



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Report No...... : WTF22F05093115F
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 bottle with cork
Sample Model..... : MO6313
Test Requested..... : 1. In accordance with Regulation (EU) No 10/2011 with
amendments, Council of Europe Resolution
CM/Res(2013)9, Council of Europe Resolution
AP(2004)5and Regulation (EC) No 1935/2004.
2. In accordance with French Décret n°2007-766 with
amendments and Regulation (EC) No 1935/2004.
Test Conclusion..... : **Pass** (Please refer to next pages for details)
Date of Receipt sample..... : 2022-05-12
Testing period..... : 2022-05-12 to 2022-05-26
Date of Issue..... : 2022-05-26
Test Result..... : Refer to next page (s)
Note..... : Selected test(s) as requested by applicant

Prepared By:

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Signed for and on behalf of
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Test Results:

1. Overall Migration Test

| Food Simulant | Test Condition | Result (mg/dm ²) | | | LOQ (mg/dm ²) | Limit (mg/dm ²) |
|---------------|-------------------|------------------------------|---------------------------|---------------------------|---------------------------|-----------------------------|
| | | No.1 | | | | |
| | | 1 st Migration | 2 nd Migration | 3 rd Migration | | |
| 10% Ethanol | 100°C for 6 hours | ND | ND | ND | 3 | 10 |

Note:

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2002 and BS EN 1186-14: 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, (EU)2019/37 and (EU) 2020/1245.

| Food Simulant | Test Condition | Result (mg/kg) | LOQ(mg/kg) | Limit (mg/kg) |
|---------------|-------------------|----------------|------------|---------------|
| | | No.1 | | |
| 10% Ethanol | 100°C for 6 hours | ND | 20 | 60 |

Note:

1. Test method: With reference to BS EN 1186-1: 2002, BS EN 1186-3: 2002 and BS EN 1186-14: 2002.
2. "mg/kg" = milligram per kilogram of foodstuff in contact with
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 Council of Europe Resolution AP (2004)5 and French Arrêté du 25 novembre 1992 for Silicone Elastomers.



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2. Specific Migration of heavy metal

| Test Items | Result(mg/kg) | | | LOQ (mg/kg) | Limit (mg/kg) |
|----------------------------------|------------------------------|------------------------------|------------------------------|-------------|---------------|
| | No.1 | | | | |
| | 1 st Migration | 2 nd Migration | 3 rd Migration | | |
| Specific migration of Nickel | ND | ND | ND | 0.01 | 0.02 |
| Specific migration of Aluminium | ND | ND | ND | 0.1 | 1 |
| Specific migration of Barium | ND | ND | ND | 0.1 | 1 |
| Specific migration of Cobalt | ND | ND | ND | 0.01 | 0.05 |
| Specific migration of Copper | ND | ND | ND | 0.1 | 5 |
| Specific migration of Iron | ND | ND | ND | 0.1 | 48 |
| Specific migration of Lithium | ND | ND | ND | 0.01 | 0.6 |
| Specific migration of Manganese | ND | ND | ND | 0.01 | 0.6 |
| Specific migration of Zinc | ND | ND | ND | 0.1 | 5 |
| Specific migration of Antimony | ND | ND | ND | 0.01 | 0.04 |
| Specific migration of Arsenic | ND | ND | ND | 0.01 | Not detected |
| Specific migration of Cadmium | ND | ND | ND | 0.002 | Not detected |
| Specific migration of Chromium | ND | ND | ND | 0.01 | Not detected |
| Specific migration of Mercury | ND | ND | ND | 0.01 | Not detected |
| Specific migration of Lead | ND | ND | ND | 0.01 | Not detected |
| Specific migration of Europium | ND | ND | ND | 0.02 | Sum<0.05 |
| Specific migration of Gadolinium | ND | ND | ND | 0.02 | |
| Specific migration of Lanthanum | ND | ND | ND | 0.02 | |
| Specific migration of Terbium | ND | ND | ND | 0.02 | |

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-MS.
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, (EU) 2017/752 and (EU) 2020/1245.



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3. Specific Migration of Primary Aromatic Amines

| Test Item | Result (mg/kg) | | | LOQ (mg/kg) | Limit (mg/kg) |
|--------------------------------------|------------------------------|------------------------------|------------------------------|-------------|---------------|
| | No.1 | | | | |
| | 1 st Migration | 2 nd Migration | 3 rd Migration | | |
| Migration of Primary aromatic amines | ND | ND | ND | 0.002 | <0.01mg/kg |

Note:

1. Test Method: With reference to § 64 LFGB L No. 00.00-6, analysis was performed by UV-visible Spectrometer.
2. Test Condition and simulant: 3% acetic 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. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752 and (EU) 2020/1245.

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4. Specific Migration of Primary Aromatic Amines (single substance)*

| Test Items | CAS No. | Result(mg/kg) | | | LOQ (mg/kg) | Limit (mg/kg) |
|---|----------|------------------------------|------------------------------|------------------------------|----------------|------------------|
| | | No.1 | | | | |
| | | 1 st Migration | 2 nd Migration | 3 rd Migration | | |
| 2-methoxyaniline | 90-04-0 | ND | ND | ND | 0.002 | ND |
| 4,4'-Diaminobiphenyl | 92-87-5 | ND | ND | ND | 0.002 | ND |
| 4,4'-Methylen-bis-(2-chloroaniline) | 101-14-4 | ND | ND | ND | 0.002 | ND |
| 4,4'-Diaminodiphenylmethane | 101-77-9 | ND | ND | ND | 0.002 | ND |
| 4,4'-Oxydianiline | 101-80-4 | ND | ND | ND | 0.002 | ND |
| 4-chloroaniline | 106-47-8 | ND | ND | ND | 0.002 | ND |
| 3,3'-Dimethoxybenzidine | 119-90-4 | ND | ND | ND | 0.002 | ND |
| 3,3'-Dimethylbenzidine | 119-93-7 | ND | ND | ND | 0.002 | ND |
| 2-Methoxy-5-methylaniline | 120-71-8 | ND | ND | ND | 0.002 | ND |
| 2,4,5 – Trimethylaniline | 137-17-7 | ND | ND | ND | 0.002 | ND |
| 4,4'-Thiodianiline | 139-65-1 | ND | ND | ND | 0.002 | ND |
| 4-aminoazobenzene | 60-09-3 | ND | ND | ND | 0.002 | ND |
| 2,4-diaminoanisole | 615-05-4 | ND | ND | ND | 0.002 | ND |
| 4,4'-diamino-3,3'-dimethyldiphenylmethane | 838-88-0 | ND | ND | ND | 0.002 | ND |
| 2-Naphthylamine | 91-59-8 | ND | ND | ND | 0.002 | ND |
| 3,3'-Dichlorobenzidine | 91-94-1 | ND | ND | ND | 0.002 | ND |
| 4-Aminobiphenyl | 92-67-1 | ND | ND | ND | 0.002 | ND |
| 2-methylaniline | 95-53-4 | ND | ND | ND | 0.002 | ND |
| 4-chloro-o-Toluidine | 95-69-2 | ND | ND | ND | 0.002 | ND |
| 2,4-Toluyldiamine | 95-80-7 | ND | ND | ND | 0.002 | ND |
| 2,4-Aminoazotoluene | 97-56-3 | ND | ND | ND | 0.002 | ND |
| 2-Amino-4-nitrotoluene | 99-55-8 | ND | ND | ND | 0.002 | ND |
| 2,4-Xylidin | 95-68-1 | ND | ND | ND | 0.002 | ND |
| 2,6-Xylidin | 87-62-7 | ND | ND | ND | 0.002 | ND |
| 1, 3 - phenylene diamine | 108-45-2 | ND | ND | ND | 0.002 | ND |



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Note:

1. Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS-MS.
2. Test Condition and simulant: 3% acetic 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. The specification was quoted from (EU) No 10/2011 and its amendments (EU) 2016/1416, (EU) 2017/752 and (EU) 2020/1245.
7. The testing item marked with '*' does not been accredited by CNAS.

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5. 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.2 | | |
| Aluminium (Al) | ND | 0.2 | 35 |
| Antimony (Sb) | ND | 0.02 | 0.28 |
| Chromium (Cr) | ND | 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) | 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) | 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 | -- |



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| Test Items | 3rd Migration (mg/kg) | LOQ (mg/kg) | Limit (mg/kg) |
|-----------------|-----------------------|-------------|---------------|
| | No.2 | | |
| 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-MS.
2. Test Condition and simulant: Sample(s) were migrated with artificial tap water 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.



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6. Peroxide Value Test*

| Test Item | Result | Limit |
|----------------|--------|--------|
| | No.3 | |
| Peroxide Value | Absent | Absent |

Note:

1. Test method: With reference to French pharmacopoeia Xth edition.
2. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.
3. The testing item marked with '*' does not been accredited by CNAS.

7. Volatile Organic Compounds

| Test Item | Test Condition | Result (%) | LOQ (%) | Limit (%) |
|----------------------------|-------------------|------------|---------|-----------|
| | | No.3 | | |
| Volatile Organic compounds | 200°C for 4 hours | 0.21 | 0.05 | 0.5 |

Note:

1. Test method: With reference to French Arrêté du 25 novembre 1992 Annex III for silicone Elastomers.
2. "%" = percentage by weight
3. LOQ = Limit of quantitation
4. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.

8. Specific Migration of Organotin (as Tin)

| Food Simulant | Test Condition | Result (mg/kg) | LOQ (mg/kg) | Limit (mg/kg) |
|----------------|-------------------|----------------|-------------|---------------|
| | | No.3 | | |
| 3% acetic acid | 100°C for 6 hours | ND | 0.01 | 0.1 |

Note:

1. Test Method: With reference to BS EN 13130-1: 2004, analysis was performed by ICP-MS.
2. "mg/kg" = milligram per kilogram
3. LOQ = Limit of quantitation
4. ND = Not Detected, less than LOQ
5. The specification was quoted from French Arrêté du 25 novembre 1992 for Silicone Elastomers.



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9. Bisphenol A Content*

| Test Item | Result (mg/kg) | LOQ (mg/kg) | Limit (mg/kg) |
|-------------|----------------|-------------|---------------|
| | No.3 | | |
| Bisphenol A | ND | 0.1 | Not Detected |

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.

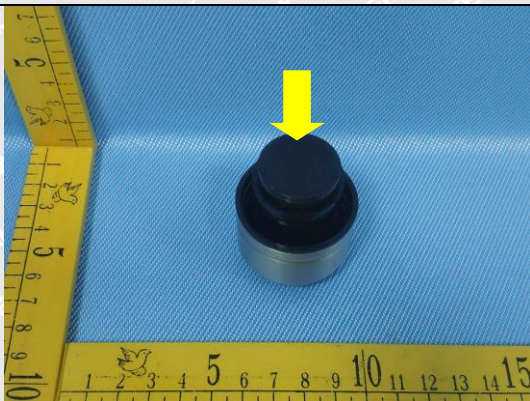


Sample Photo:





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Photograph of parts tested:

| No. | Photo of testing part | Parts Description | Client Claimed Material |
|-----|---|-----------------------------|-------------------------|
| 1 |  | Black plastic | PP |
| 2 |  | Silvery metal | Stainless steel |
| 3 |  | Transparent silicone rubber | Silicone rubber |

Remarks:

1. The results shown in this test report refer only to the sample(s) tested;
2. This test report cannot be reproduced, except in full, without prior written permission of the company;
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===== End of Report =====