



中国认可  
国际互认  
检测  
TESTING  
CNAS L6478



# TEST REPORT

**Reference No.** ..... : WTF18F12133707C

**Applicant** ..... : Mid Ocean Brands B.V.

**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

**Manufacturer** ..... : 106613

**Sample Name** ..... : Slim hip flask

**Model No.** ..... : KC4703

**Test Requested** ..... : According to client's requirement, with reference to Regulation (EU) No 10/2011 with amendments (EU) 2016/1416, (EU) 2017/752, Regulation (EC) No 1935/2004 and Council of Europe Resolution CM/Res(2013)9, , test the specific items.

**Test Conclusion** ..... : **Pass** (Please refer to next pages for details)

**Date of Receipt sample** .... : 2018-12-25

**Date of Test** ..... : 2018-12-25 to 2018-12-29

**Date of Issue** ..... : 2018-12-29

**Test Result** ..... : Please refer to next page (s)

**Remark** ..... : Selected test(s) as requested by applicant

**Remarks:**

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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**Test Results:****1. Overall Migration Test**

| Food Simulant  | Test Condition   | Result (mg/dm <sup>2</sup> ) | MDL (mg/dm <sup>2</sup> ) | Limit (mg/dm <sup>2</sup> ) |
|----------------|------------------|------------------------------|---------------------------|-----------------------------|
|                |                  | No.1                         |                           |                             |
| 3% Acetic Acid | 70°C for 2 hours | 6                            | 3                         | 10                          |
| 50% Ethanol    | 70°C for 2 hours | 4                            | 3                         | 10                          |

## Note:

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2002, BS EN 1186-9: 2002 and BS EN1186-14: 2002.
2. "mg/dm<sup>2</sup>" = milligram per square decimetre
3. "°C" = Celsius degree
4. MDL= Method Detection Limit
5. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416 and (EU) 2017/752.

**2. Specific Migration of heavy metal (Nickel, Aluminium, Barium, Cobalt, Copper, Iron, Lithium, Manganese, Zinc)**

| Test Items                      | Result (mg/kg) | MDL (mg/kg) | Limit (mg/kg) |
|---------------------------------|----------------|-------------|---------------|
|                                 | No.1           |             |               |
| Specific migration of Nickel    | ND             | 0.01        | 0.02          |
| Specific migration of Aluminium | ND             | 0.1         | 1             |
| Specific migration of Barium    | ND             | 0.1         | 1             |
| Specific migration of Cobalt    | ND             | 0.01        | 0.05          |
| Specific migration of Copper    | ND             | 0.1         | 5             |
| Specific migration of Iron      | ND             | 0.1         | 48            |
| Specific migration of Lithium   | ND             | 0.01        | 0.6           |
| Specific migration of Manganese | ND             | 0.01        | 0.6           |
| Specific migration of Zinc      | ND             | 0.1         | 5             |

## Note:

1. Test Method: With reference to BS EN 13130-1: 2004, sample preparation in 3% acetic acid at 70°C for 2 hours, analysis was performed by ICP-OES.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. MDL= Method Detection Limit
4. ND = Not Detected, less than MDL
5. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416 and (EU) 2017/752.

**3. Council of Europe Resolution CM/Res(2013)9-Specific Migration of Heavy Metal**

| Test Items      | 1st+2nd Migration (mg/kg) | MDL (mg/kg) | Limit (mg/kg) |
|-----------------|---------------------------|-------------|---------------|
|                 | No.2                      |             |               |
| Aluminium (Al)  | 0.2                       | 0.2         | 35            |
| Antimony (Sb)   | ND                        | 0.02        | 0.28          |
| Chromium (Cr)   | 0.25                      | 0.04        | 1.75          |
| Cobalt (Co)     | ND                        | 0.02        | 0.14          |
| Copper (Cu)     | 0.2                       | 0.2         | 28            |
| Iron (Fe)       | 4.4                       | 0.4         | 280           |
| Manganese (Mn)  | ND                        | 0.2         | 12.6          |
| Molybdenum (Mo) | ND                        | 0.02        | 0.84          |
| Nickel (Ni)     | ND                        | 0.02        | 0.98          |
| Silver (Ag)     | ND                        | 0.02        | 0.56          |
| Tin (Sn)        | ND                        | 0.2         | 700           |
| Vanadium (V)    | ND                        | 0.01        | 0.07          |
| Zinc (Zn)       | 0.2                       | 0.2         | 35            |
| Arsenic (As)    | ND                        | 0.002       | 0.014         |
| Barium (Ba)     | ND                        | 0.2         | 8.4           |
| Beryllium (Be)  | ND                        | 0.01        | 0.07          |
| Cadmium (Cd)    | ND                        | 0.002       | 0.035         |
| Lead (Pb)       | 0.01                      | 0.01        | 0.07          |
| Lithium (Li)    | ND                        | 0.01        | 0.336         |
| Mercury (Hg)    | ND                        | 0.002       | 0.021         |
| Thallium (Tl)   | ND                        | 0.0002      | 0.0007        |
| Magnesium (Mg)  | ND                        | 0.2         | --            |
| Titanium (Ti)   | ND                        | 0.02        | --            |



| Test Items      | 3rd Migration (mg/kg) | MDL (mg/kg) | Limit (mg/kg) |
|-----------------|-----------------------|-------------|---------------|
|                 | No.2                  |             |               |
| Aluminium (Al)  | ND                    | 0.1         | 5             |
| Antimony (Sb)   | ND                    | 0.01        | 0.04          |
| Chromium (Cr)   | 0.04                  | 0.02        | 0.25          |
| Cobalt (Co)     | ND                    | 0.01        | 0.02          |
| Copper (Cu)     | ND                    | 0.1         | 4             |
| Iron (Fe)       | 0.5                   | 0.2         | 40            |
| Manganese (Mn)  | ND                    | 0.1         | 1.8           |
| Molybdenum (Mo) | ND                    | 0.01        | 0.12          |
| Nickel (Ni)     | 0.02                  | 0.01        | 0.14          |
| Silver (Ag)     | ND                    | 0.01        | 0.08          |
| Tin (Sn)        | ND                    | 0.1         | 100           |
| Vanadium (V)    | ND                    | 0.005       | 0.01          |
| Zinc (Zn)       | ND                    | 0.1         | 5             |
| Arsenic (As)    | ND                    | 0.001       | 0.002         |
| Barium (Ba)     | ND                    | 0.1         | 1.2           |
| Beryllium (Be)  | ND                    | 0.005       | 0.01          |
| Cadmium (Cd)    | ND                    | 0.001       | 0.005         |
| Lead (Pb)       | ND                    | 0.005       | 0.01          |
| Lithium (Li)    | ND                    | 0.005       | 0.048         |
| Mercury (Hg)    | ND                    | 0.001       | 0.003         |
| Thallium (Tl)   | ND                    | 0.0001      | 0.0001        |
| Magnesium (Mg)  | ND                    | 0.1         | --            |
| Titanium (Ti)   | ND                    | 0.01        | --            |

**Note:**

1. Test Method: With reference to BS EN 13130-1: 2004, analysis was performed by ICP-OES and ICP-MS.
2. Test Condition and simulant: Sample(s) were migrated with 5g/L citric acid at 70°C for 2 hours.
3. "mg/kg" = milligram per kilogram of foodstuff in contact with
4. MDL = Method Detection Limit
5. ND = Not Detected, less than MDL
6. "--" = Not regulated
7. The specification was quoted from Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9.

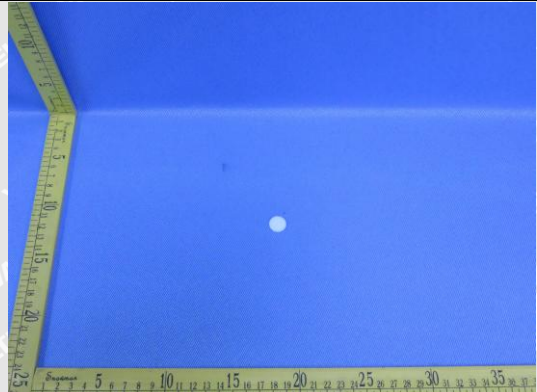
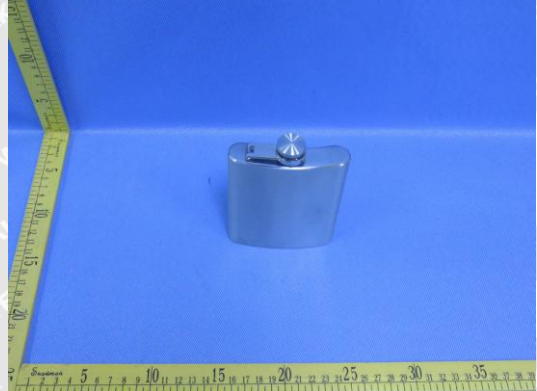


**Sample description:**

No.1: White plastic (PET)

No.2: Silvery metal (Stainless steel)

**Photograph of parts tested:**

| No. | Photo of testing part  | Parts Description | Client Claimed Material |
|-----|--|-------------------|-------------------------|
| 1   |   | White plastic     | PET                     |
| 2   |  | Silvery metal     | Stainless steel         |

==== End of Report ====