



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF20F10077246F

Applicant : Mid Ocean Brands B.V.

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

Manufacturer : 114276

Sample Name : Double wall stainless steel mug

Model No. : MO9597

Test Requested : In accordance with Council of Europe Resolution AP(2004)5, Regulation (EU) No 10/2011 with amendments, Council of Europe Resolution CM/Res(2013)9 and Regulation (EC) No 1935/2004.

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

Date of Receipt sample : 2020-10-22

Date of Test : 2020-10-22 to 2020-11-02

Date of Issue : 2020-11-02

Test Result : Please refer to next page (s)

Note : 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/kg) | LOQ(mg/kg) | Limit (mg/kg) |
|----------------|-------------------|----------------|------------|---------------|
| | | No.1 | | |
| 3% Acetic Acid | 100°C for 6 hours | ND | 20 | 60 |
| 10% Ethanol | 100°C for 6 hours | ND | 20 | 60 |

Note:

1. Test method: With reference to BS EN 1186-1: 2002 and BS EN 1186-3: 2002
2. "mg/kg" = milligram per kilogram
3. "°C" = Celsius degree
4. LOQ = Limit of quantitation
4. ND = Not Detected or lower than limit of quantitation
6. The specification was quoted from Council of Europe Resolution AP (2004)5.

| Food Simulant | Test Condition | Result (mg/dm ²) | LOQ (mg/dm ²) | Limit (mg/dm ²) |
|----------------|-------------------|------------------------------|---------------------------|-----------------------------|
| | | No.2 | | |
| 3% Acetic Acid | 100°C for 6 hours | ND | 3 | 10 |
| 10% Ethanol | 100°C for 6 hours | ND | 3 | 10 |

Note:

1. Test method: With reference to BS EN 1186-1: 2002 and BS EN 1186-3: 2002
2. "mg/dm²" = milligram per square decimetre
3. "°C" = Celsius degree
4. LOQ = Limit of quantitation
5. ND = Not Detected or lower than limit of quantitation
6. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752 and (EU)2019/37.

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

| Test Items | Result (mg/kg) | | LOQ (mg/kg) | Limit (mg/kg) |
|---------------------------------|----------------|------|-------------|---------------|
| | No.1 | No.2 | | |
| Specific migration of Nickel | ND | ND | 0.01 | 0.02 |
| Specific migration of Aluminium | ND | ND | 0.1 | 1 |
| Specific migration of Barium | ND | ND | 0.1 | 1 |
| Specific migration of Cobalt | ND | ND | 0.01 | 0.05 |
| Specific migration of Copper | ND | ND | 0.1 | 5 |
| Specific migration of Iron | ND | ND | 0.1 | 48 |
| Specific migration of Lithium | ND | ND | 0.01 | 0.6 |
| Specific migration of Manganese | ND | ND | 0.01 | 0.6 |
| Specific migration of Zinc | ND | ND | 0.1 | 5 |

Note:

1. Test Method: With reference to BS EN 13130-1: 2004, sample preparation in 3% acetic acid at 100°C for 6 hours, analysis was performed by ICP-OES.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
3. LOQ = Limit of quantitation
4. ND = Not Detected or lower than limit of quantitation
5. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416 and (EU) 2017/752.

3. Bisphenol A Content*

| Test Item | Result (mg/kg) | | LOQ (mg/kg) | Limit (mg/kg) |
|-------------|----------------|------|-------------|--------------------------|
| | No.1 | No.2 | | |
| Bisphenol A | ND | ND | 0.1 | Not Detected (<0.1mg/kg) |

Note:

1. Test Method: With reference to EPA3550C:2007, analysis was performed by GC-MS.
2. "mg/kg" = milligram per kilogram
3. LOQ = Limit of quantitation
4. ND = Not Detected or lower than limit of quantitation
5. The specification was quoted from Law No 2012-1442.
6. The testing item marked with '*' does not been accredited by CNAS.

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

| Test Items | 1st+2nd Migration (mg/kg) | LOQ (mg/kg) | Limit (mg/kg) |
|-----------------|---------------------------|-------------|---------------|
| | No.3 | | |
| Aluminium (Al) | ND | 0.2 | 35 |
| Antimony (Sb) | ND | 0.02 | 0.28 |
| Chromium (Cr) | 0.05 | 0.04 | 1.75 |
| Cobalt (Co) | ND | 0.02 | 0.14 |
| Copper (Cu) | ND | 0.2 | 28 |
| Iron (Fe) | ND | 0.4 | 280 |
| Manganese (Mn) | ND | 0.2 | 12.6 |
| Molybdenum (Mo) | ND | 0.02 | 0.84 |
| Nickel (Ni) | 0.02 | 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) | ND | 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) | ND | 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) | LOQ (mg/kg) | Limit (mg/kg) |
|-----------------|-----------------------|-------------|---------------|
| | No.3 | | |
| Aluminium (Al) | ND | 0.1 | 5 |
| Antimony (Sb) | ND | 0.01 | 0.04 |
| Chromium (Cr) | ND | 0.02 | 0.25 |
| Cobalt (Co) | ND | 0.01 | 0.02 |
| Copper (Cu) | ND | 0.1 | 4 |
| Iron (Fe) | ND | 0.2 | 40 |
| Manganese (Mn) | ND | 0.1 | 1.8 |
| Molybdenum (Mo) | ND | 0.01 | 0.12 |
| Nickel (Ni) | ND | 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:

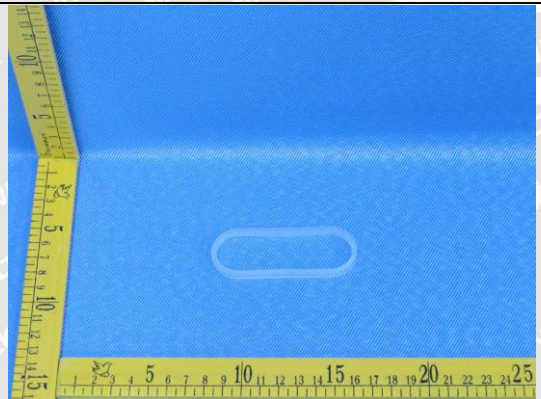
1. Test Method: With reference to BS EN 13130-1: 2004, analysis was performed by ICP-OES and ICP-MS.
2. Test Condition and simulant: Sample(s) were migrated with 5g/L citric acid at 100°C for 6 hours.
3. "mg/kg" = milligram per kilogram of foodstuff in contact with
4. LOQ = Limit of quantitation
5. ND = Not Detected or lower than limit of quantitation
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.



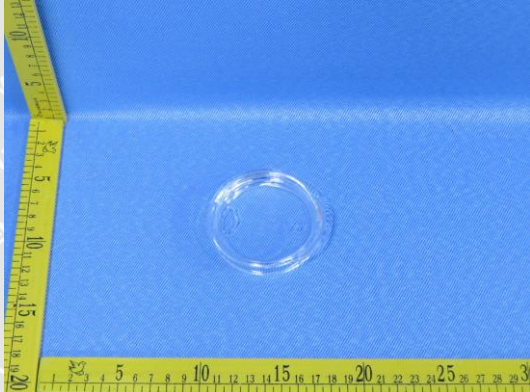

Sample Photo:



Photograph of parts tested:

| No. | Photo of testing part | Parts Description | Client Claimed Material |
|-----|---|-----------------------------|-------------------------|
| 1 |  | Translucent silicone rubber | Silicone rubber |



| No. | Photo of testing part | Parts Description | Client Claimed Material |
|-----|--|---------------------|-------------------------|
| 2 |  | Transparent plastic | PS |
| 3 |  | Silvery metal | Stainless steel |

===== End of Report =====

WALTEK