

Test Report

No. SHAHG1605912201

Date: 12 May 2016

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FOTOPICA UG

HARKSHEIDER STRASSE 102A,22399 HAMBURG,GERMANY

The following sample(s) was/were submitted and identified on behalf of the clients as : CERAMIC MUG
GLAZEKING,11OZ WHITE

SGS Job No. : SHHL1603014737CW - SH
 Buyer : FOTOPICA UG
 Item No. : 030312015
 Manufacturer : ZIBO GANDAO CERAMIC CO.,LTD.
 Supplier : ZIBO GANDAO CERAMIC CO.,LTD.
 Country of Origin : CHINA
 Country of Destination : GERMANY
 Date of Sample Received : 07 Apr 2016
 Testing Period : 07 Apr 2016 - 12 May 2016
 Test Requested : Selected test(s) as requested by client.
 Test Method : Please refer to next page(s).
 Test Results : Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
Overall migration	PASS
Sensorial examination odour and taste test	PASS
Leachable lead and cadmium content	PASS
Specific migration of heavy metal	PASS



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



Serena Wang
Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	SHA16-059122.001	White ceramic mug cup	Ceramic

Remarks :

- (1) mg/dm² = milligram per square decimeter
- (2) mg/kg = milligram per kilogram
- (3) °C= degree Celsius
- (4) < = less than
- (5) MDL = Method Detection Limit
- (6) ND = Not Detected (< MDL)

Overall migration

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, to determine overall migration.

Test Method : With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN1186-9:2002 aqueous food simulants by article filling method. EN 1186-14:2002 substitute test

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible Limit</u>	<u>Result of 001 Overall migration</u>	<u>Conclusion</u>
3% Acetic acid (W/V) aqueous solution	1.0hr(s)	100°C	10mg/dm ²	7.2mg/dm ²	PASS
95% Ethanol (V/V) aqueous solution (Rectified olive oil substitute)	3.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS
Isooctane (Rectified olive oil substitute)	1.0hr(s)	60°C	10mg/dm ²	<3.0mg/dm ²	PASS
10% Ethanol (V/V) aqueous solution	1.0hr(s)	100°C	10mg/dm ²	<3.0mg/dm ²	PASS

Notes :

- (1) Analytical tolerance of aqueous simulants is 2 mg/dm² or 12 mg/kg
- (2) Analytical tolerance of fatty food simulants is 3 mg/dm² or 20 mg/kg
- (3) Test condition & simulant were specified by client.



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(4) The test data is obtained by considering the articles intended for repeated use as per described in Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex V. Report the 3rd extractive result.

Sensorial examination odour and taste test

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, to determine sensorial examination odour and taste.

Test Method : With reference to DIN 10955:2004.
 Test media: Deionized water;
 No.of panelist: 6

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>
Test time (hr(s))	-	2
Temperature(°C)	-	70
Sensorial examination odour (Point scale)	2.5	0
Sensorial examination taste (Point scale)	2.5	0
Conclusion		PASS

Notes :

- Scale evaluation:
- 0 – no perceptible difference
 - 1 – just perceptible difference
 - 2 – slight difference
 - 3 – marked difference
 - 4 – strong difference

Leachable lead and cadmium content

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 with amendments, DIN 51032:1986, to determine leachable lead and cadmium.

Test Method : With reference to EN 1388-1/2:1995, analysis was performed by ICP-OES.

Sample 001 Hollowware
PASS

	<u>Vol. of 4% acetic acid used (mL)</u>	<u>Depth (mm)</u>
1	350	88



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	<u>Leachable lead</u> (mg/L)	<u>Leachable cad-</u> <u>mium (mg/L)</u>
1	<0.1	<0.01
Limit	4.0	0.3

Notes :

(1) Permissible limit of lead and cadmium is quoted from DIN51032:1986.

Table 1
Permissible limits for articles made from ceramics, glass ceramics with decorated inner surfaces, and for articles with enameled surfaces.

Items	Flatware		Hollow-ware		
	Lead mg/dm ²	Cadmium mg/dm ²	Lead mg/l	Cadmium mg/l	
Tableware Kitchen Equipment	Made from ceramic, glass and glass ceramics	0.8*)	0.07*)	4.0*)	0.3*)
	Enameled	0.8	0.07	0.8	0.07
Cooking & baking utensils, receptacles also used as packaging storage container	Made from ceramic, glass and glass ceramics	0.4	0.05	1.5*)	0.1*)
	Enameled	0.1	0.05	0.4	0.07
Samples for enameled container, part of equipment and water heater		0.1	0.05	-	-

Note: *) In agreement with EC Directive.

Specific migration of heavy metal

Test Requested : In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30 and 31 with amendments, European Commission Regulation (EU) No 10/2011 with amendments and BfR recommendations, to determine specific migration of heavy metal.

Test Method : With reference to EN13130-1:2004, analysis was performed by ICP-OES.

Sample 001

Simulant Used : 3% Acetic acid (W/V) aqueous solution

Test Condition : 100 °C 3.0 hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	Third
Area/volume	-	dm ² /kg	-	6.0



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Barium (Ba)	1	mg/kg	0.25	ND
Cobalt (Co)	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron(Fe)	48	mg/kg	0.25	ND
Lithium (Li)	0.6	mg/kg	0.5	ND
Manganese(Mn)	0.6	mg/kg	0.25	ND
Zinc(Zn)	25	mg/kg	0.5	ND

Conclusion

PASS

Notes :

(1) Test condition & simulat were specified by client.

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***

