

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 COOKWARE

ITEM NO. : FRS-211/FRS-247 /FRS-2401/FRS-880N/FRS-314

MANUFACTURER : Hebei Forrest Casting Co., Ltd.

PRODUCT MATERIAL : Cast iron vegetable oil coating

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : EUROPE

SAMPLE RECEIVED DATE : 17-Oct-2019

SAMPLE RESUBMISSION DATE : 23-Dec-2019

TURN AROUND TIME : 17-Oct-2019 to 26-Dec-2019

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

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

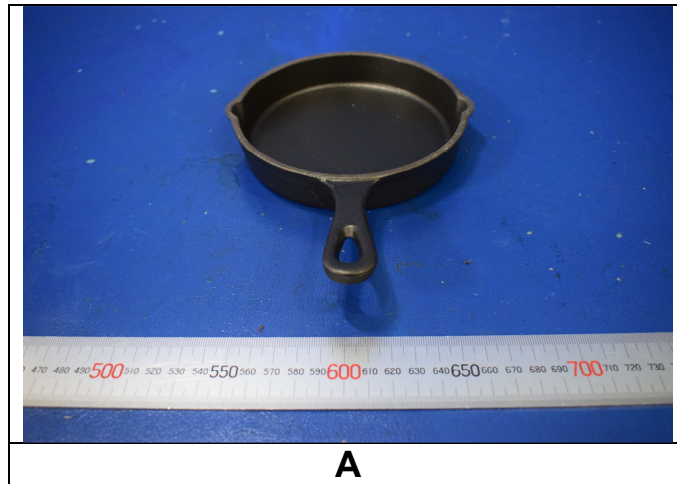
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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

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

Lemon Zhang
Chemical Lab Supervisor

TEST SAMPLE PHOTO



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TO BE CONTINUED

REFERENCE SAMPLE PHOTO



The reference sample(s) has not been tested in current report, but according to customer's request, the picture has also been included. For sample tested in current report, please refer to "Test sample photo".

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TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Sample No.
1	Black cast iron pan	A

*** 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: 100°C 2hrs

Test Item(s)	Unit	MDL	Result			
			1			
			1 st + 2 nd Migration		3 rd Migration	
			Result	7xSRL ^{*2}	Result	SRL ^{*1}
Aluminum (Al)	mg/kg	0.5	4.1	35	0.8	5
Antimony (Sb)	mg/kg	0.01	ND	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.05	0.36	1.75	0.09	0.25
Cobalt (Co)	mg/kg	0.005	0.017	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	2.4	28	0.5	4
Iron (Fe)	mg/kg	5	14	280	7	40
Magnesium(Mg)	mg/kg	0.1	1.4	-	0.5	-
Manganese (Mn)	mg/kg	0.2	0.9	12.6	0.2	1.8
Molybdenum (Mo)	mg/kg	0.01	0.02	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.01	0.16	0.98	0.04	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	2.0	-	0.6	-
Vanadium (V)	mg/kg	0.001	0.006	0.07	0.002	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	0.1	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	0.055	0.336	0.011	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

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 and BfR recommendation.
Sensorial examination odour and taste test

Test Method : Robinson's test with reference to DIN 10955:1983 (2004)
Odour test condition: 100°C 2hours
Taste test condition: 100°C 2hours
Test media: Distilled water
No. of panelist: 6

Test Item(s)	Limit	Result
		A
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

*** END OF THE REPORT***