

ZHEJIANG WUYI HAOTIAN INDUSTRY & TRADE CO., LTD  
PHOENIX HILL INDUSTRIAL ZONE, DONGGAN, WUYI, ZHEJIANG, CHINA

**The following sample(s) was/were submitted by/ on behalf of the client as:**

Sample Name: CERAMIC COATED (MINERAL BASED COATING) ALUMINIUM NON-STICK COOKWARE  
Manufacturer: ZHEJIANG WUYI HAOTIAN INDUSTRY & TRADE CO., LTD; DONGGUAN EASYFLON COATING CO.,LTD

Sample information: ITEM: FRY PAN, WORK, CASSEROLE; ITEM NO HT-JP、HT-SP、HT-WK

SGS reference no.: GZFD0100702870FD, GZ1007084627/CHEM

Date of receipt: Jul. 22, 2010

Testing period: Jul. 22, 2010 ~ Jul. 30, 2010

**TEST(S) REQUESTED:**

Selected test(s) as requested by applicant:

- A: As specified by client, with reference to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30&31 and DIN 51032: 1986.
  - 1) Sensorial examination odour and taste test.
  - 2) For material: Enamel – Leachable Lead and Cadmium.
- B: As specified by client, to determine Extractable Heavy Metals with reference to German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30.
- C: As specified by client, to analyze Chemical Composition of Aluminium alloys according to EN 601: 2004.

**TEST METHOD(S):**

A: 1) Robinson's test with reference to DIN10955: 2004-06

Test condition : 100°C, 2 hours

Test media : Distilled water

No. of panelist: Six

2) With reference to EN 1388: 1995.

Analysis was performed by ICP-OES.

B: Sample preparation in 3% acetic acid at 100°C for 2 hours, followed by analysis using Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

C: Acid digestion, followed by analysis using Inductively Coupled Argon Plasma Spectrometry.

**TEST RESULT(S):**

Please refer to next page(s).

Signed for and on behalf of  
SGS-CSTC Ltd.



Ramber Li  
Engineer

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**CONCLUSION:**

A: When tested as specified, the submitted sample comply with the limit as stated in the German Food, Articles of Daily Use and Feed Code of September 1, 2005 (LFGB), Section 30&31.

C: When tested as specified, the test results of submitted sample(s) comply with the Chemical Composition requirements of Aluminium alloys as stated in EN 601: 2004.

**TEST RESULT(S):**

A: 1)

Test Item	Test Result	Maximum Permissible Limit
	#1	
Sensorial examination odour (Point scale)	1	2.5
Sensorial examination taste (Point scale)	1	2.5

Remark:

Odour / Taste	Grade
No difference from natural sample	0
Just barely perceivable difference	1
Weak but definable difference	2
Clearly perceivable difference	3
Strong difference	4

2) Release of Lead and Cadmium

Hollow-ware 4

PASS

No.	Depth (mm)	Diameter (mm)	Extract Volume (ml)	Lead (mg/l)	Cadmium (mg/l)
#1					
1	30	204	750	< 0.1	< 0.01
2				< 0.1	< 0.01
3				< 0.1	< 0.01
4				< 0.1	< 0.01
Limit				0.4	0.07

Note : < = Less than

Remark:

Category	Internal depth (mm)	Material	range
Flatware 1	≤ 25	Ceramics, glass and glass ceramics	Tableware, kitchen equipment
Hollow-ware 1	> 25	Ceramics, glass and glass ceramics	Tableware, kitchen equipment
Flatware 2	≤ 25	Enamelled	Tableware, kitchen equipment
Hollow-ware 2	> 25	Enamelled	Tableware, kitchen equipment
Flatware 3	≤ 25	Ceramics, glass and glass ceramics	Cooking and baking utensils, receptacles also used as packaging storage containers
Hollow-ware 3	> 25	Ceramics, glass and glass ceramics	Cooking and baking utensils, receptacles also used as packaging storage containers

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Flatware 4	> 25	Enamelled	Cooking and baking utensils, receptacles also used as packaging storage containers
Hollow-ware 4	> 25	Enamelled	Cooking and baking utensils, receptacles also used as packaging storage containers
Flatware 5	Samples for enamelled containers parts or equipment and water heaters		
Drinking Rim	20 mm wide section of the external surface of a drinking vessel, measured downwards from the upper edge along the wall of the vessel		

B:

Test Item	Test Result (mg/dm <sup>2</sup> )	MDL (mg/dm <sup>2</sup> )	Maximum Permissible Limit (mg/dm <sup>2</sup> )
	#1		
Extractable Lead	N.D.	0.001	0.010
Extractable Cadmium	N.D.	0.001	0.005
Extractable Nickel	N.D.	0.01	0.1
Extractable Chromium	N.D.	0.01	0.45
Extractable Copper	N.D.	0.01	0.5
Extractable Cobalt	N.D.	0.1	N.D.
Extractable Antimony	N.D.	0.1	N.D.

Note : 1. mg/dm<sup>2</sup> = milligram per square decimeter  
 2. N.D. = Not Detected (< MDL)  
 3. MDL = Method Detection Limit

C:

No.	Test Item	Test Result (%)	MDL (%)	Permissible Limit (%)
		#2		
1	Si	0.07	0.01	13.5
2	Mg	< 0.01	0.01	11.0
3	Cr	0.01	0.01	0.35
4	Mn	0.70	0.01	4.0
5	Ti	0.03	0.01	0.3
6	Ni	0.01	0.01	3.0
7	Zr	N.D.	0.01	0.3
8	Fe	0.57	0.01	2.0
9	Zn	0.02	0.01	0.25
10	Cu	N.D.	0.01	0.6
11	Sb	N.D.	0.01	0.2
12	Sn	N.D.	0.01	0.10
13	Sr	N.D.	0.01	0.2

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- Note: 1. MDL= Method Detection Limit  
2. %=percentage by weight  
3. N.D. = Not Detected (< MDL)

**SAMPLE DESCRIPTION:** #1: Metal pan (white inside); #2: Silvery metal (base of metal pan)

Photo Appendix



#1 & #2: Test sample



SGS authenticate the photo on original report only  
\*\*\* End of Report\*\*\*

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