



SUBJECT Chemical Test

TEST LOCATION TÜV SÜD China

TÜV SÜD Products Testing (Shanghai) Co., Ltd.
B-3/4, No.1999 Du Hui Road, Minhang District
Shanghai 201108, P.R. China

CLIENT NAME Near Dark GmbH

CLIENT ADDRESS Bonner Str 11a, 53773 Hennef, Germany

TEST PERIOD 23-Oct-2019-02-Dec-2019

TEST REQUEST In accordance with German Food & Feed Acts of September 1, 2005 (LFGB),
Section 30 and 31, and Recommendation of the BfR.

- Extractable heavy metal
- Sensory test

RESULT SUMMARY In accordance with German Food & Feed Acts of September 1, 2005 (LFGB),
Section 30 and 31, and Recommendation of the BfR.

- Extractable heavy metal
- Sensory test

PASS
PASS

Prepared By

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(Judy Hu)
Report Drafter

Authorized By

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Authorized Signatory

Note: (1) General Terms & Conditions as mentioned overleaf. (2) The results relate only to the items tested.(3) The test report shall not be reproduced except in full without the written approval of the laboratory.(4) Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.



RECEIPT DATE / TEST DATE

23-Oct-2019/ 23-Oct-2019

THE FOLLOWING SAMPLE(S) WAS/WERE SUBMITTED

BY/ ON BEHALF OF THE CLIENTS AS

Sample Name: stainless steel grinder

Sample Specification: 43 05 00/43 05 01/43 05 02/43 05 03/43 05 04/43 05 05/43 05 06/43
05 07/43 05 08/43 05 09/43 05 10/43 05 11/43 05 12/43 05 13/43
05 14/43 05 15/43 05 16/43 05 17/43 05 18/43 05 19/43 05 20/43 05 21
/43 05 22/43 05 23/43 05 24/43 05 25/43 05 26/43 05 27/43 05 28/43 05 29/43 05 30

Batch No./Date: /

Manufacturer: /

SAMPLE NO.	DESCRIPTION	PHOTOGRAPH
721650103	Silver metal grinder	

TEST METHOD(S)

1. Extractable Heavy Metal
- The sample was immersed in artificial tape water at 40°C for 10 days. The heavy metal content of extracting solution was then analysed using by ICP-MS.
2. Sensory test
- With reference to DIN 10955.
- The submitted sample was immersed in distilled water at 40°C for 10 days. After this treatment treated water was examined by panels with regard to any divergence in smell and taste.





TEST RESULT(S)

1. Extractable Heavy Metal

- Migration ratio: 35ml/0.39dm²

Test Item(s)	Result(s) [mg/kg]		Maximum Permissible Limit [mg/kg]*	
	3 rd migration	1 st + 2 nd migration	3 rd migration	1 st + 2 nd migration
Silver	<0.01	<0.02	0.08	0.56
Aluminium	0.039	<0.02	5	35
Cobalt	<0.01	<0.02	0.02	0.14
Chromium	<0.010	<0.020	0.250	1.75
Copper	<0.01	<0.02	4	28
Iron	<1.0	<2.0	40	280
Magnesium	0.398	0.651	--	--
Manganese	<0.10	<0.20	1.8	12.6
Molybdenum	<0.01	<0.02	0.12	0.84
Nickel	<0.01	<0.02	0.14	0.98
Tin	<1.0	<2.0	100	700
Titanium	<0.01	<0.02	--	--
Vanadium	<0.001	<0.002	0.01	0.07
Zinc	<0.10	<0.20	5	35
Arsenic	<0.001	<0.002	0.002	0.014
Barium	<0.01	<0.02	1.2	8.4
Beryllium	<0.001	<0.002	0.01	0.07
Cadmium	<0.001	<0.002	0.005	0.035
Mercury	<0.001	<0.002	0.003	0.021
Lithium	<0.010	<0.020	0.048	0.336
Lead	<0.001	<0.002	0.010	0.07
Antimony	<0.01	<0.02	0.04	0.28
Thallium	<0.0001	<0.0002	0.0001	0.0007

Note: 1. * denotes specification was quoted from Technical guide on metal and alloys used in food contact materials





2. Sensory test - With reference to DIN 10955

Sample(s)	Testing Parameter	Grading result(s)	Recommended level
721650103	Transfer of taste	0	<3
	Transfer of smell	0	<3

Note: 1. Available grading are listed as follow:

- Grading 0: No perceptible taste/smell deviation
- 1: Just perceptible taste/smell deviation
- 2: Weak taste/smell deviation
- 3: Clear taste/smell deviation
- 4: Strong taste/smell deviation

Note: This report is for internal use only by the client.

-END OF THE TEST REPORT-

