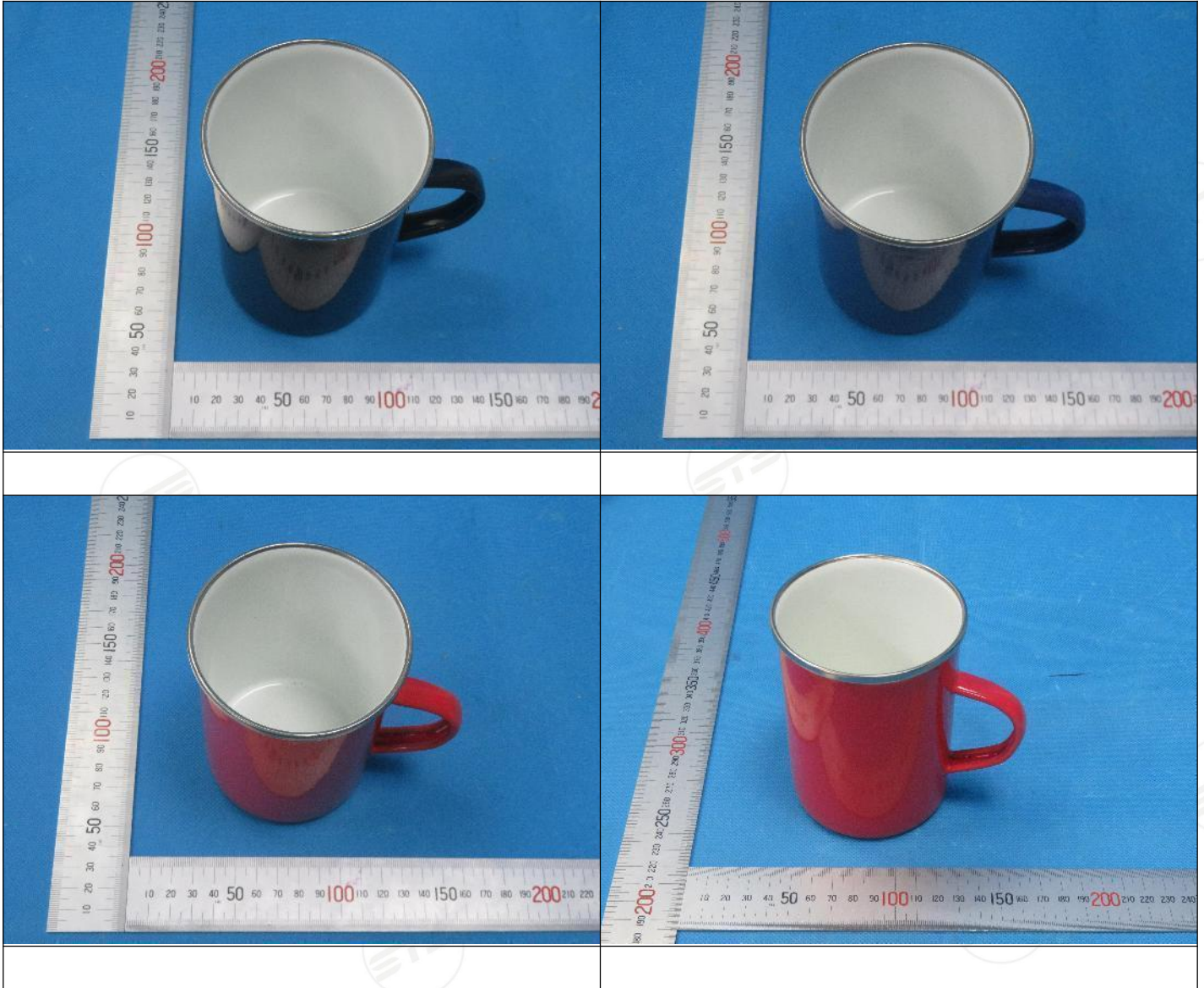


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e-mail: stsgz@stsgapp.com



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Product Photo

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e-mail: stsgz@stsapp.com

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