

Test Report No.: 168435932a 001

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Client: WEKO TRADE GMBH
In den Ziegelwiesen 25/1 D-69168 Wiesloch

Manufacturer's name: YANGJIANG DETONG INDUSTRIAL & TRADING CO.,LTD

Test item(s): KNIFE

Identification / Model No(s): 6 inch ceramic knife.

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2023-07-16

Testing Period: 2023-07-20 to 2023-07-25

Place of testing: Chemical laboratory Shenzhen

Test specification:

Performed parameter(s) for the compliance with the following regulations concerning materials in contact with foodstuff:

- German §31 LFGB (Lebensmittel-, Bedarfsgegenstände- und Futtermittelgesetzbuch)

Test conclusion:

PASS

Other Information:

Country of Origin: China

For and on behalf of TÜV Rheinland (Shenzhen) Co., Ltd.

Shine Wang

2023-07-26

Date

Shine Wang / Engineer

Name / Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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1 Sample List:

Sample No.	Material	Color	Location
1	Ceramic	White	Blade

2 Overall Results:

Test No.	Tested Item	Conclusion
1	Sensorial examination	Pass
2	Release of Heavy Metals from Ceramic Ware	Pass

3. Results

3.1 Sensorial examination

Test method: It is examined to the extent of food simulant being used, which comes into contact with the product, undergoes detectable changes in taste and smell.

For this purpose, the food simulant was stored in the product under the below mentioned time and temperature. Afterwards, the food simulant was examined by an appropriate number of tasters with regard to any divergence in smell and taste. Another test sample, which was used as a reference, was treated by the same way except that it had no contact with the product to be tested.

Before testing, the product had been cleaned according to the product's instruction manual or in the absence of such manual, by normal household cleaning.

The test is carried out on the basis of DIN 10955:2023 by paired comparison test:

Evaluation scheme:	0 =	No perceptible difference
	1 =	Just perceptible difference (still difficult to define)
	2 =	Slight difference (possible to define)
	3 =	Marked difference
	4 =	Strong difference
	Limit:	3 (failed)

The following food simulants and conditions were applied:

Food simulant	Test duration / Temperature
Water	30 min(s) / 70 °C

Test No.:	1
Sample No.:	1
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	0

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3.2 Release of Heavy Metals from Ceramic Ware

Test method: The test is performed reference to EN 1388-1:1995, EN 1388-2:1995 and DIN 51031:1986 respectively. The concentration of the elements is examined by means of atomic absorption spectroscopy or ICP-MS.

Limit: Pb, Cd: Directive 84/500/EEC
 Co: Working group of food chemistry experts from the federal states and the Federal Office of Consumer Protection and Food Safety (ALS), 109th Session 2017, Opinion No.2017/15
 Zn, Ba, Sb: Austrian Ceramic Ordinance

The following food simulant and condition was applied:

Food simulant	Test duration / Temperature
Acetic acid 4 %	24 hours/ 22 °C

Test No.:	1		
Category:	1		
Internal volume:	Less than one litre		
Sample No.:	1		
Parameter	Unit	Result	Limit ^(1,2)
Lead (Pb)	mg/dm ²	< 0.02	0.8
Cadmium (Cd)	mg/dm ²	< 0.002	0.07
Cobalt (Co)	mg/dm ²	< 0.01	0.02
Zinc (Zn)	mg/article	< 0.5	3.0
Barium (Ba)	mg/article	< 0.5	1.0
Antimony (Sb)	mg/article	< 0.5	1.0

Abbreviations:

mg/dm² = Milligram per square decimetre

mg/article = Milligram per article

mg/l = Milligram per litre

< = Less than

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Remarks:

*1 According to EU Directive 84/500/EEC, articles in contact with food should not exceed the following limits

Category	Description	Lead	Cadmium
1	Articles which can't and articles which can be filled, the internal depth of which, measured from the lowest point to the horizontal plane passing through the upper rim, does not exceed 25 mm	0.8 mg/dm ²	0.07 mg/dm ²
2	Other articles which can be filled	4.0 mg/l	0.3 mg/l
3	Cooking ware; packaging and storage vessels having a capacity of more than three litres	1.5 mg/l	0.1 mg/l

*2 According to Austrian Ceramic Ordinance (BGBl. Nr. 893/1993 and its amendment), articles in contact with food should not exceed the following limits:

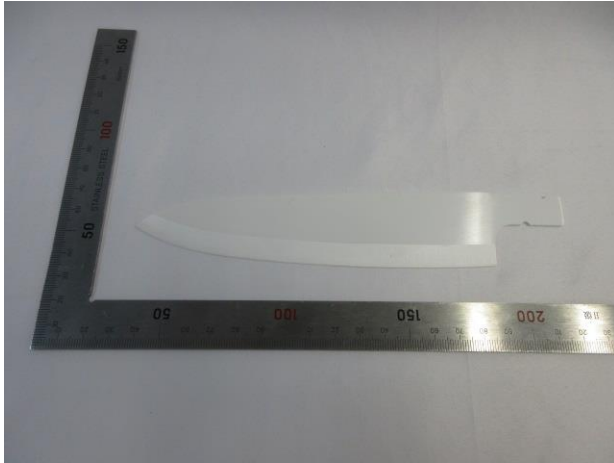
Category	Description	Zinc	Antimony	Barium
Internal volume	Less than one litre	3.0 mg/article ^(#)	1.0 mg/article ^(#)	1.0 mg/article ^(#)
	Greater than one litre	3.0 mg/l	1.0 mg/l	1.0 mg/l

(#) Calculation is based on the internal volume of the article

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4. Sample picture(s):



Sample No. 1

- END -

