



# Test Report

Report No. A2190150781101

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**Applicant** BAGCO ASIA LIMITED

**Address** SUITE 1902, TAMSON PLAZA, 161 WAI YIP STREET, KWUN TONG, KOWLOON, HONG KONG

**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client**

Sample Name	Aluminum Foil for :	1) Non-woven Cooler Bag	2) Polyester Cooler Bag
Material	Aluminum Foil		
Sample state	Foil		
Sample Received Date	Jun. 20, 2019		
Testing Period	Jun. 20, 2019 to Jul. 5, 2019		

**Test Conducted:**

As requested by the applicant. For details refer to next page(s).

Tested by

*Marko Zeng*

Reviewed by

*Kathy Zhou*

Approved by

*Hill Zheng*

Hill Zheng

Technical Manager

Jul. 5, 2019

No. T393399729



Centre Testing International Group Co., Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

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**Executive Summary:**

**TEST REQUEST**

**CONCLUSION**

Refer to (EU) No 10/2011 Commission Regulation on plastic materials and articles intended to come into contact with food and its amendments, and Regulation (EC) No 1935/2004 of the European Parliament on materials and articles intended to come into contact with food

- Overall migration
- Specific migration of heavy metal

**See Page 3**

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\*\*\*\*\* For further details, please refer to the following page(s) \*\*\*\*\*



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**Refer to (EU) No 10/2011 Commission Regulation on plastic materials and articles intended to come into contact with food and its amendments, and Regulation (EC) No 1935/2004 of the European Parliament on materials and articles intended to come into contact with food**

## ▼ Overall migration

Test Method: Refer to BS EN 1186-3:2002

Food Simulant(s): 3% acetic acid; Test Condition: 40°C, 10d

Test Item(s)	Result	MDL	Reference Limit	Unit
	001			
Overall migration	N.D.	3.0	10	mg/dm <sup>2</sup>

Food Simulant(s): 10% ethanol; Test Condition: 40°C, 10d

Test Item(s)	Result	MDL	Reference Limit	Unit
	001			
Overall migration	N.D.	3.0	10	mg/dm <sup>2</sup>

Test Method: Refer to BS EN 1186-14:2002

Food Simulant(s): 95% ethanol(Vegetable oil substitute); Test Condition: 40°C, 10d

Test Item(s)	Result	MDL	Reference Limit	Unit
	001			
Overall migration	N.D.	3.0	10	mg/dm <sup>2</sup>

Food Simulant(s): Iso-octane(Vegetable oil substitute); Test Condition: 20°C, 2d

Test Item(s)	Result	MDL	Reference Limit	Unit
	001			
Overall migration	N.D.	3.0	10	mg/dm <sup>2</sup>

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▼ **Specific migration of heavy metal**

Test Method: Refer to BS EN 13130-1:2004,(EU)No 10/2011,US EPA 6010D:2014

Food Simulant(s): 3% acetic acid; Test Condition: 40°C, 3d

Test Item(s)	Result	MDL	Reference Limit	Unit
	001			
Barium (Ba)	N.D.	0.1	1	mg/kg
Cobalt (Co)	N.D.	0.01	0.05	mg/kg
Copper (Cu)	N.D.	1	5	mg/kg
Iron (Fe)	N.D.	1	48	mg/kg
Lithium (Li)	N.D.	0.1	0.6	mg/kg
Manganese (Mn)	N.D.	0.1	0.6	mg/kg
Zinc (Zn)	N.D.	1	5	mg/kg
Aluminium (Al)	N.D.	0.1	1	mg/kg
Nickel (Ni)	N.D.	0.01	0.02	mg/kg

Food Simulant(s): 10% ethanol; Test Condition: 40°C, 3d

Test Item(s)	Result	MDL	Reference Limit	Unit
	001			
Barium (Ba)	N.D.	0.1	1	mg/kg
Cobalt (Co)	N.D.	0.01	0.05	mg/kg
Copper (Cu)	N.D.	1	5	mg/kg
Iron (Fe)	N.D.	1	48	mg/kg
Lithium (Li)	N.D.	0.1	0.6	mg/kg
Manganese (Mn)	N.D.	0.1	0.6	mg/kg
Zinc (Zn)	N.D.	1	5	mg/kg
Aluminium (Al)	N.D.	0.1	1	mg/kg
Nickel (Ni)	N.D.	0.01	0.02	mg/kg

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Food Simulant(s): 95% ethanol(Vegetable oil substitute); Test Condition: 40°C, 3d

Test Item(s)	Result	MDL	Reference Limit	Unit
	001			
Barium (Ba)	N.D.	0.1	1	mg/kg
Cobalt (Co)	N.D.	0.01	0.05	mg/kg
Copper (Cu)	N.D.	1	5	mg/kg
Iron (Fe)	N.D.	1	48	mg/kg
Lithium (Li)	N.D.	0.1	0.6	mg/kg
Manganese (Mn)	N.D.	0.1	0.6	mg/kg
Zinc (Zn)	N.D.	1	5	mg/kg
Aluminium (Al)	N.D.	0.1	1	mg/kg
Nickel (Ni)	N.D.	0.01	0.02	mg/kg

Food Simulant(s): Iso-octane(Vegetable oil substitute); Test Condition: 20°C, 14.4h

Test Item(s)	Result	MDL	Reference Limit	Unit
	001			
Barium (Ba)	N.D.	0.1	1	mg/kg
Cobalt (Co)	N.D.	0.01	0.05	mg/kg
Copper (Cu)	N.D.	1	5	mg/kg
Iron (Fe)	N.D.	1	48	mg/kg
Lithium (Li)	N.D.	0.1	0.6	mg/kg
Manganese (Mn)	N.D.	0.1	0.6	mg/kg
Zinc (Zn)	N.D.	1	5	mg/kg
Aluminium (Al)	N.D.	0.1	1	mg/kg
Nickel (Ni)	N.D.	0.01	0.02	mg/kg

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**Remark:**

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Single surface testing (by total immersion) method was used and the area-volume ratio (S/V) of overall migration is 10.0 dm<sup>2</sup>/L, the area-volume ratio (S/V) of other migration is 1.13 dm<sup>2</sup>/ 0.188 L.
- The migration test result(s) was(were) based on the migration test of the first time.
- The reduction factor of fatty food simulants is 1.

**Sample/Part Description**

001 Silvery metal

**Note:**

- The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

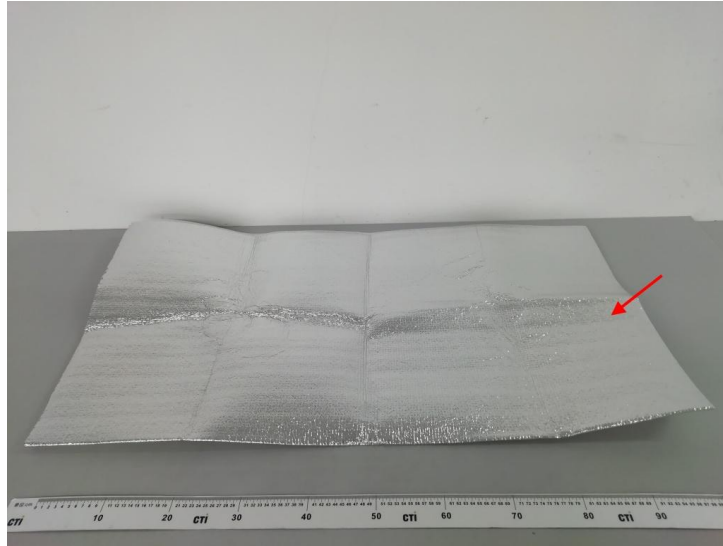
有限公司

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## Photo(s) of the sample(s)



\*\*\* End of Report \*\*\*

### Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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