



Technical Report No. 68.401.20.0109.02A
Rev. 02
Dated 2020-04-02

Client: Guangdong Gao Bo Electrical Appliance Co., Ltd

Address: Area Gaoling West Industrial Park, Liangdong Town, Lianjiang City, Guangdong, China

Attn.: Mr. Zhang

Sample Description: RICE COOKER

Style No./Model No.: Please refer to APPENDIX II

Sample Received Date: 2020-01-13, 2020-03-03

Test Period: From 2020-01-13 to 2020-01-17;
From 2020-03-03 to 2020-03-11

Location of Testing: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Purpose of examination: As specified by client, to test as regulated by the German Food & Feed Acts LFGB (§ 30 & 31) and Regulation (EC) No.1935/2004

Test Result: Refer to following page(s)

Remark: The result relates only to the items tested.

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

Prepared by:

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Reviewed by:

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Designated Reviewer

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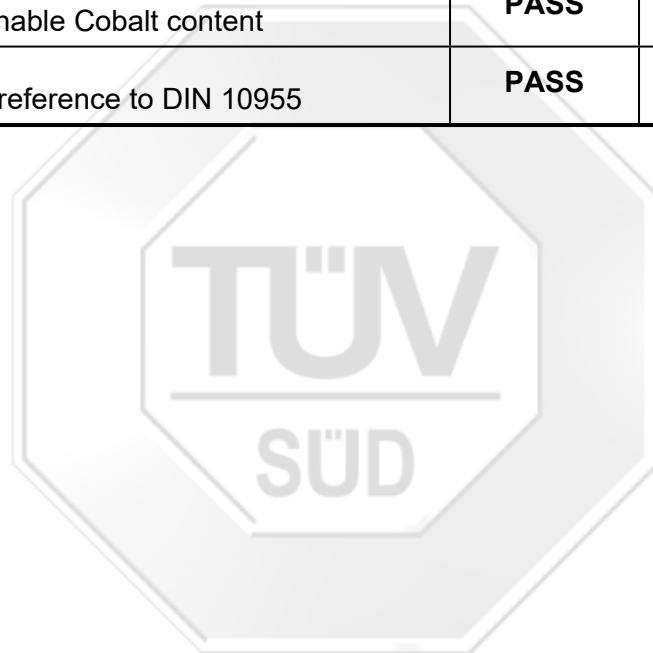
SUMMARY OF TEST RESULTS

No.	Test Requested	Conclusion	Remarks
1.	For material: Plastics or coating – Overall Migration test for compliance with regulation (EU) No. 10/2011, (EU) No. 2016/1416, (EU) No. 2017/752 and (EU) No. 2018/79	PASS	
2.	For material: Plastics or coating – Specific Migration of Heavy Metals (Ba, Co, Cu, Fe, Li, Mn, Zn, Al, Ni, W) for compliance with regulation (EU) No. 10/2011 and it's amendment (EU) No. 2016/1416, (EU) No. 2017/752 and (EU) No. 2018/79.	PASS	
3.	For material: Plastics or coating – Specific Migration of Primary Aromatic Amine for compliance with regulation (EU) 10/2011.	PASS	
4.	For material: Silicone – Extractable components	PASS	
5.	For material: Silicone / Rubber / Plastic – Remaining Peroxide	PASS	
6.	For material: Silicone / Rubber – Volatile Organic Matters	PASS	
7.	For material: Silicone – Total Platinum content	PASS	
8.	For material: Polycarbonates (PC)/Non-stick coating – Specific Migration of Bisphenol A for compliance with regulation (EU) No. 10/2011 and it's amendment (EU) No. 2018/213	PASS	
9.	For material: Polypropylene (PP) – Total Chromium, Vanadium, Zirconium and Hafnium content	PASS	
10.	For material: Non-stick coating – Specific Migration of Phenolic substances	PASS	
11.	For material: Non-stick coating – Specific Migration of Formaldehyde	PASS	



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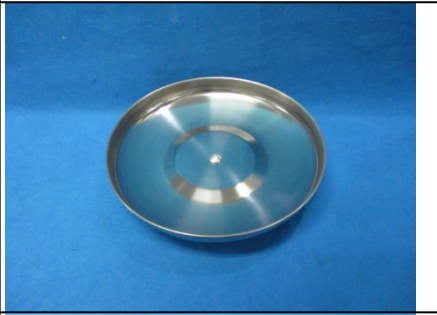
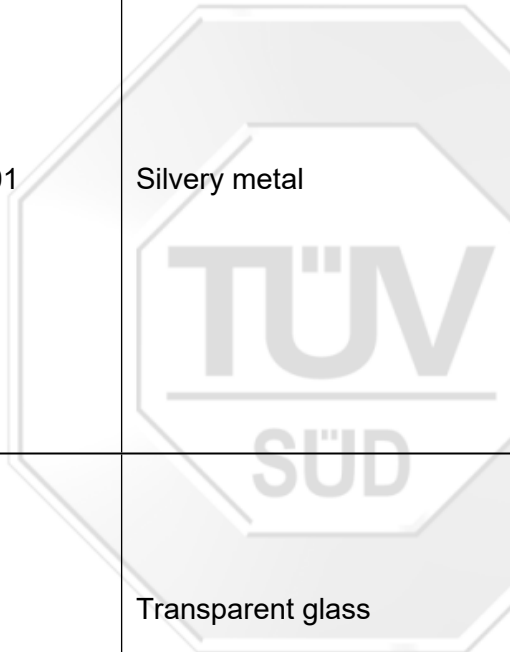
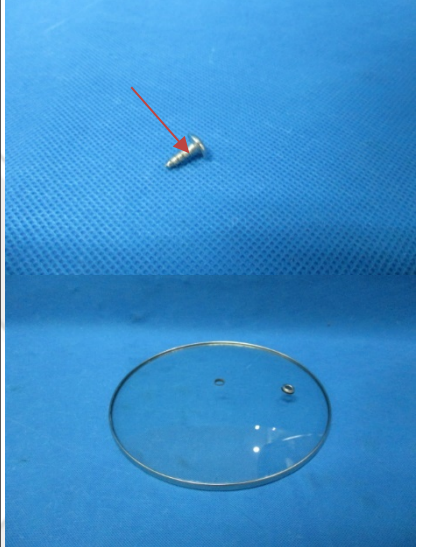
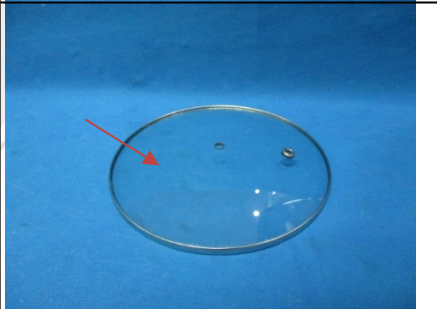
No.	Test Requested	Conclusion	Remarks
12.	For material: Metal and Metal alloy – Specific Migration of 21 Heavy Metals according to European Directorate for the Quality of Medicines & Healthcare Technical guide PA/PH/EMB (13) 9 and Resolution CM/Res(2013)9	PASS	
13.	For material: Glass and ceramics – Leachable Lead and Cadmium content test for compliance with DIN 51032, 84/500/EEC and 2005/31/EC.	PASS	
14.	For material: Glass and ceramics – Leachable Cobalt content	PASS	
15.	Sensory test – With reference to DIN 10955	PASS	



1. TESTED SUBJECT DESCRIPTION

Sample Number	Item Name	Tested Material Description	Photo
001	PP	Black plastic	
002	PP	White plastic	
003	PP	Transparent plastic	
004	Coating	Black Non-stick coating	

Sample Number	Item Name	Tested Material Description	Photo
005	Silicone	Translucence silicone	
006	Al alloy	 Silvery metal	
007	SUS 410	Silvery metal	

Sample Number	Item Name	Tested Material Description	Photo
			
008	SUS 201	Silvery metal 	
009	Glass	Transparent glass	

2. TEST RESULT

2.1. OVERALL MIGRATION TEST

Test method: As specified in Regulation (EU) No. 10/2011; with reference to EN 1186:part 1, part 2, part 3, part 8, part 9 & part 14 :2002.

Simulant Used	Test Condition	Result [mg/dm ²]		Maximum Permissible Limit [mg/dm ²]
		Sample 001	Sample 002	
3% Acetic Acid	100 °C for 2 hours	7.5	< 3.0	10
10% Ethanol	100 °C for 2 hours	< 3.0	< 3.0	10
Rectified Olive Oil	175 °C for 2 hours	< 3.0	< 3.0	10

Simulant Used	Test Condition	Result [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]
		Sample 003	
3% Acetic Acid	70 °C for 2 hours	< 3.0	10
10% Ethanol	70 °C for 2 hours	< 3.0	10
Rectified Olive Oil	70 °C for 2 hours	< 3.0	10

Simulant Used	Test Condition	Result [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]
		Sample 004	
3% Acetic Acid	100 °C for 2 hours	< 3.0	10
10% Ethanol	100 °C for 2 hours	< 3.0	10
95% Ethanol	60 °C for 6 hours	< 3.0	10
Isooctane	60 °C for 4 hours	< 3.0	10

Note:

- “°C” denotes degree Celsius
- “mg/dm²” denotes milligram per square decimeter
- “<” denotes less than
- The specification was quoted from regulation (EU) 10/2011.

2.2. SPECIFIC MIGRATION OF HEAVY METALS (Ba, Co, Cu, Fe, Li, Mn, Zn, Al, Ni, W) TEST

Test method: As specified in Regulation (EU) No. 10/2011, the sample(s) were migrated with food simulant, followed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) analysis.

Testing condition and simulant: 3% acetic acid at 100 °C for 2 hour(s).

Test Item		Result [mg/kg]		Maximum Permissible Limit [mg/kg]
		Sample 001	Sample 002	
Barium	(Ba)	<0.10	<0.10	1
Cobalt	(Co)	<0.05	<0.05	0.05
Copper	(Cu)	<0.50	<0.50	5
Iron	(Fe)	<1.00	<1.00	48
Lithium	(Li)	<0.10	<0.10	0.6
Manganese	(Mn)	<0.05	<0.05	0.6
Zinc	(Zn)	<1.00	<1.00	5
Aluminium	(Al)	<0.05	<0.05	1
Nickel	(Ni)	<0.02	<0.02	0.02
Tungsten	(W)	<0.02	<0.02	0.05

Testing condition and simulant: 3% acetic acid at 40 °C for 0.5 hour(s).

Test Item		Result [mg/kg]	Maximum Permissible Limit [mg/kg]
		Sample 003	
Barium	(Ba)	<0.10	1
Cobalt	(Co)	<0.05	0.05
Copper	(Cu)	<0.50	5
Iron	(Fe)	<1.00	48
Lithium	(Li)	<0.10	0.6
Manganese	(Mn)	<0.05	0.6
Zinc	(Zn)	<1.00	5
Aluminium	(Al)	<0.05	1
Nickel	(Ni)	<0.02	0.02
Tungsten	(W)	<0.02	0.05

Note:

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than
- The specification was quoted from regulation (EU) 10/2011 and it's amendments regulation (EU) 2016/1416, (EU) 2017/752, (EU) No. 2018/79.

2.3. SPECIFIC MIGRATION OF PRIMARY AROMATIC AMINE TEST

Test method: With reference to EN 1186-1: 2002, followed by Kunststoffe im Lebensmittelverkehr, Book 2, Teil B II, XXI. [Detection limit: 0.01 mg/kg]

Testing condition and simulant: 3% acetic acid at 100 °C for 2 hour(s).

Test Item	Result [mg/kg]		Maximum Permissible Limit [mg/kg]
	Sample 001	Sample 004	
Migration of Primary Aromatic Amine	< 0.01	< 0.01	Not Detected (< 0.01 mg/kg)

Note:

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than
- The specification was quoted from regulation (EU) 10/2011.

2.4. EXTRACTABLE COMPONENTS TEST

Test method: With reference to Kunststoffe im Lebensmittelverkehr, Book 2, Teil B II, XV.

Simulant Used	Test Condition	Result [%]	Maximum Permissible Limit [%]
		Sample 005	
Distilled water	Reflux for 5 hours	< 0.10	0.5
3% Acetic Acid	Reflux for 5 hours	< 0.10	0.5
10% Ethanol	Reflux for 5 hours	< 0.10	0.5

Note :

- “%” denotes percentage by weight
- “<” denotes less than
- The specification was quoted from Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr” Part XV “Silicone”

2.5. REMAINING PEROXIDE TEST

Test method : With reference to 58th Communication on the testing of plastics, Bundesgesundheitsbl. 40 (1997) 412.

Test Item	Result	Maximum Permissible Limit
	Sample 005	
Remaining Peroxide	Absent	Absent

Note:

- The specification was quoted from Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr Part XV and Part VI.

2.6. VOLATILE ORGANIC MATTER TEST

Test Method: With reference to 61st Communication on testing of plastics in Bundesgesundheitsbl 46 (2003) 362.

Test Item	Test Condition	Result [%]	Maximum Permissible Limit [%]
		Sample 005	
Volatile Organic Matter	200 °C for 4 hours	0.24	0.5

Note:

- “°C” denotes degree Celsius
- “%” denotes percentage by weight
- The specification was quoted from Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr Part XV “Silicones”

2.7. TOTAL PLATINUM CONTENT TEST

Test method: Microwave digestion, followed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) analysis.

Test Item	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
	Sample 005	
Total Platinum (Pt)	< 20.0	50

Note:

- “mg/kg” denotes milligram per kilogram
- “<” denotes less than
- The specification was quoted from Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr Part XV “Silicone”

2.8. SPECIFIC MIGRATION OF BISPHENOL A TEST

Test method: As specified in Regulation (EU) No. 10/2011, the sample(s) were migrated with food simulant, followed by Liquid Chromatography with Tandem Mass Spectrometry Detection (LC-MS/MS) analysis.

Testing condition and simulant: 95% ethanol at 60 °C for 6 hour(s).

Test Item	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
	Sample 004	
Migration of Bisphenol A	< 0.02	0.05

Note:

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than
- The specification was quoted from regulation (EU) 10/2011 and it’s amendment (EU) No. 2018/213.

2.9. TOTAL CHROMIUM, VANADIUM, ZIRCONIUM AND HAFNIUM CONTENT TEST

Test method: Microwave digestion, followed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) analysis.

Test Item	Result [mg/kg]			Maximum Permissible Limit [mg/kg]
	Sample 001	Sample 002	Sample 003	
Chromium (Cr)	< 10	< 10	< 10	10
Vanadium (V)	< 15	< 15	< 15	20
Zirconium (Zr)	< 15	< 15	< 15	100
Hafnium (Hf)	< 15	< 15	< 15	100

Note:

- “mg/kg” denotes miligram per kilogram
- “<” denotes less than
- The specification was quoted from Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr” Part VII “Polypropylene” and Part III “Polyethylene”.

2.10. SPECIFIC MIGRATION OF PHENOLIC SUBSTANCES TEST

Test method: With reference to DIN 53704:1988, the sample(s) were migrated with food stimulant, followed by Ultraviolet–visible Specphotometer (UV-Vis) analysis.

Testing condition and simulant: 3% acetic acid at 100 °C for 2 hour(s).

Test Item	Result [mg/dm ²]	Maximum Permissible Limit [mg/dm ²]
	Sample 004	
Migration of Phenolic Substances	< 0.05	0.05

Note:

- “mg/dm²” denotes milligram per square decimeter
- “<” denotes less than
- The specification was quoted from the Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr” Part LI “Temperature Resistant Polymer Coating Systems for Frying, Cooking and Baking Utensils”

2.11. SPECIFIC MIGRATION OF FORMALDEHYDE TEST

Test method: The sample(s) were migrated with food stimulant, followed by Ultraviolet–visible Specphotometer (UV-Vis) analysis.

Testing condition and simulant: 3% acetic acid at 100 °C for 2 hour(s).

Test Item	Result [mg/kg]	Maximum Permissible Limit [mg/kg]
	Sample 004	
Migration of Formaldehyde	< 1	15

Note:

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than
- The specification was quoted from the Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr” Part LI “Temperature Resistant Polymer Coating Systems for Frying, Cooking and Baking Utensils”

2.12. SPECIFIC MIGRATION OF HEAVY METAL CONTENT TEST

Test method: The sample(s) were extracted with food simulant, followed by analysis using Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES) and Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Testing condition and simulant: 0.5% citric acid at 100 °C for 2 hour(s).

No.	Test Item		Result [mg/kg]		Maximum Permissible Limit [mg/kg]	
			Sample 004		1 st +2 nd migration	3 rd migration
			1 st +2 nd migration	3 rd migration		
1.	Barium	(Ba)	<0.2	<0.1	8.4	1.2
2.	Copper	(Cu)	<0.2	<0.1	28	4
3.	Iron	(Fe)	<0.2	<0.1	280	40
4.	Tin	(Sn)	<1.0	<0.5	700	100
5.	Chromium	(Cr)	<0.1	<0.05	1.75	0.250
6.	Manganese	(Mn)	<0.2	<0.1	12.6	1.8
7.	Zinc	(Zn)	< 0.2	< 0.1	35	5
8.	Aluminum	(Al)	<0.2	<0.1	35	5
9.	Lithium	(Li)	<0.01	<0.005	0.336	0.048
10.	Beryllium	(Be)	< 0.004	<0.002	0.07	0.01
11.	Vanadium	(V)	< 0.004	< 0.002	0.07	0.01
12.	Nickel	(Ni)	<0.1	<0.05	0.98	0.14
13.	Cobalt	(Co)	<0.004	<0.002	0.14	0.02
14.	Arsenic	(As)	<0.0008	<0.0004	0.014	0.002
15.	Molybdenum	(Mo)	<0.004	<0.002	0.84	0.12
16.	Silver	(Ag)	<0.004	<0.002	0.56	0.08
17.	Cadmium	(Cd)	<0.0008	<0.0004	0.035	0.005
18.	Antimony	(Sb)	<0.01	<0.005	0.28	0.04
19.	Mercury	(Hg)	< 0.001	< 0.0005	0.021	0.003
20.	Thallium	(Tl)	< 0.0002	< 0.0001	0.0007	0.0001
21.	Lead	(Pb)	< 0.02	< 0.01	0.07	0.010

Note:

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than

(Continued)

Testing condition and simulant: 0.5% citric acid at 100 °C for 2 hour(s).

No.	Test Item		Result [mg/kg]		Maximum Permissible Limit [mg/kg]	
			Sample 006		1st+2nd migration	3rd migration
			1st+2nd migration	3rd migration		
1.	Barium	(Ba)	<0.2	<0.1	8.4	1.2
2.	Copper	(Cu)	<0.2	<0.1	28	4
3.	Iron	(Fe)	<0.2	<0.1	280	40
4.	Tin	(Sn)	<1.0	<0.5	700	100
5.	Chromium	(Cr)	<0.1	<0.05	1.75	0.250
6.	Manganese	(Mn)	<0.2	<0.1	12.6	1.8
7.	Zinc	(Zn)	< 0.2	< 0.1	35	5
8.	Aluminum	(Al)	0.9	0.6	35	5
9.	Lithium	(Li)	<0.01	<0.005	0.336	0.048
10.	Beryllium	(Be)	< 0.004	<0.002	0.07	0.01
11.	Vanadium	(V)	< 0.004	< 0.002	0.07	0.01
12.	Nickel	(Ni)	<0.1	<0.05	0.98	0.14
13.	Cobalt	(Co)	<0.004	<0.002	0.14	0.02
14.	Arsenic	(As)	<0.0008	<0.0004	0.014	0.002
15.	Molybdenum	(Mo)	<0.004	<0.002	0.84	0.12
16.	Silver	(Ag)	<0.004	<0.002	0.56	0.08
17.	Cadmium	(Cd)	<0.0008	<0.0004	0.035	0.005
18.	Antimony	(Sb)	<0.01	<0.005	0.28	0.04
19.	Mercury	(Hg)	< 0.001	< 0.0005	0.021	0.003
20.	Thallium	(Tl)	< 0.0002	< 0.0001	0.0007	0.0001
21.	Lead	(Pb)	< 0.02	< 0.01	0.07	0.010

Note:

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- “<” denotes less than

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Testing condition and simulant: 0.5% citric acid at 100 °C for 2 hour(s).

No.	Test Item		Result [mg/kg]		Maximum Permissible Limit [mg/kg]	
			Sample 007		1st+2nd migration	3rd migration
			1st+2nd migration	3rd migration		
1.	Barium	(Ba)	<0.2	<0.1	8.4	1.2
2.	Copper	(Cu)	<0.2	<0.1	28	4
3.	Iron	(Fe)	2.0	<0.1	280	40
4.	Tin	(Sn)	<1.0	<0.5	700	100
5.	Chromium	(Cr)	0.116	<0.05	1.75	0.250
6.	Manganese	(Mn)	<0.2	<0.1	12.6	1.8
7.	Zinc	(Zn)	< 0.2	< 0.1	35	5
8.	Aluminum	(Al)	<0.2	<0.1	35	5
9.	Lithium	(Li)	<0.01	<0.005	0.336	0.048
10.	Beryllium	(Be)	< 0.004	<0.002	0.07	0.01
11.	Vanadium	(V)	< 0.004	< 0.002	0.07	0.01
12.	Nickel	(Ni)	<0.1	<0.05	0.98	0.14
13.	Cobalt	(Co)	<0.004	<0.002	0.14	0.02
14.	Arsenic	(As)	<0.0008	<0.0004	0.014	0.002
15.	Molybdenum	(Mo)	<0.004	<0.002	0.84	0.12
16.	Silver	(Ag)	<0.004	<0.002	0.56	0.08
17.	Cadmium	(Cd)	<0.0008	<0.0004	0.035	0.005
18.	Antimony	(Sb)	<0.01	<0.005	0.28	0.04
19.	Mercury	(Hg)	< 0.001	< 0.0005	0.021	0.003
20.	Thallium	(Tl)	< 0.0002	< 0.0001	0.0007	0.0001
21.	Lead	(Pb)	< 0.02	< 0.01	0.07	0.010

Note:

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than

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Testing condition and simulant: 0.5% citric acid at 100 °C for 2 hour(s).

No.	Test Item		Result [mg/kg]		Maximum Permissible Limit [mg/kg]	
			Sample 008		1st+2nd migration	3rd migration
			1st+2nd migration	3rd migration		
1.	Barium	(Ba)	<0.2	<0.1	8.4	1.2
2.	Copper	(Cu)	<0.2	<0.1	28	4
3.	Iron	(Fe)	6.2	1.9	280	40
4.	Tin	(Sn)	<1.0	<0.5	700	100
5.	Chromium	(Cr)	0.172	<0.05	1.75	0.250
6.	Manganese	(Mn)	1.1	0.3	12.6	1.8
7.	Zinc	(Zn)	< 0.2	< 0.1	35	5
8.	Aluminum	(Al)	<0.2	<0.1	35	5
9.	Lithium	(Li)	<0.01	<0.005	0.336	0.048
10.	Beryllium	(Be)	< 0.004	<0.002	0.07	0.01
11.	Vanadium	(V)	< 0.004	< 0.002	0.07	0.01
12.	Nickel	(Ni)	<0.1	<0.05	0.98	0.14
13.	Cobalt	(Co)	0.008	0.002	0.14	0.02
14.	Arsenic	(As)	<0.0008	<0.0004	0.014	0.002
15.	Molybdenum	(Mo)	<0.004	<0.002	0.84	0.12
16.	Silver	(Ag)	<0.004	<0.002	0.56	0.08
17.	Cadmium	(Cd)	<0.0008	<0.0004	0.035	0.005
18.	Antimony	(Sb)	<0.01	<0.005	0.28	0.04
19.	Mercury	(Hg)	< 0.001	< 0.0005	0.021	0.003
20.	Thallium	(Tl)	< 0.0002	< 0.0001	0.0007	0.0001
21.	Lead	(Pb)	< 0.02	< 0.01	0.07	0.010

Note:

- “°C” denotes degree Celsius
- “mg/kg” denotes milligram per kilogram foodstuff
- “<” denotes less than

2.13. LEACHABLE LEAD AND CADMIUM CONTENT TEST

Test method: With reference to BS EN 1388: Part 1: 1996 and BS EN 1388: Part 2: 1996.

Test Item	Unit	Result	Maximum Permissible Limit
		Sample 009	
Leachable Lead (Pb)	mg/dm ²	< 0.10	0.8
Leachable Cadmium (Cd)	mg/dm ²	< 0.02	0.07

Note:

- “mg/dm²” denotes milligram per square decimeter
- “<” denotes less than
- The specification was quoted from directive 84/500/EEC for article as flatware (category 1).

2.14. LEACHABLE COBALT CONTENT TEST

Test method: With reference to BS EN 1388: Part 1: 1996 and BS EN 1388: Part 2: 1996.

Test Item	Unit	Result	Maximum Permissible Limit
		Sample 009	
Leachable Cobalt (Co)	mg/L	<0.05	0.1

Note:

- “mg/L” denotes milligram per Litre
- “<” denotes less than
- The specification was quoted from Germany Bavarian State Ministry of Justice and Consumer Protection.

2.15. SENSORY TEST

Test method: With reference to DIN 10955: 2004. The submitted sample was treated with food stimulant. After this treatment, treated water was examined by panels with regard to any divergence in smell and taste.

Testing condition and simulant: Distilled water at 100 °C for 2 hour(s) .

Test Item	Grading Result		Recommended Level
	Sample 001+002	Sample 003	
Transfer of Smell	1	1	< 2.5
Transfer of Taste	1	1	< 2.5

Test Item	Grading Result		Recommended Level
	Sample 004	Sample 005	
Transfer of Smell	1	1	< 2.5
Transfer of Taste	1	1	< 2.5

Test Item	Grading Result		Recommended Level
	Sample 006	Sample 007+008+009	
Transfer of Smell	1	1	< 2.5
Transfer of Taste	1	1	< 2.5

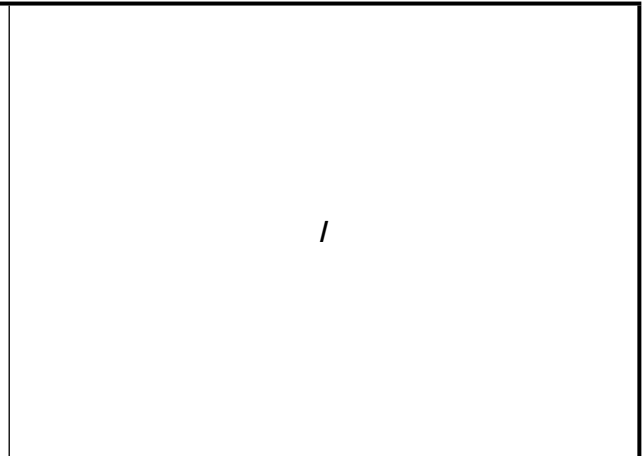
Note:

- “<” denotes less than
- Explanation for grading are listed as below:
 Grading 0: No perceptible taste/smell deviation
 Grading 1: Just perceptible taste/smell deviation
 Grading 2: Weak taste/smell deviation
 Grading 3: Clear taste/smell deviation
 Grading 4: Strong taste/smell deviation

APPENDIX I:

Photos of submitted products





APPENDIX II:

According to client's declaration, tested material would be produced as relevant product(s):

Style No./Model No.:

RC03-y, RC06A-*yz, SRC06a-*xyz, RC06B-*yz, RC08-*yz, SRC06a1-*xyz, RC10A-*yz, RC12A-*yz, SRC10a-*xyz, SRC12a-*xyz, DRC10a-*xmz, DRC12a-*xmz, RC10B-*yz, RC12B-*yz, SRC10a1-*xyz, SRC12a1-*xyz, DRC10a1-*xmz, DRC12a1-*xmz, RC15A-*yz, SRC15a-*xyz, DRC15a-*xmz, RC15B-*yz, SRC15a1-*xyz, DRC15a1-*xmz, SRC18a2-*xyz, RC18B-*yz, SRC18a1-*xyz, DRC18a1-*xmz, RC18A-*yz, SRC18a-*xyz, DRC18a-*xmz, RC18C-*yz, RC22B-*yz, SRC22a1-*xyz, DRC22a1-*xmz, RC22A-*yz, SRC22a-*xyz, DRC22a-*xmz, RC28B-*yz, SRC28a1-*xyz, DRC28a2-*xmz, RC28A-*yz, SRC28a-*xyz, DRC28a1-*xmz, DRC28a-*xmz, DRC32a-*xmz, RC36B-*yz, DRC32a1-*xmz, DRC36a1-*xmz, RC36A-*yz, DRC36a-*xmz, RC42B-*yz, RC42A-*yz, RC56B-*yz, RC56A-*yz, RC78A-*yz, RC78B-*yz, RC80B-*yz, RC80A-*yz, RC85B-*yz, RC85A-*yz, RC100C-*yz, RC120C-*yz, RC100A-*yz, RC100B-*yz, RC120B-*yz, RC120A-*yz (a = C or S, * = A to P, a to y, x = V, W or P, y = X or Y, m = A to O, z = 1, 2 or 3)

2) RC06-*, RC10-*, RC15-*, RC18-*, RC22-*, RC28-*, DRC10a-*xyz, DRC15a-*xyz, DRC18a-*xyz, DRC22a-*xyz, DRC25a-*xyz, DRC25a-*xyz, (a = S, * = A to Z, X = V or W, y = A or B, Z = 1)

3) DRC25S-AVC2, DRC30S-AVC2, DRC35S-AVC2, DRC55S-AVC2, GAOBO-10B, GAOBO-13B, GAOBO-16B, GAOBO-18B, GAOBO-20B, GAOBO-22B, GAOBO-25B