
Test Report

Report No. : AGC05443240307-001

SAMPLE NAME : Double wall SS mug with PP handle
MODEL NAME : MO6600
APPLICANT : MID OCEAN BRANDS B.V
STANDARD(S) : Please refer to the following page(s).
DATE OF ISSUE : Mar. 11, 2024

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Applicant : MID OCEAN BRANDS B.V
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

Sample Name : Double wall SS mug with PP handle
Model : MO6600
Vendor code : 115253
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Received Date : Mar. 04, 2024
Testing Period : Mar. 04, 2024 to Mar. 11, 2024
Test Requested : Selected test(s) as requested by client.

Test Requested:**Conclusion**

| | |
|---|------|
| Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63 - Lead(Pb) Content | Pass |
| Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23 -Cadmium(Cd) Content | Pass |
| Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52 - Phthalates Content | Pass |
| Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50 - Polycyclic-aromatic Hydrocarbons (PAHs) Content | Pass |
| Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9 - Specific migration of Heavy metal | Pass |

Approved by: 

Suhongliang, Leon

Technical Director

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Report Revise Record

| Report Version | Issued Date | Valid Version | Notes |
|----------------|---------------|---------------|-----------------|
| / | Mar. 11, 2024 | Valid | Initial release |

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The photo of the sample



The photo of AGC05443240307-001 is for use only with the original report.

Test Point Description

| Test point | Test point description |
|------------|------------------------|
| 1-1 | Black plastic handle |
| 1-2 | Navy blue coating |
| 1-3 | Inner S/S mug |

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Test Results:

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63
- Lead(Pb) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | | |
|--------------|-------|-------|-----|----------------|------------|------------|
| | | | | 1-1 | 1-2 | 1-3 |
| Lead(Pb) | mg/kg | 500 | 10 | N.D. | N.D. | N.D. |
| Conclusion | | | | Conformity | Conformity | Conformity |

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23
-Cadmium(Cd) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | |
|--------------|-------|-------|-----|----------------|------------|
| | | | | 1-1 | 1-2 |
| Cadmium(Cd) | mg/kg | 100 | 10 | N.D. | N.D. |
| Conclusion | | | | Conformity | Conformity |

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Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52
- Phthalates Content

Test Methods and Equipment: IEC 62321-8:2017; GC-MS

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | |
|--|------|-------|-------|----------------|------------|
| | | | | 1-1 | 1-2 |
| Diisobutyl phthalate (DIBP) CAS:84-69-5 | % | 0.1 | 0.005 | N.D. | N.D. |
| Dibutyl phthalate (DBP) CAS:84-74-2 | % | 0.1 | 0.005 | N.D. | N.D. |
| Butylbenzyl phthalate (BBP) CAS:85-68-7 | % | 0.1 | 0.005 | N.D. | N.D. |
| Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7 | % | 0.1 | 0.005 | N.D. | N.D. |
| Di-n-octyl phthalate (DNOP) CAS:117-84-0 | % | / | 0.005 | N.D. | N.D. |
| Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0 | % | / | 0.005 | N.D. | N.D. |
| Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1 | % | / | 0.005 | N.D. | N.D. |
| Sum of DIBP +DBP+BBP+DEHP | % | 0.1 | / | N.D. | N.D. |
| Sum of DNOP+DINP+DIDP | % | 0.1 | / | N.D. | N.D. |
| Conclusion | | | | Conformity | Conformity |

Limit requirements of Phthalates

| | |
|--|--|
| Toys and childcare articles | Each of DEHP, DBP, BBP, DIBP is less than 0.1% or the sum of DEHP+DBP+BBP+DIBP is less than 0.1% |
| Toys and childcare articles which can be placed in the mouth by children | The sum of DINP+DIDP+DNOP is less than 0.1% |

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Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50
- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Test Methods and Equipment: Afps GS 2019:01 PAK; GC-MS

| Test Item(s) | Unit | Limit | MDL | Test Result(s) | |
|-----------------------------|-------|-------|-----|----------------|------------|
| | | | | 1-1 | 1-2 |
| Benzo[a]pyrene(BaP) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Benzo[e]pyrene(BeP) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Benzo[a]anthracene(BaA) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Benzo[b]fluoranthene(BbF) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Benzo[j]fluoranthene(BjFA) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Benzo[k]fluoranthene(BkF) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Chrysene(CHR) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Dibenzo[a,h]anthracene(DBA) | mg/kg | 1 | 0.1 | N.D. | N.D. |
| Conclusion | | | | Conformity | Conformity |

Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

| Items | CAS No. | Extender oils or used for the production of tyres or parts of tyres | Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity | Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity |
|--|----------|---|--|---|
| Benzo[a]pyrene(BaP) | 50-32-8 | ≤ 1 | ≤ 1 | ≤ 0.5 |
| Benzo[e]pyrene(BeP) | 192-97-2 | / | ≤ 1 | ≤ 0.5 |
| Benzo[a]anthracene(BaA) | 56-55-3 | / | ≤ 1 | ≤ 0.5 |
| Benzo[b]fluoranthene(BbF) | 205-99-2 | / | ≤ 1 | ≤ 0.5 |
| Benzo[j]fluoranthene(BjFA) | 205-82-3 | / | ≤ 1 | ≤ 0.5 |
| Benzo[k]fluoranthene(BkF) | 207-08-9 | / | ≤ 1 | ≤ 0.5 |
| Chrysene(CHR) | 218-01-9 | / | ≤ 1 | ≤ 0.5 |
| Dibenzo[a,h]anthracene(DBA) | 53-70-3 | / | ≤ 1 | ≤ 0.5 |
| Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA | / | ≤ 10 | / | / |

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- Specific migration of Heavy metal

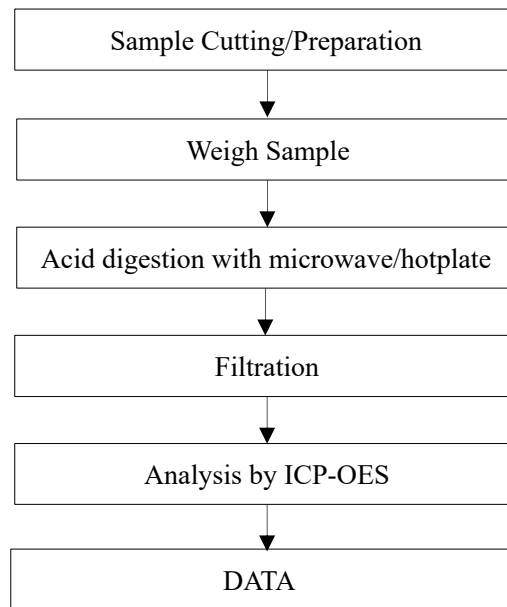
| Test Item(s) | Test condition/ Equipment | MDL (mg/kg) | Test Result(s) (mg/kg) | Limit (mg/kg) |
|-------------------|--|----------------|---|-------------------|
| | | | 1-3 | |
| | | | 1 st + 2 nd extractives | |
| Barium (Ba) | 0.5% Citric acid 70°C, 2h, ICP-OES | 0.1 | N.D. | 8.4 |
| Copper (Cu) | | 0.1 | N.D. | 28 |
| Iron (Fe) | | 0.1 | 3.199 | 280 |
| Tin (Sn) | | 0.1 | N.D. | 700 |
| Chromium (Cr) | | 0.01 | 0.103 | 1.75 |
| Manganese (Mn) | | 0.1 | N.D. | 12.6 |
| Zinc (Zn) | | 0.1 | N.D. | 35 |
| Aluminium (Al) | | 0.1 | N.D. | 35 |
| Lithium (Li) | | 0.01 | N.D. | 0.336 |
| Beryllium (Be) | | 0.005 | N.D. | 0.07 |
| Vanadium (V) | | 0.005 | N.D. | 0.07 |
| Nickel (Ni) | | 0.01 | 0.108 | 0.98 |
| Cobalt (Co) | | 0.01 | N.D. | 0.14 |
| Arsenic (As) | | 0.002 | N.D. | 0.014 |
| Molybdenum(Mo) | | 0.01 | N.D. | 0.84 |
| Silver (Ag) | | 0.01 | 0.059 | 0.56 |
| Cadmium (Cd) | | 0.002 | N.D. | 0.035 |
| Antimony (Sb) | | 0.01 | N.D. | 0.28 |
| Mercury (Hg) | | 0.002 | N.D. | 0.021 |
| Thallium (Tl) | | 0.0001 | N.D. | 0.0007 |
| Lead (Pb) | | 0.01 | N.D. | 0.07 |
| Conclusion | | | / | Conformity |
| Magnesium (Mg) | | 0.01 | 0.040 | / |
| Titanium (Ti) | | 0.01 | N.D. | / |

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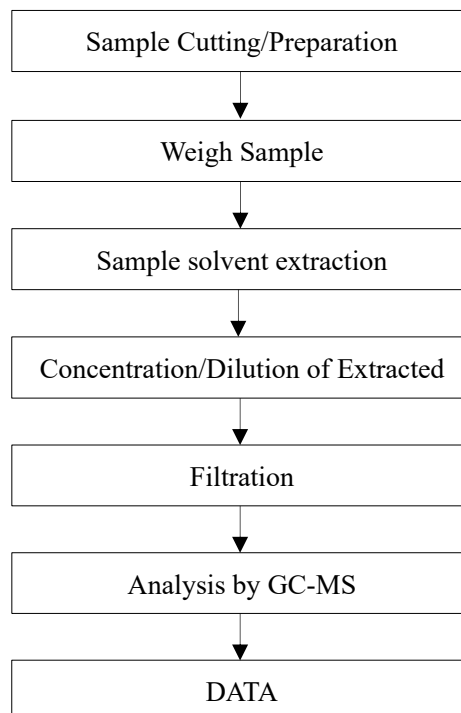
| Test Item(s) | Test condition/ Equipment | MDL (mg/kg) | Test Result(s) (mg/kg) | Limit (mg/kg) | |
|-------------------|--|----------------|-----------------------------|-------------------|---|
| | | | 1-3 | | |
| | | | 3 rd extractives | | |
| Barium (Ba) | 0.5% Citric acid 70°C, 2h, ICP-OES | 0.1 | N.D. | 1.2 | |
| Copper (Cu) | | 0.1 | N.D. | 4 | |
| Iron (Fe) | | 0.1 | 0.294 | 40 | |
| Tin (Sn) | | 0.1 | N.D. | 100 | |
| Chromium (Cr) | | 0.01 | 0.015 | 0.25 | |
| Manganese (Mn) | | 0.1 | N.D. | 1.8 | |
| Zinc (Zn) | | 0.1 | N.D. | 5 | |
| Aluminium (Al) | | 0.1 | N.D. | 5 | |
| Lithium (Li) | | 0.01 | N.D. | 0.048 | |
| Beryllium (Be) | | 0.005 | N.D. | 0.01 | |
| Vanadium (V) | | 0.005 | N.D. | 0.01 | |
| Nickel (Ni) | | 0.01 | N.D. | 0.14 | |
| Cobalt (Co) | | 0.01 | N.D. | 0.02 | |
| Arsenic (As) | | 0.002 | N.D. | 0.002 | |
| Molybdenum(Mo) | | 0.01 | N.D. | 0.12 | |
| Silver (Ag) | | 0.01 | 0.029 | 0.08 | |
| Cadmium (Cd) | | 0.002 | N.D. | 0.005 | |
| Antimony (Sb) | | 0.01 | N.D. | 0.04 | |
| Mercury (Hg) | | 0.002 | N.D. | 0.003 | |
| Thallium (Tl) | | 0.0001 | N.D. | 0.0001 | |
| Lead (Pb) | | 0.01 | N.D. | 0.01 | |
| Conclusion | | | / | Conformity | / |
| Magnesium (Mg) | | | 0.01 | N.D. | / |
| Titanium (Ti) | | 0.01 | N.D. | / | |

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Test Flow Chart of Heavy Metal Content

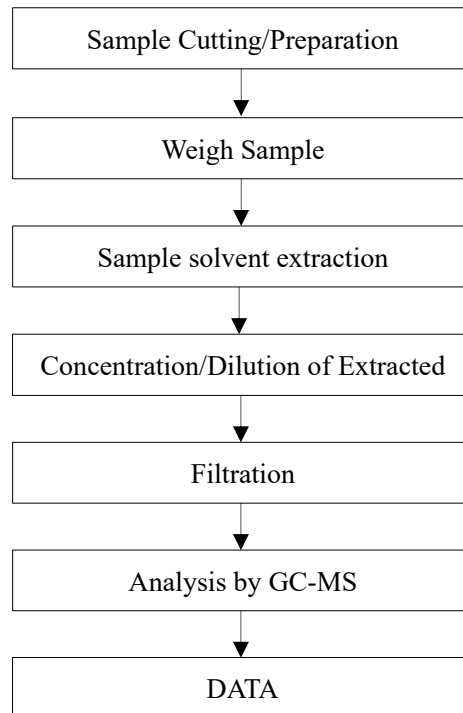


Test Flow Chart of Phthalates



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Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

*** End of Report ***

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