



**Test Report**

No.: TJHG1507002652CW

Date: JUL.23, 2015

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PHOTO USA ELECTRONIC GRAPHIC INC.

8 DONGDAQIAO RD., STE 2716, THE SPACES INT'L CENTRE, CHAOYANG DISTRICT, BEIJING

The following sample(s) was/were submitted and identified by the client as:

Sample Description : ORCA COATING MUG  
 Supplier : PHOTO USA ELECTRONIC GRAPHIC INC.  
 Country of Origin : CHINA  
 Sample Receiving Date : JUL.01, 2015  
 Testing Period : JUL.01, 2015 TO JUL.23, 2015  
 Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT  
 Test Requested : WITH REFERENCE TO EN 12875-4:2006 - MECHANICAL  
 DISHWASHING RESISTANCE OF UTENSILS - RAPID TEST  
 FOR DOMESTIC CERAMIC ARTICLES  
 Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE  
 FOLLOWING PAGE(S)  
 Conclusion : THE TEST RESULT WAS FOR CLIENT'S REFERENCE

\*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.

Michael Wen  
Section Head



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**Test Conducted:**

**WITH REFERENCE TO EN 12875-4: 2006 Mechanical dishwashing resistance of utensils - Rapid test for domestic ceramic articles**

- 1) Scope: The European Standard specifies a rapid method for testing the dishwashing resistance of ceramic articles intended for domestic use. It does not define the number of dishwashing cycles that any given product should withstand.
- 2) Product Category: Ceramic tableware
- 3) Number of tested sample: 4 pieces
- 4) Number of Controlled Sample: 1 piece
- 5) Procedure

Clause	Test item	Test method/Requirement
7.1	Preparation of test specimens	Preparation of test specimens
7.1.1		Remove any surface contamination from the test specimens.
7.1.2		Place the test specimens in the inspection site and examine them with normal corrected vision from a distance of $(30 \pm 10)$ 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.
7.2	Immersion of test specimens	Immersion of test specimens
7.2.1		Fill the tank with sufficient water to completely cover the specimens. Ensure that the total ware surface area to test solution volume does not exceed 130 cm <sup>2</sup> /l.
7.2.2		Cover the tank and adjust the water bath temperature to give a test tank temperature of $(75 \pm 1)$ °C, record the tank temperature.
7.2.3		Add sufficient specified detergent to make sure the concentration of detergent is 0.5% (m/m) of 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.
7.2.4		After $16 \text{ h} \pm 10 \text{ min}$ , record the temperature in the tank and remove the test specimens. Rinse the test specimens in hot water, rub dry with a clean cloth (the rubbing action will also remove any loose colour).
7.2.5		Examine the specimens as described in 7.1.2, 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.



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7.2.6		Repeat the immersion procedure for a further 16 h ± 10 min using fresh detergent solution. Remove the test specimens, rinse and dry them.
7.2.7		Re-examine the specimens after a total of 144 hours immersion. Report any changes in gloss or colour.

6) Test result:

After 16 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0

After 32 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0



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### After 48 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0

### After 64 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0



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After 80 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0

After 96 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0



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After 112 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0

After 128 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0



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After 144 hours

Products		Color	Gloss	Resistant deposites and iridescent layers	Other aspects
1	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
2	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
3	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
4	Inspector1	0	0	0	0
	Inspector2	0	0	0	0
Average	Inspector1	0	0	0	0
	Inspector2	0	0	0	0



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**Note:**

Table 1 – Inspection criteria

	Colour(1)	gloss	Clouding	Resistant deposits and iridescent layers(2)	Other aspects
Ceramic tableware	+	+		+	+(3)(4)(5)
(+) = to be inspected (1) If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen. (2) For the elimination of easily removable deposits. (3) e.g. crazing. (4) The adherence of decorations shall be tested by repeated wiping with a moist cloth under slight pressure. (5) Abrasion which is caused by friction during the dishwasher treatment shall be disregarded.					

Table 2 – Evaluation of inspection criteria

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



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### Remark:

1. As per client's request, the marking on the bottom of the sample was not verified.



2. Customer-Requested Reference Content Only (Not SGS verified):

The first 16 hours immersion period is considered to be roughly equal to 250 cycles in a domestic dishwasher.

Whilst the full 32 hours immersion period is considered to be equal to 500 cycles in a domestic dishwasher.

According to this report, the full 144 hours immersion period is considered to be equal to 2250 cycles in a normal domestic dishwasher.



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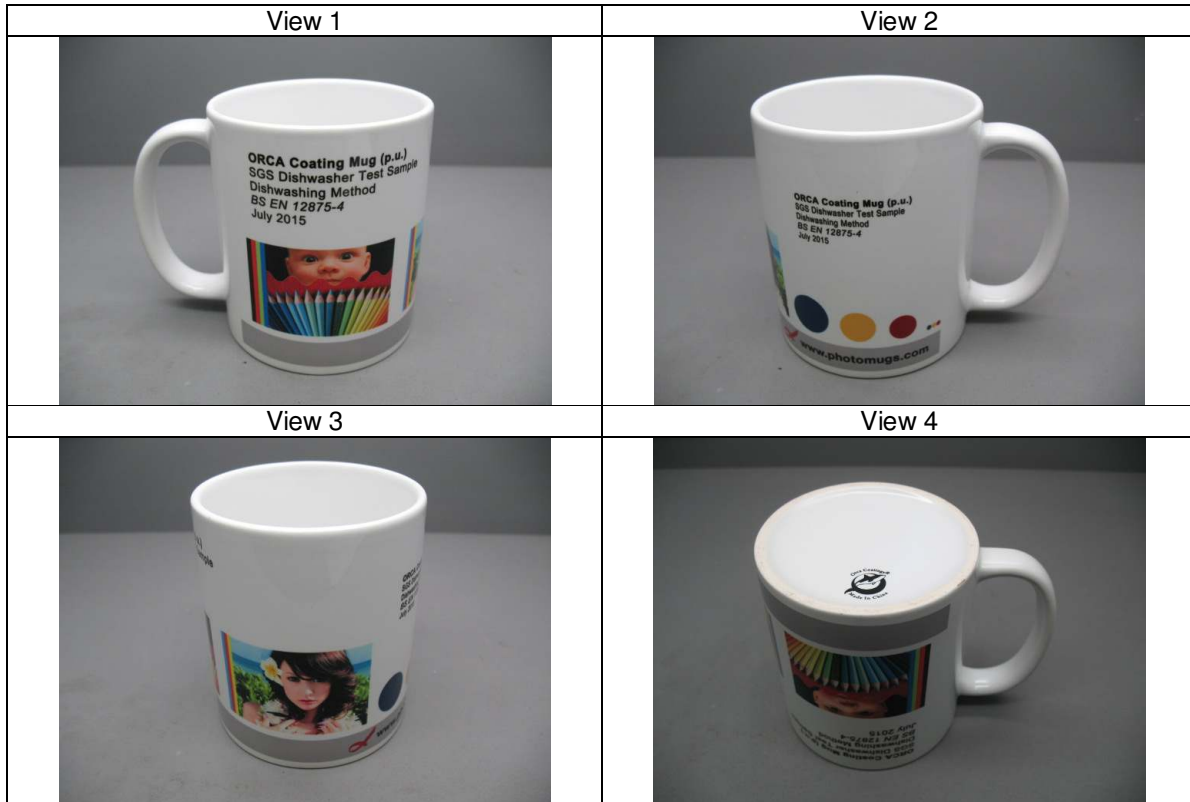
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