

FCM TEST REPORT

Applicant	Chaozhou Chao'an Caitang Tianjia Hardware Factory
Address	Industrial Zone, Longzhaimen Section, Cailian Road, Caitang Village, Caitang Town, Chao'an District, Chaozhou City, Guangdong Province
Manufacturer	Chaozhou Chao'an Caitang Tianjia Hardware Factory
Address	Industrial Zone, Longzhaimen Section, Cailian Road, Caitang Village, Caitang Town, Chao'an District, Chaozhou City, Guangdong Province
Sample Name	Thermal container
Model	250701
Date of Receipt	Jul. 11, 2025
Date of Test	Jul. 11, 2025 to Jul. 15, 2025
Date of Report	Jul. 18, 2025
Test laboratory	Guangdong KAIXU Testing Technology Co., Ltd.
Test location	Room 215, Building 2, No. 123, Dongcheng Section, Guanlong Road, Dongcheng Street, Dongguan City, Guangdong Province, China
CPSC LAB ID	1877

Test Conclusion:

Test Requested	Result
As requested by the applicant, refer to attached page(s) for details.	See next page

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of KAIXU Test International

Tested by: Cathy

Approved by: Martin

Summary of Test Results:

Test Requested		Conclusion
Selected test (s) in the selected parts as requested by client with the Regulation (EC) No 1935/2004 and EDQM CM/Res(2020)9 Metals and Alloys used in food contact materials and articles 2024 EDQM 2nd Edition		
1.For Material: Stainless Steel		
1.1	Sensory test-taste and odour to the integrate product	PASS
1.2	Migration of Heavy Metals	PASS
1.3	Overall migration	PASS

Test Result:

1.For Material: Stainless Steel

1.1 Sensory test-taste and odour to the integrate product

Test Method: Sensorial examination odour and taste test with reference to DIN10955:2024-01;

Test condition: Odour test:70°C, 2 hours;

Taste test: sunflower oil ,70°C, 2 hours.

Test Item (s)	Test Result		Limit
	1	2	
Sensorial examination odour (Point scale)	0	0	2.5
Sensorial examination taste (Point scale)	0	0	2.5

- Note: Odour/Taste Grade
- 0= No perceptible difference
 - 1= Just perceivable difference(still difficult to define)
 - 2= Slight difference
 - 3= Marked difference
 - 4= Strong difference
 - 5. This part of the test is holistic test

1.2 Migration of Heavy Metals

Test Method: With reference to CM/Res (2020)9

Test condition: Artificial tap water ,70°C, 2 hours

Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES),
Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

Test Item(s)	Unit	MDL	Result		Requirement	
			1		7*SRL	SRL
			1 st +2 nd	3 rd		
Aluminium (Al)	mg/kg	0.1	N.D.	N.D.	35	5
Antimony (Sb)	mg/kg	0.001	N.D.	N.D.	0.28	0.04
Chromium (Cr)	mg/kg	0.1	N.D.	N.D.	7	1
Cobalt (Co)	mg/kg	0.001	N.D.	N.D.	0.14	0.02
Copper (Cu)	mg/kg	0.1	N.D.	N.D.	28	4
Iron (Fe)	mg/kg	1	N.D.	N.D.	280	40
Manganese (Mn)	mg/kg	0.1	N.D.	N.D.	3.85	0.55
Molybdenum (Mo)	mg/kg	0.01	N.D.	N.D.	0.84	0.12
Nickel (Ni)	mg/kg	0.01	N.D.	N.D.	0.98	0.14
Silver (Ag)	mg/kg	0.001	N.D.	N.D.	0.56	0.08
Tin (Sn)	mg/kg	1	N.D.	N.D.	700	100
Vanadium (V)	mg/kg	0.001	N.D.	N.D.	0.07	0.01

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Test Item(s)	Unit	MDL	Result		Requirement	
			1		7*SRL	SRL
			1 st +2 nd	3 rd		
Zinc (Zn)	mg/kg	0.1	N.D.	N.D.	35	5
Arsenic (As)	mg/kg	0.001	N.D.	N.D.	0.014	0.002
Barium (Ba)	mg/kg	0.1	N.D.	N.D.	8.4	1.2
Beryllium (Be)	mg/kg	0.001	N.D.	N.D.	0.07	0.01
Cadmium (Cd)	mg/kg	0.001	N.D.	N.D.	0.035	0.005
Lead (Pb)	mg/kg	0.001	N.D.	N.D.	0.07	0.01
Lithium (Li)	mg/kg	0.001	N.D.	N.D.	0.336	0.048
Mercury (Hg)	mg/kg	0.001	N.D.	N.D.	0.021	0.003
Thallium (Tl)	mg/kg	0.0001	N.D.	N.D.	0.007	0.001
Zirconium(Zr)	mg/kg	0.1	N.D.	N.D.	14	2
Magnesium (Mg)	mg/kg	0.001	N.D.	N.D.	–	–
Titanium (Ti)	mg/kg	0.001	N.D.	N.D.	–	–

Test Item(s)	Unit	MDL	Result		Requirement	
			2		7*SRL	SRL
			1 st +2 nd	3 rd		
Aluminium (Al)	mg/kg	0.1	N.D.	N.D.	35	5
Antimony (Sb)	mg/kg	0.001	N.D.	N.D.	0.28	0.04
Chromium (Cr)	mg/kg	0.1	N.D.	N.D.	7	1
Cobalt (Co)	mg/kg	0.001	N.D.	N.D.	0.14	0.02
Copper (Cu)	mg/kg	0.1	N.D.	N.D.	28	4
Iron (Fe)	mg/kg	1	N.D.	N.D.	280	40
Manganese (Mn)	mg/kg	0.1	N.D.	N.D.	3.85	0.55
Molybdenum (Mo)	mg/kg	0.01	N.D.	N.D.	0.84	0.12
Nickel (Ni)	mg/kg	0.01	N.D.	N.D.	0.98	0.14
Silver (Ag)	mg/kg	0.001	N.D.	N.D.	0.56	0.08
Tin (Sn)	mg/kg	1	N.D.	N.D.	700	100
Vanadium (V)	mg/kg	0.001	N.D.	N.D.	0.07	0.01
Zinc (Zn)	mg/kg	0.1	N.D.	N.D.	35	5
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Barium (Ba)	mg/kg	0.1	N.D.	N.D.	8.4	1.2
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Test Item(s)	Unit	MDL	Result		Requirement	
			2		7*SRL	SRL
			1 st +2 nd	3 rd		
Cadmium (Cd)	mg/kg	0.001	N.D.	N.D.	0.035	0.005
Lead (Pb)	mg/kg	0.001	N.D.	N.D.	0.07	0.01
Lithium (Li)	mg/kg	0.001	N.D.	N.D.	0.336	0.048
Mercury (Hg)	mg/kg	0.001	N.D.	N.D.	0.021	0.003
Thallium (Tl)	mg/kg	0.0001	N.D.	N.D.	0.007	0.001
Zirconium(Zr)	mg/kg	0.1	N.D.	N.D.	14	2
Magnesium (Mg)	mg/kg	0.001	N.D.	N.D.	–	–
Titanium (Ti)	mg/kg	0.001	N.D.	N.D.	–	–

- Note:
1. mg/kg=milligram per kilogram
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. SRL = Specific Release Limit

1.3. Overall Migration

Test Method: Regulation(EU)10/2011, With reference to EN 13130-1:2004, EN 1186-1:2002, EN 1186-2:2022, EN1186-3:2022

Stimulant used	Test condition	Test Result (mg/dm ²)			Maximum permissible Limit (mg/dm ²)
		1			
		1 st	2 nd	3 rd	
Distilled water	2 hours at 70 °C	<2.0	<2.0	<2.0	10
3 % acetic acid	2 hours at 70 °C	<2.0	<2.0	<2.0	10
10% Ethanol	2 hours at 70 °C	<2.0	<2.0	<2.0	10
95% Ethanol	2 hours at 70 °C	<2.0	<2.0	<2.0	10
Isooctane	2 hours at 70 °C	<2.0	<2.0	<2.0	10

Stimulant used	Test condition	Test Result (mg/dm ²)			Maximum permissible Limit (mg/dm ²)
		2			
		1 st	2 nd	3 rd	
Distilled water	2 hours at 70 °C	<2.0	<2.0	<2.0	10
3 % acetic acid	2 hours at 70 °C	<2.0	<2.0	<2.0	10
10% Ethanol	2 hours at 70 °C	<2.0	<2.0	<2.0	10
95% Ethanol	2 hours at 70 °C	<2.0	<2.0	<2.0	10
Isooctane	2 hours at 70 °C	<2.0	<2.0	<2.0	10

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- Note:
1. mg/dm²=milligram per square decimeter
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit

Sample Description:

Material No.	Description	Material
1	Silver metal bucket	Stainless steel
2	Silver metal bucket lid	Stainless steel

Tested sample photos



-----THE END OF REPORT-----