



Client: Cantra S.L
C / ALBERT EINSTEIN N.18, 4º SANTANDER CANTABRIA, SPAIN

Attn: PEDRO GANDARA

Manufacturing place: Same as above

Test subject: Product: MAGEFESA pressure cookers
Model: Athenas, Practika Plus, Favorit, Dynamic, DB, Astra, Nova, Prisma, Activa2

Test specification: Refer to next pages

Purpose of examination: Test according to the test specification

Test result:

1. The tested items **complied with** Res AP (2004) 5 on silicones to be used for food contact applications
 - Overall migration test
2. The tested items **complied with** Resolution CM/Res(2013) 9 and Article 3 of Regulation (EC) No. 1935/2004 (Materials and articles intended to come into contact with food).
 - Sensory test
 - Extractable Heavy Metal

Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4.

For full version, please visit: <http://www.tuv-sud.cn/zh-cn/terms-and-conditions>

Remarks : 1. The compositing testing was required by the client
2. The test items were specified by the applicant

TÜV SÜD Certification and Testing
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Shanghai Branch
TÜV SÜD Group

Project No.: 70.431.21.20765.03-00

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Date: 2021-12-24

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P.R.China



EXECUTIVE SUMMARY:

	TEST REQUESTED	CONCLUSION	Remark
1.	Overall Migration Test	Pass	-
2.	Sensory test	Pass	-
3.	Extractable Heavy Metal	Pass	-



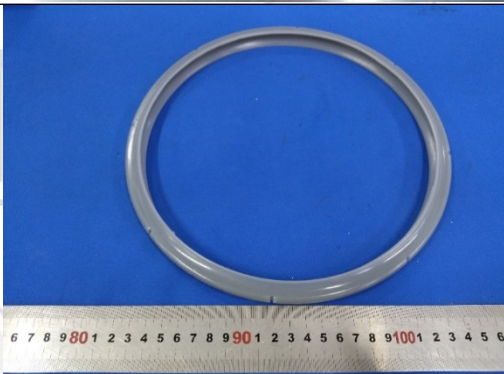


1. Description of the test subject

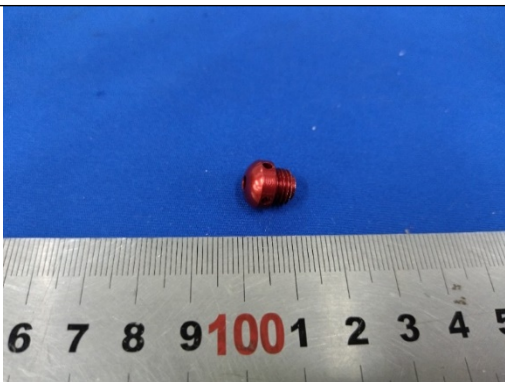
1.1 Technical Data

None

1.2. Test Item

No.	Description	Pictures	Remark
001	Silvery metal		-
002	Grey silicone ring		-
003	Silvery metal		-



No.	Description	Pictures	Remark
004	Red metal		-





2. Order

2.1 Date of Purchase Order, Customer's Reference

2021-08-04

2.2 Receipt of Test Sample, Location

2021-09-22

No. 1999 Duhui Road, Shanghai, P.R.China

TÜV SÜD Certification and Testing (China) Co., Ltd.

Shanghai Branch

2.3 Date of Testing

2021-09-23 to 2021-09-30

2.4 Location of Testing

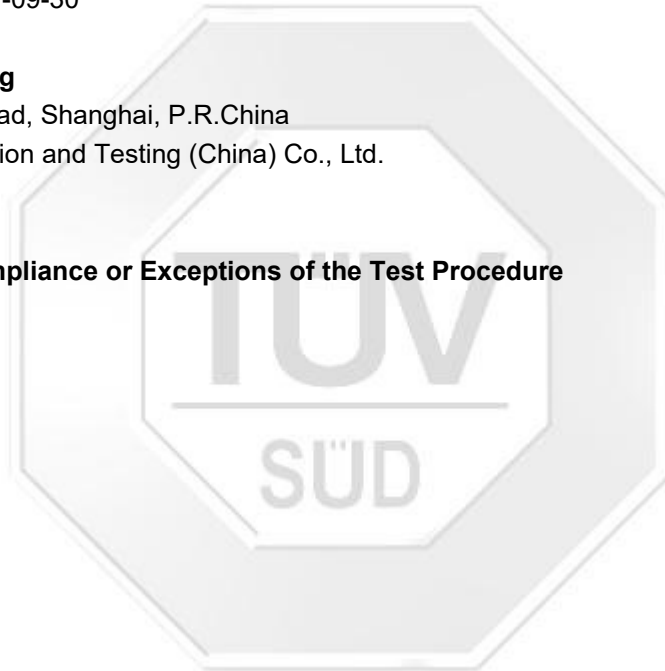
No. 1999 Duhui Road, Shanghai, P.R.China

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Shanghai Branch

2.5 Points of Non-compliance or Exceptions of the Test Procedure

None





3. Test Results

3.1 Overall Migration Test

With reference to EN 1186: Part 1, Part 3 and Part 14
Migration ratio(S/V): 5.12dm²/2800ml

Simulant(s) Used	Test Condition	Results [mg/dm ²] [#]	Maximum Permissible Limit [mg/dm ²]
		002	
3% Acetic acid	121°C for 2 hours	<0.500	10
10% Ethanol	121°C for 2 hours	<0.500	10
95% Ethanol	60°C for 4.5 hours	7.74	10
Isooctane	60°C for 2.5 hours	6.84	10
Conclusion	-	Pass	-

Note: 1. mg/dm² denotes milligram per square decimeter
2. < denotes less than
3. # denotes the result was calculated by assuming that the sample is used for inner surface of 9.33 dm² food container with a food contact surface of approx 5.12 dm²

3.2 Sensory test

With reference to DIN 10955:2004

The submitted sample was simulated in distilled water at 121°C for 2 hours. After this treatment treated water was examined by panels with regard to any divergence in smell and taste.

Sample(s)	Testing Parameter	Grading result(s)	Recommended level	Conclusion
001	Transfer of taste	0	<3	Pass
	Transfer of smell	0	<3	
003	Transfer of taste	0	<3	Pass
	Transfer of smell	0	<3	
004	Transfer of taste	0	<3	Pass
	Transfer of smell	0	<3	

Note: 1. < denotes less than
2. 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



3.3 Extractable Heavy Metal Test

Test method: The sample was simulated in 0.5% Citric Acid at 121°C for 2 hours. The heavy metal content of extracting solution was then analysed using by ICP-MS.

Test Item(s)	Result(s) [mg/kg]		Maximum Permissible Limit [mg/kg]*	
	001			
	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	<0.1	<0.2	5	35
Cobalt	<0.01	<0.02	0.02	0.14
Chromium	0.0205	0.101	0.250	1.75
Copper	<0.01	<0.02	4	28
Iron	<1.0	<2.0	40	280
Magnesium	0.0118	0.318	--	--
Manganese	<0.10	<0.20	1.8	12.6
Molybdenum	<0.01	<0.02	0.12	0.84
Nickel	<0.01	0.0291	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
Conclusion	Pass	Pass	-	-

- Note:
1. mg/kg denotes milligram per kilogram
 2. "<" denotes less than
 3. * denotes specification was quoted from Technical guide on metal and alloys used in food contact materials



3.3 Extractable Heavy Metal Test

Test method: The sample was simulated in artificial tap water at 121°C for 2 hours. The heavy metal content of extracting solution was then analysed using by ICP-MS.

Test Item(s)	Result(s) [mg/kg]		Maximum Permissible Limit [mg/kg]*	
	003			
	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	0.408	0.898	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	0.489	0.336	--	--
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
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3.3 Extractable Heavy Metal Test

Test method: The sample was simulated in artificial tap water at 121°C for 2 hours. The heavy metal content of extracting solution was then analysed using by ICP-MS.

Test Item(s)	Result(s) [mg/kg]		Maximum Permissible Limit [mg/kg]*	
	004			
	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	<0.1	0.552	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	0.487	0.342	--	--
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
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Conclusion	Pass	Pass	-	-

- Note:
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4. Remark

None

5. Documentation

Product Photo



Remarks : 1. The compositing testing was required by the client
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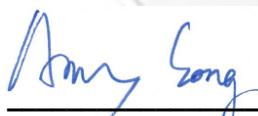
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