

# TEST REPORT

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Applicant : HEBEI BIGKING COOKWARE CO.,LTD.  
Address :

Below information submitted by the applicant:

Product Name : CAST IRON POT  
Model : MDL248  
Model may cover : MDL249/MDL250/MDL254  
Reference info. : /  
Manufacturer info. : /  
Supplier info. : /  
Buyer info. : /  
Country of Destination : POLAND  
Country of Origin : China

Sample Received : 02.23, 2024  
Test Period : 02.23, 2024 - 02.29, 2024  
Test Requirement : Refer to next pages  
Test Method : Refer to next pages  
Test Result : Refer to next pages  
Test Conclusion : Refer to next pages



Signed for and on behalf of  
Jordan Wang, General Manager  
BU Chemical Compliance  
TUV THURINGEN (SHANGHAI) CO., LTD.  
Location: Shanghai

## TÜV THÜRINGEN CHINA

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VERSION: 2023.09.01

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## RESULT SUMMARY

Food contact materials in accordance with General Requirement (Article 3) in EU Regulation No. 1935/2004, Technical Guide on Metals and Alloys used in food contact materials and articles of the 1<sup>st</sup> edition in 2013, selected test items as below:

Test Items	Verdict
1. Sensory odor and taste test	PASS
2. Leachable heavy metal for metal materials	PASS

### TESTS CARRIED BY:

LAB ID: TTSLCM001; ADD.: ROOM 501, BUILDING 29-1, NO.259, ROAD SHIBEI GAOXIN, CHONGCHUAN, NANTONG, JIANGSU, CHINA

## SAMPLE DESCRIPTION

Sample description : 1#. CAST IRON POT

## TEST RESULTS

### 1. Sensorial examination odor and taste test

Test Method: sensory test with reference to DIN 10955:2023

Test Method: sensory test with reference to ISO 4120:2007

Test Items	Test Results	Permissible Limit
	Whole product	
Test Media	Distilled water	---
Temperature, °C	100.0	---
Contact Time, hour	2.0	---
Sensorial examination odor	0.5	2.5, max
Sensorial examination taste	0	2.5, max
Comment(s)	PASS	---

Scale evaluation:

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

### 2. Special requirements for Metals

#### 2.1. Specific release heavy metals – CM/Res(2013)9

Test method: Sample prepared with reference to Technical Guide on Metals and Alloys used in food contact materials and articles of the 1<sup>st</sup> edition in 2013 (CM/Res(2013)9) and by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Optical Emission Spectrometer with Mass Detector (ICP-MS) analysis.

Test Condition: 100.0°C/2.0hours with 0.5% citric acid (5g/L)

Extractable Elements	MDL	Test Results				7*Limit	Unit	mg/kg
		1 <sup>st</sup> Result	2 <sup>nd</sup> Result	1 <sup>st</sup> + 2 <sup>nd</sup> Result	3 <sup>rd</sup> Result		Limit	
		1#	1#	1#	1#			
Silver, Ag	0.01	n.d.	n.d.	n.d.	0.56	n.d.	0.08	
Aluminum, Al	0.01	n.d.	n.d.	n.d.	35	n.d.	5	
Chromium, Cr	0.01	n.d.	n.d.	n.d.	1.75	n.d.	0.25	
Cobalt, Co	0.01	n.d.	n.d.	n.d.	0.14	n.d.	0.02	
Copper, Cu	0.01	n.d.	n.d.	n.d.	28	n.d.	4	

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Extractable Elements	MDL	1 <sup>st</sup> Result	2 <sup>nd</sup> Result	1 <sup>st</sup> + 2 <sup>nd</sup> Result	7*Limit	Unit	mg/kg
		1#	1#	1#		3 <sup>rd</sup> Result	Limit
		1#	1#	1#		1#	1#
Iron, Fe	0.01	n.d.	n.d.	n.d.	280	n.d.	40
Magnesium, Mg	0.01	n.d.	n.d.	n.d.	---	n.d.	---
Manganese, Mn	0.01	n.d.	n.d.	n.d.	12.6	n.d.	1.8
Molybdenum, Mo	0.01	n.d.	n.d.	n.d.	0.84	n.d.	0.12
Nickel, Ni	0.01	n.d.	n.d.	n.d.	0.98	n.d.	0.14
Tin, Sn	0.01	n.d.	n.d.	n.d.	700	n.d.	100
Titanium, Ti	0.01	n.d.	n.d.	n.d.	---	n.d.	---
Vanadium, V	0.01	n.d.	n.d.	n.d.	0.07	n.d.	0.01
Zinc, Zn	0.01	n.d.	n.d.	n.d.	35	n.d.	5
Arsenic, As	0.001	n.d.	n.d.	n.d.	0.014	n.d.	0.002
Barium, Ba	0.01	n.d.	n.d.	n.d.	8.4	n.d.	1.2
Beryllium, Be	0.01	n.d.	n.d.	n.d.	0.07	n.d.	0.01
Cadmium, Cd	0.001	n.d.	n.d.	n.d.	0.035	n.d.	0.005
Mercury, Hg	0.001	n.d.	n.d.	n.d.	0.021	n.d.	0.003
Lithium, Li	0.01	n.d.	n.d.	n.d.	0.336	n.d.	0.048
Lead, Pb	0.001	n.d.	n.d.	n.d.	0.07	n.d.	0.010
Antimony, Sb	0.01	n.d.	n.d.	n.d.	0.28	n.d.	0.04
Thallium, Tl	0.0001	n.d.	n.d.	n.d.	0.0007	n.d.	0.0001

Note: The submitted sample/component 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 1<sup>st</sup> test + Result 2<sup>nd</sup> test <7\* limit) and the Result 3<sup>rd</sup> should not exceed the limit.

Note,

% , percentage; mg, milligrams; g, grams; kg, kilograms  
 mg/kg = milligrams per kilograms; mg/L = milligrams per litre  
 0.1% = 1000mg/kg = 1000mg/L  
 < = less than; > = greater than  
 MDL = method detection limit  
 n.d. = not detected, < MDL  
 n.a. = not applicable  
 n.r. = not required  
 EX = abbr. of Exempted

\*\*\*\*\* To be continued \*\*\*\*\*

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## SAMPLE IMAGE



*Tested sample*



*Submitted samples*

\*\*\*\*\* END OF REPORT \*\*\*\*\*