Test Report Number: SZHH01391562S1

Applicant: KOOPMAN INTERNATIONAL B.V
DISTELWEG 88 AMSTERDAM, THE NETHERLANDS

Date: Aug 30, 2019

Attn: QUALITY CONTROL

This is to supersede Report No. SZHH01391562 dated Aug 28, 2019

Sample Description:
One (1) group of submitted sample said to be :

Item Name	:	CAN OPENER
Item No.	:	**CY5654410**
Material	:	Metal wheels (iron with nickel coating)
Date Sample Received	:	Aug 14, 2019 & Aug 23, 2019.
Testing Period	:	Aug 14, 2019 ~ Aug 28, 2019.

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

Conclusion:

Tested Samples	Client's requirement on	Result
Tested component(s) of submitted sample(s)	----Sensory test	Pass
	----Overall migration	Pass
	----Determination of heavy metal release on metal	Pass
	----Heavy metal content on metal	Pass

Authorized by:
For Intertek Testing Services Shenzhen Ltd.

Ben N.L. Lin
General Manager

Intertek Testing Services Shenzhen Ltd.
深圳天祥质量技术服务有限公司

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Tests Conducted

1 Sensory Evaluation

With reference to DIN 10955:2004.

Test Procedure:
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 off-flavour was evaluated with 6 panelists using control sample of food simulant.

I. Test condition:

Water 40°C 0.5 hours

II. Result:

Test Item	Result (1)	Limit
Intensity of odour	0.5	2.5
Intensity of off- flavour	0.5	2.5

Intensity Scale: 0 = No discernible deviation
1 = Barely discernible deviation
2 = Weak deviation
3 = Clear deviation
4 = Strong deviation

Tested component: (1) Silver color metal wheels.

2 Extractable Heavy Metals of Metal Material

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) with reference to ISO 11885:2007 and ISO 17294-2:2003 respectively.

I. Test Condition:

Food Simulant：Citric acid (5 g/L)
Temperature: 40°C Time: 0.5hours

II. Test Result:

Tested component (1) :							
Elements	Result 1st test (mg/kg)	Result 2nd test (mg/kg)	Result 1st test+Result 2nd test (mg/kg)	Result 3rd 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)	ND	ND	ND	ND	0.02	0.7	0.1
Cobalt (Co)	ND	ND	ND	ND	0.01	0.14	0.02
Copper (Cu)	ND	ND	ND	ND	0.5	28	4

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Iron (Fe)	ND	ND	ND	ND	1	280	40
Manganese (Mn)	ND	ND	ND	ND	0.02	0.7	0.1
Molybdenum(Mo)	ND	ND	ND	ND	0.02	0.84	0.12
Nickel (Ni)	ND	ND	ND	ND	0.02	0.7	0.1
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	-	-

Tested Sample：(1) Silver color metal wheels.

3 Overall Migration Test

With reference to Commission Regulation (EU) No. 10/2011 and its amendments.

I. Test condition:

Tested component	Food simulant	Temperature (°C)	Time(hours)
(1)	3% (w/v) Acetic acid	40	0.5

II. Test Results :

Food Simulant	Result(mg/dm²)	Reporting Limit (mg/dm²)	Limit (mg/dm²)
	(1)		
3% (w/v) Acetic acid	5	1	10

Tested components: (1) Silver color metal wheels.

Remark： Ratio of food contact surface area to volume used to establish the compliance of material or article = 1 dm^2 : 100mL.

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4 Heavy Metal Content of Metals

Acid digestion method was used and heavy metal content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg) Tested Component (1)	Reporting Limit (mg/kg)	Limit (mg/kg)
Total Lead (Pb)	ND	10	100
Total Cadmium (Cd)	ND	10	100
Total Arsenic (As)	113	10	300
Cobalt (Co)	52	10	500
Mercury(Hg)	ND	10	100

ND = Not detected

Tested component(s): (1) Silver color metal wheels.

****

End of report

Intertek Testing Services Shenzhen Ltd.
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To: KOOPMAN INTERNATIONAL B.V

Attention: QUALITY CONTROL Date: Aug 30, 2019

Re : Report Revision Notification

Intertek Testing Services Report Number SZHH01391562 Dated Aug 28, 2019

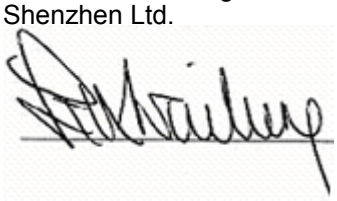
Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report Number, SZHH01391562S1 Dated Aug 30, 2019

Below are revision details:

Report Number	SZHH01391562	SZHH01391562S1
Revise remark	Nil	Typing error

Thank you for your attention.

Authorized by:
For Intertek Testing Services Shenzhen Ltd.



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