

Test Report

No.: SHAEC23014437401

Date: Sep 19, 2023

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Client Name: Jin hua Dong rui New material co.,ltd.

Client Address: linxia industrial zone jindong area jinhua city zhejiang,china

Sample Name: Inner bacteriostatic ceramic coating thermos cup

The above sample(s) and information were provided by the client.

SGS Job No.: SHP23-012345
 Sample Receiving Date: Sep 08, 2023
 Testing Period: Sep 08, 2023 ~ Sep 19, 2023
 Test Requested: Select test(s) as requested by the client.
 Test Method(s): Please refer to next page(s).
 Test Result(s): Please refer to next page(s).

	Test Requirement	Comment
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation - Specific migration of primary aromatic amine (individual)	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Council Directive 84/500/EEC & its amendment 2005/31/EC - Leachable Lead and Cadmium	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Europe Resolution CM/Res(2013)9 - Extractable Heavy Metals	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 1, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation - Overall Migration	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation - Specific migration of heavy metals	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
 SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Carol Luo

Carol Luo
 Approved Signatory

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scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A.C001	SHA23-0144374-0001.C001	Silvery metal with white coating	Stainless steel with ceramic coating

Remarks:

- (1) mg/dm² = milligram per square decimeter
 µg/cm² = microgram per square centimeter
 mg/L = milligram per litre
 mg/kg = milligram per kilogram
- (2) °C = degree Celsius
- (3) <= less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No	Overall Migration	Specific Migration
A.C001	3.7 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS-MS.

Simulant	Test Condition
	A.C001
3% Acetic acid (W/V)	40°C, 0.5 hr

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A.C001		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A.C001		
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenebis-(2-chloroaniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Aminoazobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A.C001		
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chloro-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chloro-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND
1,2-Phenylenediamine	95-54-5	-	mg/kg	0.002	ND	ND	ND
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A.C001			
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For repeated use, compliance of the material or article is verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test. For substances which limit is "Not Detected", the compliance is based on the first migration test result if it is detected.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, European Council Directive 84/500/EEC & its amendment 2005/31/EC - Leachable Lead and Cadmium

Test Method: With reference to European Council Directive 84/500/EEC & its amendment 2005/31/EC, analysis was performed by AAS/ICP-OES.

A.C001 Category 2 Pass

	Vol. of 4% acetic acid used (mL)	Depth (mm)
1	330	90

	Leachable Lead (mg/L)	Leachable Cadmium (mg/L)
1	<0.1	<0.01
Limit	4.0	0.3

Notes:

- (1) Category 1: Articles that cannot be filled and articles that can be filled, the internal depth of which does not exceed 25 mm.
- (2) Category 2: Articles, not in categories 1 or 3, which can be filled.
- (3) Category 3: Cooking ware; packaging and storage vessels having a capacity of more than three liters.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Europe Resolution CM/Res(2013)9 - Extractable Heavy Metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES and ICP-MS.

Simulant used:	Artificial tap water
Test condition:	40°C, 0.5 hr
Area/Volume	6.0dm ² /kg

Test Item(s)	Unit(s)	RL	(1 st +2 nd) Migration		3 rd Migration	
			Limit	A.C001	Limit	A.C001
Aluminium (Al)	mg/kg	0.2	35	ND	5	ND
Antimony (Sb)	mg/kg	0.02	0.28	ND	0.04	ND
Chromium(Cr)	mg/kg	0.1	1.75	ND	0.25	ND
Cobalt(Co)	mg/kg	0.01	0.14	ND	0.02	ND
Copper(Cu)	mg/kg	0.1	28	ND	4	ND
Iron(Fe)	mg/kg	0.25	280	ND	40	ND
Manganese(Mn)	mg/kg	0.25	12.6	ND	1.8	ND
Molybdenum(Mo)	mg/kg	0.02	0.84	ND	0.12	ND
Nickel(Ni)	mg/kg	0.05	0.98	ND	0.14	ND
Silver(Ag)	mg/kg	0.03	0.56	ND	0.08	ND
Tin(Sn)	mg/kg	5	700	ND	100	ND
Vanadium(V)	mg/kg	0.005	0.07	ND	0.01	ND
Zinc(Zn)	mg/kg	1	35	ND	5	ND
Arsenic(As)	mg/kg	0.001	0.014	ND	0.002	ND
Barium(Ba)	mg/kg	0.25	8.4	ND	1.2	ND
Beryllium(Be)	mg/kg	0.005	0.07	ND	0.01	ND
Cadmium(Cd)	mg/kg	0.002	0.035	ND	0.005	ND
Lead(Pb)	mg/kg	0.005	0.07	ND	0.01	ND
Lithium(Li)	mg/kg	0.02	0.336	ND	0.048	ND
Mercury(Hg)	mg/kg	0.002	0.021	ND	0.003	ND
Thallium(Tl)	mg/kg	0.0001	0.0007	ND	0.0001	ND
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) Requirement for repeat use article: According to Council of Europe Resolution CM/Res(2013)9, the result from 3rd migration shall comply with the Specific Release Limit (SRL) and the sum of 1st and 2nd migration shall not exceed seven times of SRL for repeated use articles.
- (3) Acidic foodstuff is not considered for compliance.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Council of Europe Resolution AP (2004) 1, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants



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Test Condition				
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A.C001	70°C, 2 hrs	70°C, 2 hrs	60°C, 2 hrs	40°C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A.C001 (1 st Migration)	A.C001 (2 nd Migration)	A.C001 (3 rd Migration)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- Analytical tolerance of evaporable simulants is 2 mg/dm² or 12 mg/kg, analytical tolerance of olive oil simulant is 3 mg/dm² or 20 mg/kg.
- Test condition & simulant were specified by client.
- A material or article with overall migration result that exceeds the overall migration limit by an amount not exceeding the analytical tolerance, shall be deemed to be in compliance with the overall migration limit.
- For repeated use, compliance of the material or article is verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2020/1245 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A.C001
3% Acetic acid (W/V)	40°C, 0.5 hr

Test Item(s)	Limit	Unit(s)	RL	A.C001		
				First	Second	Third
3% Acetic acid (W/V)						
Migration times						
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.1	ND	ND	ND
Barium(Ba)	1	mg/kg	0.25	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	RL	A.C001		
Copper(Cu)	5	mg/kg	0.25	ND	ND	ND
Iron(Fe)	48	mg/kg	5	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.1	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.1	ND	ND	ND
Zinc(Zn)	5	mg/kg	0.5	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.025	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.025	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.025	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.025	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment				Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For repeated use, compliance of the material or article is verified on the basis of the level of the migration found in the third test and on the basis of the stability of the material or article from the first to the third migration test. For substances which limit is "Not Detected", the compliance is based on the first migration test result if it is detected.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2023.
No. of panelist: 6

Test Media	Test Condition
	A.C001
Distilled water	40°C, 0.5 hr

Test Item(s)	Limit	Unit(s)	A.C001
Area/Volume	-	dm ² /kg	7.4
Sensorial examination odour	2.5	-	0
Sensorial examination taste	2.5	-	0
Comment	Pass		

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference



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Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ($w=0$) stated in ILAC-G8:09/2019.



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