

Test Report

Number: SZHH01416450

Applicant: TEST RITE INTERNATIONAL CO., LTD.
1,2,5F NO.23, XINHU 3RD RD, NEIHU
DIST 114 TAIWAN (R.O.C.)

Date: Nov 28, 2019

Attn: MELISSA.LV

Sample Description:

One (1) style of submitted sample said to be :
Item Name : **Tongs-Stainless Silicone-Tipped 12in.**
Item No. : **BB31518E / 116857.**
Vendor : Yangjiang Hosin Trading Co., Ltd.
Buyer : Big Green Egg.
Country of Origin : China.
Date Sample Received : Nov 14, 2019.
Testing Period : Nov 14, 2019 ~ Nov 27, 2019.



Tests conducted:

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



Test Report

Number: SZHH01416450

Conclusion:

Regarding the tested parameters and based on the provided material information, the submitted sample complied with the food contacting requirements for German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 & 31 , Regulation (EC) 1935/2004.

Based on the assessment of the submitted sample and the information provided, the following tests had been conducted :

<u>Tested parameters</u>	<u>Result</u>
1) Sensory test	Pass
2) Determination of heavy metal release on metal	Pass

Conclusion:

<u>Tested Sample</u>	<u>Standard</u>	<u>Result</u>
Tested components of submitted samples	Council Europe Resolution AP (2004) 5 on Silicones Used for Food Contact Applications on Overall Migration	Pass
	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

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Rachel L. Guo
General Manager



Test Report

Number: SZHH01416450

Tests Conducted

1 Overall Migration Test for Silicones

As per Council Europe Resolution AP (2004) 5 on silicones used for food contact applications, selection of test condition & food simulants by Commission Regulation (EU) No. 10/2011 and its amendments.

I. Test condition:

<u>Aqueous food simulant:</u>	
<u>Test no.</u>	<u>Time and temperature</u>
OM5	2 hours at 100 °C or reflux
OM6	4 hours at 100 °C or reflux

<u>Fatty food simulant:</u>	
<u>Test no.</u>	<u>Time and temperature</u>
OM5	2 hours at 100 °C

II. Test results

<u>Food Simulant</u>	<u>Result(mg/dm²)</u>	<u>Reporting Limit</u>	<u>Limit</u>
	<u>(1)</u>	<u>(mg/dm²)</u>	<u>(mg/dm²)</u>
10% (v/v) Ethanol	ND	1	10
3% (w/v) Acetic acid	2	1	10
Olive oil	8	1	10

ND = Not detected(less than reporting limit)

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



Test Report

Number: SZHH01416450

Tests Conducted

2 Sensory Evaluation

With reference to §64 LFGB L00.90-6.

Sample was cleaned according to the product's instruction manual or in the absence of such manual with water. Food simulant was filled in the sample under below mentioned time and temperature. Odour and taste was evaluated with 6 panelists using control sample of food simulant.

I. Test condition:

Food simulant
Water

Test temperature
100°C

Test duration
2hours

II. Result:

<u>Test Item</u>	<u>Result</u>	<u>Limit</u>
	(2)	
Appearance of simulant	Clear and colourless	Clear and colourless
Odour of simulant	0.5	< 3.0 (No significant deterioration)
Taste of simulant	0.5	< 3.0 (No significant deterioration)

Evaluation Scale: 0= no aberration, neutral
1= very slight deterioration, barely perceivable
2= slight deterioration
3= significant deterioration
4= strong deterioration



Test Report

Number: SZHH01416450

Tests Conducted

3 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: 2hours

II. Test Result:

Food simulant: Citric acid (5 g/L)

Tested component (2) :							
Elements	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)	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)	0.02	0.02	0.04	ND	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)	ND	ND	ND	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)	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 (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)



Test Report

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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 (2) used to establish the compliance of material or article = 0.6dm² : 375mL.

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

Component list:

- (1) Green silicone (tongs).
- (2) Silver color stainless steel (tongs).

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 (APPENDIX B – Example 2) except designation from the customer, regulation or test specification.

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