

TEST REPORT

APPLICANT : Hebei forrest Trading Co., Ltd.

ADDRESS : RM.709 Shangde Int'l Building No.8 Kangle Street
Shijiazhuang China

SAMPLE DESCRIPTION : CAST IRON TEAPOT

MODEL NO. : FRS-004

MATERIAL NO. : cast iron

PO NO. : 20BP62

PRODUCT MATERIAL : cast iron

SUPPLIER : HEBEI FORREST TRADING CO.,LTD.
RM 709 SHANGDE INT'L BUILDING NO.8 KANGLE
STREET SHIJIAZHUANG CHINA

BUYER : The Exotic Teapot Limited
142 Tuckton Road
Bournemouth
Dorset BH6 3JX
United Kingdom

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : UK

SAMPLE RECEIVED DATE : 20-May-2020

TURN AROUND TIME : 20-May-2020 to 29-May-2020

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	RESULT
Sensorial Examination Odour and Taste Test	Pass
Specific Release of Heavy Metals	Pass
Release of Heavy Metals	Pass

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.sh@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to chinacomplaint@eurofins.com and referring to this report number.

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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd

Joyce Liu
Lab Manager

SAMPLE PHOTO



EFSH20051285-CG-01

TO BE CONTINUED

COMPONENT LIST

Component No.	Component
1	Black enamel body part
2	Silver metal filter

TO BE CONTINUED

TEST RESULT

Sensorial Examination Odour and Taste Test

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31, Regulation (EC) No. 1935/2004 of the European Parliament and of the Council and BfR recommendation.
Sensorial examination odour and taste test

Test Method : Robinson's test with reference to DIN 10955:2004-06
Odour test condition: 40°C 24hrs
Taste test condition: 40°C 24hrs
Test media: Distilled water
No. of panelist: 6

Test Item(s)	Limit	Test Result	
		1	2
Sensorial examination odour (Point scale)	2.5	0	0
Sensorial examination taste (Point scale)	2.5	0	0

Scale evaluation:

- 0: No perceptible odour
- 1: Odour just perceptible (still difficult to define)
- 2: Moderate odour
- 3: Moderately strong odour
- 4: Strong odour

TO BE CONTINUED

TEST RESULT

Specific Release of Heavy Metals

Test Requested : In accordance with CM/Res (2013)9 on metals and alloys used in food contact materials and articles.

Test Method : Samples were prepared at specific condition, analysed by using ICP-OES/ICP-MS.

Simulant Used: 0.5% citric acid

Test Condition: 40°C 24hrs

Test Item(s)	Unit	MDL	Result			
			2			
			1 st + 2 nd Migration		3 rd Migration	
			Result	7xSRL ^{*2}	Result	SRL ^{*1}
Aluminum (Al)	mg/kg	0.5	2.2	35	1.1	5
Antimony (Sb)	mg/kg	0.01	ND	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.05	0.66	1.75	ND	0.25
Cobalt (Co)	mg/kg	0.005	ND	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	ND	280	ND	40
Magnesium(Mg)	mg/kg	0.1	1.1	-	4.0	-
Manganese (Mn)	mg/kg	0.2	0.3	12.6	ND	1.8
Molybdenum (Mo)	mg/kg	0.01	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.01	0.08	0.98	ND	0.14
Silver (Ag)	mg/kg	0.01	ND	0.56	ND	0.08
Tin ^{*3} (Sn)	mg/kg	5	ND	700	ND	100
Titanium(Ti)	mg/kg	0.1	ND	-	ND	-
Vanadium (V)	mg/kg	0.001	ND	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Arsenic (As)	mg/kg	0.0005	ND	0.014	ND	0.002
Barium (Ba)	mg/kg	0.1	ND	8.4	ND	1.2
Beryllium (Be)	mg/kg	0.001	ND	0.07	ND	0.01
Cadmium (Cd)	mg/kg	0.001	ND	0.035	ND	0.005
Lead (Pb)	mg/kg	0.001	ND	0.07	ND	0.01
Lithium (Li)	mg/kg	0.005	ND	0.336	ND	0.048
Mercury (Hg)	mg/kg	0.0005	ND	0.021	ND	0.003
Thallium (Tl)	mg/kg	0.00005	ND	0.0007	ND	0.0001

Note:

- (1) mg/kg = milligram per kilogram
- (2) MDL = method detection limit
- (3) ND = not detected (<MDL)
- (4) SRL = Specific Release Limit
- (5) *1 Compliance is established on the result from the third migration test for repeated used articles.
- (6) *2 Meantime, the sum of the results of the first and second tests should not exceed 7 times the SRL
- (7) *3 Except in field of application under Regulation (EC) No.1881/2006.(canned food container)
- (8) Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Release of Heavy Metals

Test Request: To determine Release of Heavy Metals in accordance with § 30 and 31 of German Food and Feed Code (LFGB), and BfR recommendation
 Test Method: With reference to ISO 4531-2018 for sample preparation, analysis was performed by ICP-MS
 Test Condition: 24 hours at 40°C
 Simulant Used: 3% acetic acid

Tested Item(s)	Unit	Limit	MDL	Result
				1
Aluminum (Al)	µg/L	5000	500	ND
Silver (Ag)	µg/L	80	10	ND
Arsenic (As)	µg/L	2	1	ND
Barium (Ba)	µg/L	1200	100	ND
Cadmium (Cd)	µg/L	5	1	ND
Cobalt (Co)	µg/L	100	5	ND
Chromium (Cr)	µg/L	250	50	ND
Copper (Cu)	µg/L	4000	500	ND
Lithium (Li)	µg/L	480	5	ND
Manganese (Mn)	µg/L	1800	200	337
Molybdenum (Mo)	µg/L	120	10	ND
Nickel (Ni)	µg/L	140	10	ND
Lead (Pb)	µg/L	10	1	ND
Antimony (Sb)	µg/L	40	10	ND
Vanadium (V)	µg/L	10	1	ND
Zinc (Zn)	µg/L	5000	500	ND

Remark:

- 1 µg/L = microgram per liter
- 2 ND = not detected, less than MDL
- 3 MDL = method detection limit

END OF THE REPORT