

## Test Report

Number: GZHH00370658

Applicant: BAREBONES SYSTEMS,LLC.  
1215 EAST WILMINGTON AVENUE -STE.  
140 SALT LAKE CITY UT 84106

Date: Jul 16, 2020

Attn: BECK YU

### Sample Description:

Seven (7) pieces of submitted sample said to be :

Item Name : **Enamel Sauce Pan**  
Item No. : **CKW-377**  
Date Sample Received : Jul 02, 2020  
Testing Period : Jul 02, 2020 to Jul 09, 2020

**GZHH00370658**



### Tests conducted:

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

To be continued



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### Conclusion:

Tested Article  
Tested component of  
Submitted samples

Standard  
European Council Directive 84/500/EEC Article 2 and  
Commission Directive 2005/31/EC and Regulation  
1935/2004 on leachable Lead and Cadmium released  
from ceramic article intended to come into contact with  
foodstuff

Result  
See Comment

EU Technical Guide Council of Europe Resolution  
CM/Res(2013)9 on metals and alloys Used in Food  
Contact Materials and Articles on specific migration  
of heavy metal


Pass

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Comment: The scope of the standard was not applicable to the submitted samples. Testing was conducted with  
reference to the test method and requirements as stated.

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

  
Victor T.J. Wang  
Assistant General Manager



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Intertek Testing Services Shenzhen Limited, Guangzhou Branch

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### Tests Conducted

#### 1 Leachable Lead and Cadmium Content - Internal Surface

As per European Council Directive 84/500/EEC and Commission Directive 2005/31/EC by Atomic Absorption Spectrophotometric (AAS) analysis.

Test condition: 4% acetic acid, 20-24°C, 24 hours

Tested Sample/ component(1):

Tested Specimen	Leaching Volume (ml)	Result	
		Lead	Cadmium
		mg/l	mg/l
(1)	1570	ND(<0.05)	ND(<0.03)
(2)	1570	ND(<0.05)	ND(<0.03)
(3)	1570	ND(<0.05)	ND(<0.03)
(4)	1570	ND(<0.05)	ND(<0.03)
Limit (category 2/3) :		4 / 1.5	0.3 / 0.1

Tested Sample/ component(2):

Tested Specimen	Surface Area (dm <sup>2</sup> )	Leaching Volume (ml)	Result			
			Lead		Cadmium	
			mg/dm <sup>2</sup>	mg/l	mg/dm <sup>2</sup>	mg/l
(1)	2.54	300	ND(<0.05)	ND(<0.05)	ND(<0.03)	ND(<0.03)
(2)	2.54	300	ND(<0.05)	ND(<0.05)	ND(<0.03)	ND(<0.03)
(3)	2.54	300	ND(<0.05)	ND(<0.05)	ND(<0.03)	ND(<0.03)
(4)	2.54	300	ND(<0.05)	ND(<0.05)	ND(<0.03)	ND(<0.03)
Average :			ND(<0.05)	ND(<0.05)	ND(<0.03)	ND(<0.03)
Limit (category 1/3) :			0.8	1.5	0.07	0.1

ND = Not detected

Tested Components : See component list in last section of this report.

#### 2 Release Testing on Metals and Alloys Used in Food Contact Materials and Articles

With reference to EU Technical Guide "Council of Europe Resolution CM/Res(2013)9 on metals and alloys Used in Food Contact Materials and Articles". 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: 100 °C Time: 4 hours

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### Tests Conducted

#### II. Test Result:

Food simulant: Citric acid (5 g/L)

Tested component (3) :							
Elements	Result 1 <sup>st</sup> test (mg/kg)	Result 2 <sup>nd</sup> test (mg/kg)	Result 1 <sup>st</sup> test+Result 2 <sup>nd</sup> test (mg/kg)	Result 3 <sup>rd</sup> test (mg/kg)	Reporting 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 (Cr)	0.10	0.04	0.14	0.02	0.02	1.75	0.250
Cobalt (Co)	ND	ND	ND	ND	0.01	0.14	0.02
Copper (Cu)	ND	ND	ND	ND	0.5	28	4
Iron (Fe)	2	ND	2	ND	1	280	40
Manganese (Mn)	ND	ND	ND	ND	0.1	12.6	1.8
Molybdenum (Mo)	ND	ND	ND	ND	0.02	0.84	0.12
Nickel (Ni)	0.2	ND	0.2	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)	0.001	ND	0.001	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	0.0001	0.0007	0.0001
Magnesium (Mg)	ND	ND	ND	ND	1	-	-
Titanium (Ti)	ND	ND	ND	ND	1	-	-

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## Tests Conducted

Tested component (4) :							
Elements	Result 1 <sup>st</sup> test (mg/kg)	Result 2 <sup>nd</sup> test (mg/kg)	Result 1 <sup>st</sup> test+Result 2 <sup>nd</sup> test (mg/kg)	Result 3 <sup>rd</sup> test (mg/kg)	Reporting Limit (mg/kg)	7*Limit (mg/kg)	Limit (mg/kg)
Silver (Ag)	ND	ND	ND	ND	0.05	0.56	0.08
Aluminium (Al)	1	ND	1	ND	1	35	5
Chromium (Cr)	0.10	0.04	0.14	0.02	0.02	1.75	0.250
Cobalt (Co)	ND	ND	ND	ND	0.01	0.14	0.02
Copper (Cu)	ND	ND	ND	ND	0.5	28	4
Iron (Fe)	2	ND	2	ND	1	280	40
Manganese (Mn)	ND	ND	ND	ND	0.1	12.6	1.8
Molybdenum (Mo)	ND	ND	ND	ND	0.02	0.84	0.12
Nickel (Ni)	0.2	ND	0.2	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
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Cadmium (Cd)	0.001	ND	0.001	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	0.0001	0.0007	0.0001
Magnesium (Mg)	ND	ND	ND	ND	1	-	-
Titanium (Ti)	ND	ND	ND	ND	1	-	-

ND = Not detected (less than reporting 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 1<sup>st</sup> test + Result 2<sup>nd</sup> test < 7 \* limit) and the Result 3<sup>rd</sup> test shouldn't exceed the limit.

Ratio of food contact surface area to volume of component (3) used to establish the compliance of material or article = 0.18 dm<sup>2</sup> : 30 mL.

Ratio of food contact surface area to volume of component (4) used to establish the compliance of material or article = 0.18 dm<sup>2</sup> : 30 mL.

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

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#### Component list :

- (1) Metal with grey enamel (body of pan).
- (2) Metal with grey enamel (lid of pan).
- (3) Copper color treated stainless steel (binding of body of pan).
- (4) Copper color treated stainless steel (binding of lid of pan).

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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  $w = U$ ) except designation from the customer, regulation or test specification.*

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