

# Test Report

Report No. SCL01H069021001

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**Applicant** BAGCO ASIA LIMITED

**Address** SUITE 1902,TAMSON PLAZA,161 WAI YIP STREET, KWUN TONG, HK

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

Sample Name Non-Woven Cooler Bag, Polyester Cooler Bag

Material The aluminum foil

Sample Received Date Aug. 5, 2016

Testing Period Aug. 5, 2016 to Aug. 16, 2016

**Test Requested** As specified by client, to determine the Overall migration and Specific migration of heavy metals in the submitted sample.

**Test Method** Please refer to the following page(s).

**Test Result(s)** Please refer to the following page(s).

Tested by

*Marks Zeng*

Reviewed by

*Cathy Zhang*

Approved by

*Danny Liu*

Date

Aug. 16, 2016

Danny Liu  
Technical Manager

No. T171621006



Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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## Test Method

Test Item(s)	Test Method
Overall migration	With reference to EN 1186-1:2002 Materials and articles in contact with foodstuffs-Plastics-Part 1: Guide to the selection of conditions and test methods for overall migration; EN 1186-3:2002 Materials and articles in contact with foodstuffs-Plastics-Part 3: Test methods for overall migration into aqueous food simulants by total immersion. EN 1186-14:2002 Materials and articles in contact with foodstuffs-Plastics-Part 14: Test methods for 'substitute tests' for overall migration from plastics intended to come into contact with fatty foodstuffs using test media iso-octane and 95 % ethanol.
Specific migration of heavy metals	The sample was analyzed by Inductively Coupled Plasma - Mass Spectroscopy (ICP-MS) after solvent extraction.

## Test Result(s)

### 1. Overall migration

Food Simulant(s)	Test Condition	Test Result	MDL	Reference Limit <sup>#</sup>	Unit
3% (W/V) Acetic Acid Aqueous Solution	70°C, 2h	N.D.	3.0	10	mg/dm <sup>2</sup>
10% (V/V) Ethanol Aqueous Solution	70°C, 2h	N.D.	3.0	10	mg/dm <sup>2</sup>
95% (V/V) Ethanol Aqueous Solution (Rectified Olive Oil Substitute)	60°C, 2h	N.D.	3.0	10	mg/dm <sup>2</sup>
Iso-octane (Rectified Olive Oil Substitute)	40°C, 0.5h	N.D.	3.0	10	mg/dm <sup>2</sup>

Remark:

1. MDL = Method Detection Limit
2. N.D. = Not Detected (<MDL)
3. °C = Degree Celsius
4. h = hour(s)
5. mg/dm<sup>2</sup> = milligram per square decimeter
6. # = Reference limit was cited from Commission Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food.

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## Test Result(s)

### 2. Specific migration of heavy metals

(1) Food Simulant: 3% (W/V) Acetic Acid Aqueous Solution; Test Condition: 70°C, 24h

Test Item(s)	Test Result	MDL	Reference Limit <sup>#</sup>	Unit
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	25	mg/kg

(2) Food Simulant: 10% (V/V) Ethanol Aqueous Solution; Test Condition: 70°C, 24h

Test Item(s)	Test Result	MDL	Reference Limit <sup>#</sup>	Unit
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	25	mg/kg

(3) Food Simulant: 95% (V/V) Ethanol Aqueous Solution; Test Condition: 60°C, 24h

Test Item(s)	Test Result	MDL	Reference Limit <sup>#</sup>	Unit
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	25	mg/kg

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## Test Result(s)

### 2 Specific migration of heavy metals

(4) Food Simulant: Iso-octane; Test Condition: 40°C, 6h

Test Item(s)	Test Result	MDL	Reference Limit <sup>#</sup>	Unit
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	25	mg/kg

Remark:

1. MDL = Method Detection Limit
2. N.D. = Not Detected (<MDL)
3. °C = Degree Celsius
4. h = hour(s)
5. mg/kg = ppm = parts per million
6. # = Reference limit was cited from Commission Regulation (EU) No 10/2011 on plastic materials and articles intended to come into contact with food.

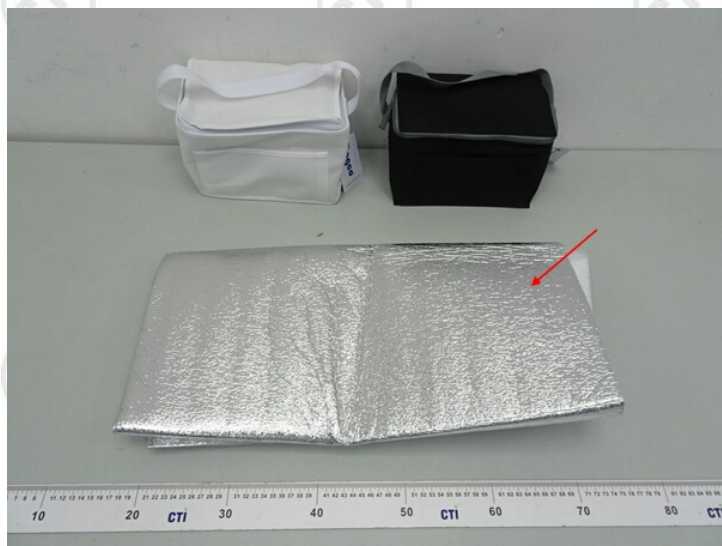
**Tested Sample/Part Description** Silvery aluminium foil

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



\*\*\* End of report \*\*\*

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