



Test Report

No.: TJHL1806003154CW

Date: JUL.10, 2018

Page: 1 of 7

ZIBO WANGSEN IMPORT AND EXPORT CO., LTD.

RM 1201, MANSION D, BEIXIWU RD, ZHANGDIAN DISTRICT, ZIBO CITY, 255000, CHINA

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

Sample Description : 11OZ SUBLIMATION WHITE MUG
SGS reference No. : QDHL1806012751CW
Style/Item No. : WA-11A
Supplier : ZIBO WANGSEN IMPORT AND EXPORT CO., LTD.
Manufacture : ZIBO WANGSEN IMPORT AND EXPORT CO., LTD.
Country of Origin : CHINA
Sample Receiving Date : JUN.15, 2018
Testing Period : JUN.15, 2018 TO JUL.10, 2018
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested : 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 DATA WERE PROVIDED TO CLIENT FOR THEIR
OWN ANALYSIS

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

Michael Wen
Authorized Signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services (Tianjin) Co., Ltd.
Hardlines

SGS Mansion, No.41, The 5th Avenue, TEDA, Tianjin, China 300457 t (86-22)65288345 f (86-22)65288352 www.sgs.com.cn
中国·天津市经济技术开发区第五大街41号SGS大厦 邮编: 300457 t (86-22)65288345 f (86-22)65288352 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Conducted:

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 dose 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/Type
- 4) 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±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 ² /l.
7.2.2		Cover the tank and adjust the water bath temperature to give a test tank temperature of (75±1) °C , record the tank temperature.
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 h±10 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 the untested reference standards and report any changes in gloss or colour using the method described in EN 12875-2.
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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

7.2.7		Re-examine the specimens after a total of 32 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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Report

No.: TJHL1806003154CW

Date: JUL.10, 2018

Page: 4 of 7

Add 5 cycles as per client's requirements: 0

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Report

No.: TJHL1806003154CW

Date: JUL.10, 2018

Page: 6 of 7

After 112 hours

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

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

Test Report

No.: TJHL1806003154CW

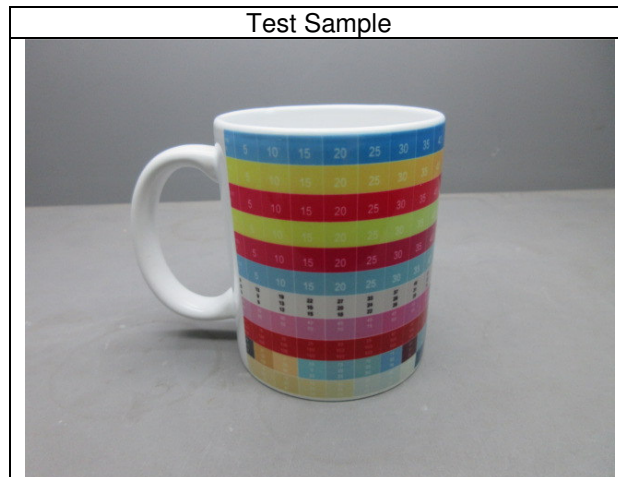
Date: JUL.10, 2018

Page: 7 of 7

4. Colour on the test sample 2 and sample 3 of clearly visible change was observed , after 112 h.



Sample Photo:



SGS authenticate the photo on original report only

End of Report