

Date:

Aug 05, 2025

Applicant: FLASHBAY ELECTRONICS

BUILDING2, JIXUN INDUSTRIAL PARK, XINJIAO, DONG'AO VILLAGE, SHATIAN TOWN, HUIYANG DISTRICT, HUIZHOU CITY, GUANGDONG PROVINCE,

P. R. CHIŃA

Sample Description:

Sixteen (16) pieces of submitted sample said to be:
Item Name : Drinkwares
Item No. : Trail (TRL)
Country of Origin : China

Country of Origin : China
Date Sample Received : Jun 11, 2025 & Jul 24, 2025
Testing Period : Jun 11, 2025 ~ Aug 05, 2025



Tests conducted:

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

To be continued



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Conclusion:

Tested sample Tested components of submitted samples

Standard/Testing Item British Standard BS 6748: 1986+A1: 2011 on leachable Lead and Cadmium content

EDQM Technical Guide on Metals and Alloys Used in Food Contact Materials and Articles, 2024, 2nd Edition on specific

migration of heavy metal

ISO 4531:2022 on metal-ions release for vitreous and porcelain enamels

Pass

Result

Pass

Pass

Authorized by:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch, Hardlines

Victor T.J *W*√ang 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







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):							
<u>Elements</u>	Result 1 st test (mg/kg)	Result 2 nd test (mg/kg)	Result 1 st test+Result 2 nd test (mg/kg)	Result 3 rd test (mg/kg)	Detection Limit (mg/kg)	7*Limit (mg/kg)	<u>Limit</u> (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 (TI)	ND	ND	ND	ND	0.001	0.007	0.001
Zirconium (Źr)	ND	ND	ND	ND	0.1	14	2
Magnesium(Mg)	ND	ND	ND	ND	1	ı	•
Titanium(Ti)	ND	ND	ND	ND	1	-	-



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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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).

Test Condition:

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

Test Result:

Tested component(9):

<u>Elements</u>	Specimen (1) (μg/ l)	Specimen (2) (µg/ l)	<u>Average</u> (μg/ l)	Detection limit (µg/ I)	<u>Limit</u> (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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Tests Conducted

Tested component (10)

rested component (10) .				
Elements	Specimen (1) (µg/ I)	Specimen (2) (μg/ I)	<u>Average</u> (μg/ l)	Detection limit (µg/ I)	<u>Limit</u> (μg/l)
Aluminium (AI)	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).

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $\mathbf{w} = \mathbf{U}$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shenzhen Limited, Guangzhou Branch.



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