Test Report Number: GZHH00598212

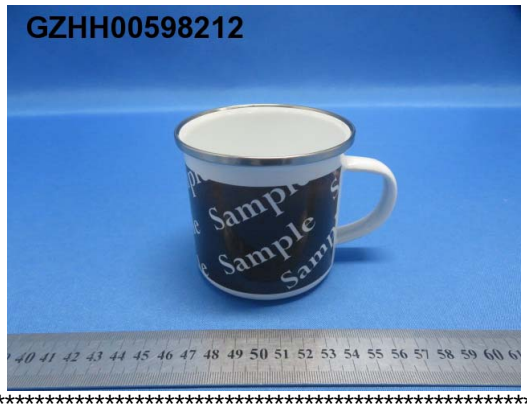
Applicant: FLASHBAY ELECTRONICS
BUILDING2, JIXUN INDUSTRIAL PARK, XINJIAO, DONG'AO VILLAGE, SHATIAN TOWN, HUIYANG DISTRICT, HUIZHOU CITY, GUANGDONG PROVINCE, P. R. CHINA

Date: Aug 05, 2025

Sample Description:

Sixteen (16) pieces of submitted sample said to be :

Item Name	:	**Drinkwares**
Item No.	:	**Trail (TRL)**
Country of Origin	:	China
Date Sample Received	:	Jun 11, 2025 & Jul 24, 2025
Testing Period	:	Jun 11, 2025 ~ Aug 05, 2025



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Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

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To be continued

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Conclusion:

Tested sample	Standard/Testing Item	Result
Tested components of submitted samples	British Standard BS 6748: 1986+A1: 2011 on leachable Lead and Cadmium content	Pass
	EDQM Technical Guide on Metals and Alloys Used in Food Contact Materials and Articles, 2024, 2nd Edition on specific migration of heavy metal	Pass
	ISO 4531:2022 on metal-ions release for vitreous and porcelain enamels	Pass

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Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines

Victor T.J. Wang
General Manager

Should you have any query on this report, please click the link below:
https://verifyindex.intertek.com.cn/home/index?id=hl_report_verify

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Tests Conducted

1 British Standard BS 6748: 1986+A1: 2011 on Leachable Lead And Cadmium Content

Test method： BS 6748 : 1986+A1:2011 by Atomic Absorption Spectrophotometric analysis.

Tested Sample/ component(9)：

Tested Specimen	Leaching Volume (ml)	Result	
		Lead	Cadmium
		mg/l	mg/l
(1)	340	ND(<0.05)	ND(<0.02)
(2)	340	ND(<0.05)	ND(<0.02)
(3)	340	ND(<0.05)	ND(<0.02)
(4)	340	ND(<0.05)	ND(<0.02)
Limit (category 2) :		4	0.3

ND = Not detected

Tested component(s): See component list in the last section of this report

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Tests Conducted

2 EDQM Technical Guide on Metals and Alloys Used in Food Contact Materials and Articles, 2024, 2nd Edition on Specific Migration of Heavy Metal

Test method: With reference to EDQM Technical Guide on Metals and Alloys Used in Food Contact Materials and Articles, 2024, 2nd Edition. Migration test was carried out and heavy metal content was determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

I. Test Condition:
Temperature: 70 °C Time: 2 hours

II. Test Result:
Food simulant: Citric acid 0.5%(m/v)

Articles for repeated use:

Tested component (8) :							
Elements	Result 1st test (mg/kg)	Result 2nd test (mg/kg)	Result 1st test+Result 2nd test (mg/kg)	Result 3rd test (mg/kg)	Detection Limit (mg/kg)	7*Limit (mg/kg)	Limit (mg/kg)
Silver (Ag)	ND	ND	ND	ND	0.05	0.56	0.08
Aluminium (Al)	ND	ND	ND	ND	1	35	5
Chromium (III) (Cr)	0.03	0.03	0.06	ND	0.02	7	1
Cobalt (Co)	ND	ND	ND	ND	0.01	0.14	0.02
Copper (Cu)	ND	ND	ND	ND	0.5	28	4
Iron (Fe)	1	ND	1	ND	1	280	40
Manganese (Mn)	ND	ND	ND	ND	0.1	3.85	0.55
Molybdenum(Mo)	ND	ND	ND	ND	0.02	0.84	0.12
Nickel (Ni)	ND	ND	ND	ND	0.1	0.98	0.14
Tin (Sn)	ND	ND	ND	ND	10	700	100
Vanadium (V)	ND	ND	ND	ND	0.005	0.07	0.01
Zinc (Zn)	ND	ND	ND	ND	1	35	5
Antimony (Sb)	ND	ND	ND	ND	0.01	0.28	0.04
Arsenic (As)	ND	ND	ND	ND	0.001	0.014	0.002
Barium (Ba)	ND	ND	ND	ND	0.1	8.4	1.2
Beryllium (Be)	ND	ND	ND	ND	0.01	0.07	0.01
Cadmium (Cd)	ND	ND	ND	ND	0.001	0.035	0.005
Lead (Pb)	ND	ND	ND	ND	0.005	0.070	0.010
Lithium (Li)	ND	ND	ND	ND	0.010	0.336	0.048
Mercury (Hg)	ND	ND	ND	ND	0.003	0.021	0.003
Thallium (Tl)	ND	ND	ND	ND	0.001	0.007	0.001
Zirconium (Zr)	ND	ND	ND	ND	0.1	14	2
Magnesium(Mg)	ND	ND	ND	ND	1	-	-
Titanium(Ti)	ND	ND	ND	ND	1	-	-

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Tests Conducted

ND = Not detected (less than detection limit)

Remark：The submitted sample is a repeated use article. The migration test was carried out three times on the same article. The sum of the results of the first and second tests should not exceed seven times the limit (Result 1st test + Result 2nd test < 7 * limit) and the Result 3rd test shouldn't exceed the limit.

Ratio of food contact surface area to volume of component (8) used to establish the compliance of material or article = 0.6 dm^2 : 100 mL.

Tested component(s)：See component list in the last section of this report.

3 Metal-ions Release

With reference to ISO 4531:2022, 3 successive release tests were taken and 3rd released test solutions were analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) or Inductively Coupled Plasma Mass Spectrometer (ICP-MS).

I. Test Condition:

Simulant : 3% acetic acid Temperature: 70 °C Time: 2 hours

II. Test Result:

Tested component(9):

Elements	Specimen (1) (μg/ l)	Specimen (2) (μg/ l)	Average (μg/ l)	Detection limit (μg/ l)	Limit (μg/l)
Aluminium (Al)	169	202	186	100	1000
Silver (Ag)	ND	ND	ND	10	80
Arsenic (As)	ND	ND	ND	1	2
Barium (Ba)	ND	ND	ND	120	1200
Cadmium (Cd)	ND	ND	ND	1	5
Cobalt (Co)	ND	ND	ND	10	100
Chromium (Cr)	ND	ND	ND	25	250
Copper (Cu)	ND	ND	ND	400	4000
Lithium (Li)	ND	ND	ND	48	480
Manganese (Mn)	ND	ND	ND	180	1800
Molybdenum(Mo)	ND	ND	ND	10	120
Nickel (Ni)	ND	ND	ND	10	140
Lead (Pb)	ND	ND	ND	2	10
Antimony (Sb)	ND	ND	ND	5	40
Vanadium (V)	ND	ND	ND	1	10
Zinc (Zn)	ND	ND	ND	500	5000

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Tested component (10) :

Elements	Specimen (1) (µg/ l)	Specimen (2) (µg/ l)	Average (µg/ l)	Detection limit (µg/ l)	Limit (µg/l)
Aluminium (Al)	678	1284	981	100	1000
Silver (Ag)	ND	ND	ND	10	80
Arsenic (As)	ND	ND	ND	1	2
Barium (Ba)	ND	247	184	120	1200
Cadmium (Cd)	1	2	2	1	5
Cobalt (Co)	30	59	44	10	100
Chromium (Cr)	ND	ND	ND	25	250
Copper (Cu)	ND	ND	ND	400	4000
Lithium (Li)	ND	ND	ND	48	480
Manganese (Mn)	225	300	262	180	1800
Molybdenum(Mo)	ND	ND	ND	10	120
Nickel (Ni)	35	109	72	10	140
Lead (Pb)	ND	ND	ND	2	10
Antimony (Sb)	ND	ND	ND	5	40
Vanadium (V)	ND	ND	ND	1	10
Zinc (Zn)	ND	ND	ND	500	5000

ND = Not Detected (less than detection limit)

Tested Component(s): See component list in the last section of this report

Component list:

Sequence No.	Test Component No.	Test Component Description(s)
SN1	8.	Silver color stainless steel (rim of cup) (sample received date: July 24, 2025).
SN2	9.	White enamel with silver color stainless steel and black coating (internal surface of cup) (sample received date: July 24, 2025).
SN3	10.	White enamel with silver color stainless steel and black coating (lip & rim of cup) (sample received date: July 24, 2025).

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End of report

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