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**Test Report No. BAN 317405/1**  
**Issue Date: 19 July 2023**

The following sample was submitted and identified by the client as:

**Sample Name:** 500ml Thermal Bottle

**Sample Description:** 500ml Thermal Bottle

**Sample Reference:** DKW101-STM (ZJ-062)

**Date of Receipt:** 06<sup>th</sup> July 2023

**Testing Period:** Testing conducted between 11<sup>th</sup> July 2023 and 18<sup>th</sup> July 2023.  
(Please note that this testing was conducted at another laboratory within the SGS group of companies)

**Test Method and Results:** See appendix

Test Requested		Conclusion
1.	Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9 and hence Article 3 of European Regulation No. 1935/2004.	--
	a) Metal / Metallic Coating – Extractable Heavy Metals	PASS

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

Signed for and on behalf of  
SGS United Kingdom Ltd.



Tracy Lai  
Chemical Laboratory Manager

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## Appendix

### Test Results:

#### 1. Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9

##### a) Metal / Metallic coating – Extractable heavy metals

Method : Sample preparation in 0.5% citric acid (p/v) at fill with simulant at 100°C and keep closed for 24 hours with reference to EN13130-1:2004 for selection of test method, followed by analysis using Inductively Coupled Argon Plasma Spectrometry (ICP) and Inductively coupled plasma-mass spectrometry (ICP-MS).

Test Item	Unit	Migration Result		Reporting Limit	7 x SRL	Specific Release Limit (SRL)
		1				
		1 <sup>st</sup> + 2 <sup>nd</sup> Migration	3 <sup>rd</sup> Migration			
Surface area to volume ratio	dm <sup>2</sup> /kg	7	7	--	--	--
Aluminium (Al)	mg/kg	ND	ND	0.2	35	5
Antimony (Sb)	mg/kg	ND	ND	0.02	0.28	0.04
Arsenic (As)	mg/kg	ND	ND	0.001	0.014	0.002
Barium (Ba)	mg/kg	ND	ND	0.25	8.4	1.2
Beryllium (Be)	mg/kg	ND	ND	0.005	0.07	0.01
Cadmium (Cd)	mg/kg	ND	ND	0.002	0.035	0.005
Chromium (Cr)	mg/kg	ND	ND	0.1	1.75	0.25
Cobalt (Co)	mg/kg	ND	ND	0.01	0.14	0.02
Copper (Cu)	mg/kg	ND	ND	0.1	28	4
Iron (Fe)	mg/kg	ND	ND	0.25	280	40
Lead (Pb)	mg/kg	ND	ND	0.005	0.07	0.01
Lithium (Li)	mg/kg	ND	ND	0.02	0.336	0.048
Manganese (Mn)	mg/kg	ND	ND	0.25	12.6	1.8
Mercury (Hg)	mg/kg	ND	ND	0.002	0.021	0.003
Molybdenum (Mo)	mg/kg	ND	ND	0.02	0.84	0.12
Nickel (Ni)	mg/kg	ND	ND	0.05	0.98	0.14
Silver (Ag)	mg/kg	ND	ND	0.03	0.56	0.08
Thallium (Tl)	mg/kg	ND	ND	0.0001	0.0007	0.0001
Tin (Sn)	mg/kg	ND	ND	5	700	100
Vanadium (V)	mg/kg	ND	ND	0.005	0.07	0.01
Zinc (Zn)	mg/kg	ND	ND	1	35	5
Comment		PASS		--	--	--

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Specimen Description:

## 1. Silvery metal (Bottle)

- Note:
1. mg/kg = milligram per kilogram of foodstuff in contact with
  2. dm<sup>2</sup>/kg = square decimeter per kilogram
  3. °C = degree Celsius
  4. According to Council of Europe Resolution CM/Res(2013)9, the result from 3<sup>rd</sup> migration shall comply with the Specific Release Limit (SRL) and the sum of 1<sup>st</sup> and 2<sup>nd</sup> migration shall not exceed seven times of SRL for repeated use articles
  5. ND = Not Detected (Lower than reporting limit)

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## Remark:

When statement of conformity is made, unless inherent in the requested specification, the decision rule would be based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability,  $w = U_{95}$ ) in ILAC-G8:09/2019 Clause 4.2.3.

“Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band.” or “Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.”

“Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band.” or “Fail - One or more measured values were observed out of tolerance at the points tested”. The specific false reject risk is up to 2.5%.

“Inconclusive – It is not possible to state the conformity. Either one or more measured values were observed in the portion of the expanded measurement uncertainty intervals at the points tested where the specific risk is up to 50%.”

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**Sample Photo:**

Pic.1



Pic.2



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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