



# TEST REPORT

**Report No.** ..... : WTF23F02024823C  
**Applicant** ..... : Mid Ocean Brands B.V.  
**Address** ..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan,  
Kowloon, Hong Kong  
**Manufacturer** ..... : 111049  
**Sample Name** ..... : Ceramic Sublimation mug  
**Sample Model** ..... : MO9451  
**Test Requested** ..... : 1) Client's requirements - Dishwasher Safe Rapid test for  
domestic ceramic articles (BS EN 12875-4:2006)  
2) Client's requirements - BS EN 15284:2007 Materials and  
articles in contact with food stuffs for the resistance to  
microwave heating of ceramic, glass, glass-ceramic or plastic  
cookware  
**Test Conclusion** ..... : Refer to next page (s)  
**Date of Receipt sample** ..... : 2023-02-20  
**Testing period** ..... : 2023-02-20 to 2023-03-01  
**Date of Issue** ..... : 2023-03-01  
**Test Result** ..... : Refer to next page (s)

**Prepared By:**

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Signed for and on behalf of  
Waltek Testing Group (Foshan) Co., Ltd.

*Swing Liang*

Swing.Liang



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Sample photo:



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**Test Result:**

**1) Dishwasher Safe (BS EN 12875-4:2006)**

Test Standard	:	BS EN 12875-4:2006 Mechanical dishwashing resistance of utensils - Part 4: Rapid test for domestic ceramic articles
Number of tested sample	:	4 pcs per style for testing, 1 pc as control sample.
Procedure	:	<p>1. Preparation of test specimens</p> <p>1.1 Remove any surface contamination from the test specimens, e.g. by washing the specimens by hand in a mild liquid detergent at about 45°C, followed by rinsing and drying with a clean cloth.</p> <p>1.2 Place the test specimens in the inspection site and examine them with normal corrected vision from a distance of (30±10) cm, while the viewing angle is changed. All test specimens of a given type shall be of comparable quality in gloss and colour; discard any specimens that are of inferior quality. Retain one specimen as an untested reference standard.</p> <p>2. Immersion of test specimens</p> <p>2.1 Determine the surface area of the test specimens. Fill the tank with sufficient water to completely cover the specimens. Check for compliance with the surface area to volume criterion; if the calculated surface area approaches the critical limit of 130 cm<sup>2</sup>/l, a greater volume shall be used.</p> <p>2.2 Cover the tank and adjust the water bath temperature to give a test tank temperature of (75±1)°C. Record the tank temperature.</p> <p>2.3 Add sufficient detergent to give a 0.5% solution in the test tank. Stir well to disperse the detergent. Immediately lower the test specimens, in the racks, into the tank and cover with the lid.</p> <p>2.4 After 16h±10 min, record the temperature in the tank and remove the test specimens. Rinse the test specimens in hot water and rub dry with a clean cloth (the rubbing action will also remove any loose colour).</p> <p>2.5 Examine the specimens, comparing tested items with the corresponding untested reference standards and report any changes in gloss or colour using the method described in EN 12875-2.</p> <p>2.6 Repeat the immersion procedure for a further 16h±10 min using fresh detergent solution. Remove the test specimens, rinse and dry them as described in 2.4.</p> <p>2.7 Re-examine the specimens as described in 2.5 after a total of 32 hours</p>
Test Result	:	<b>PASS</b>

**Test Result:**

Test specimen	After 16 hours immersion			After 32 hours immersion		
	Gloss	Colour	Other aspects	Gloss	Colour	Other aspects
1	0	0	0	0	0	0
2	0	0	0	0	0	0
3	0	0	0	0	0	0



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**Note:**

Classification	Rating
0	No visible change
1	first discernible change
2	Clearly visible change

**2) Microwave Safe (BS EN 15284:2007)**

Test Standard	:	BS EN 15284:2007 Test Method for the Resistance to Microwave Heating of Ceramic, Glass, Glass-Ceramic of Plastic Cookware
No. of Specimen	:	3 pieces for testing, Remains as control samples.
Test Requirement	:	1. Ceramic items shall display no signs of cracking, crazing, scaling or colour.
		2. Glass, Glass ceramic items shall display no signs of cracking, scaling or colour.
		3. Plastic items shall display no signs of cracking, colour, melting, deformation, suitability for re-use of charring.
		4. The maximum surface temperature of handles (if applicable) after the short period heating shall not exceed: a. Ceramic, Glass, Glass-ceramic = 56°C b. Plastic = 60°C
Conclusion(s)	:	<b>PASS</b> , Details as following 1. No visible damage was found on all tested samples after testing. 2. No arcing was observed on all tested samples during testing. 3. Surface temperature at the handle of the tested samples did not exceed the maximum as specified by the standard (see test data).

**Test Data:**

Test Period	Location	Highest Temperature (°C)			Requirement
		Sample 1	Sample 2	Sample 3	
After the Short Period Heating	Handle	31.8	32.5	31.4	Ceramic, Glass or Glass-ceramic ≤ 56°C
	Surface of body	42.0	42.6	42.2	/
After the Long Period Heating	Handle	72.0	77.9	79.8	/
	Surface of body	93.2	98.6	95.2	/

**Description for Specimen:**

Specimen No.	Specimen Description
1	White ceramic mug with black plating (Overall individual)



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Remarks:

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2. This test report cannot be reproduced, except in full, without prior written permission of the company;
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6. The sample material information (Model No. information) is provided by client, not verified by test laboratory. The samples of reference Model No. are not tested. Test laboratory not responsible for the accuracy, appropriateness, completeness and authenticity of the information provided by client.

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

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