



# Test Report

No.: 68.431.23.4282.02

Date: 2024-01-03

**Applicant:** Spector & Co  
**Address:** /  
**Product Name:** Double wall vacuum insulated stemless cup  
**Product Type / End use:** DRINKWARE  
**Item No.:** DW403  
**Style No.:** SMALL TALK METALLIC  
**Supplier:** USS049  
**Country of Origin:** CHINA  
**Country of Destination:** CANADA & U.S.A.  
**Receipt Date of Sample:** 2023-11-20, 2023-12-25  
**Date of Testing:** From 2023-11-20 to 2024-01-03  
**Sample Submitted:** The sample(s) was (were) submitted by applicant and identified.  
**Test Result:** Refer to the data listed in following pages

Test Item	Conclusion
1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials	Pass*
2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials	Pass*
3. US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials	Pass*
4. US California Proposition 65 - Total Lead Content Test - Substrate Materials	Pass*
5. Phthalates Content (11P)	Pass*
6. Tungsten Content Test	Report As Is
7. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Mercury	Pass
8. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Lead	Pass
9. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
10. Total Nickel Content Test	Report As Is
11. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
12. US California Proposition 65 - Phthalates Content (6P)	Pass*
13. Bisphenol A Content	Pass*
14. FDA CFR Title 21 Part 181.32 - Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 181.32	Pass
15. FDA CFR Title 21 Part 177.1210 - Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210	Pass
16. Total Chromium Content - Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel	Pass

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Lab 2 - Physical & Mechanical Test: Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China



- Remarks:
1. MDL = Method Detection Limit
  2. N.D. = Not Detected (<MDL)
  3. ≤ Less than
  4. 1 mg/kg = 1 ppm = 0.0001%
  5. NA=Not Applicable

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

Prepared by:

Authorized by:



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Senior Project Coordinator

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Senior Project Coordinator

Note:

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.  
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For further details, please see "Testing and certification regulation", chapter A-3.4  
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- (2) The results relate only to the items tested.
- (3) The test report shall not be reproduced except in full without the written approval of the laboratory
- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:  
- "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.  
- "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.
- (5) The test item and sample were specified by the client.
- (6) "\*" denotes the conclusion was drawn according to the client's specification.

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Description of Tested Subject:

Sample	Description	Photo
A	Whole product	
001	Silvery 304 stainless steel (Body inner)	
002	Silvery 201 stainless steel (Body outer)	
003	Transparent AS plastic (Lid base, sliding cover)	
004	Translucent white silicone (Stopper)	
005	Black silicone (Sealing ring)	
006	Black coating (Body of cup)	

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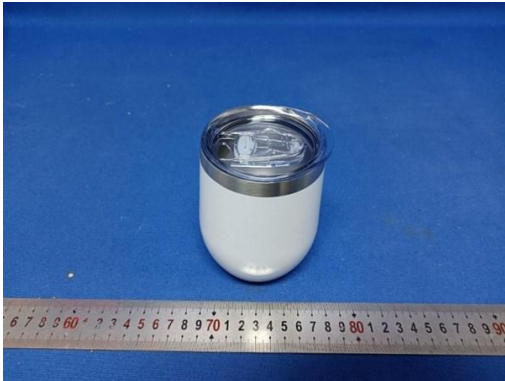

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Sample	Description	Photo
007	Shiny white coating (Body of cup)	
008	Black silicone with adhesive backing (Bottom)	

T. No	Sample	Description
T1	001	Silvery 304 stainless steel (Body inner)
T2	002	Silvery 201 stainless steel (Body outer)
T3	003	Transparent AS plastic (Lid base, sliding cover)
T4	004	Translucent white silicone (Stopper)
T5	005	Black silicone (Sealing ring)
T6	006	Black coating (Body of cup) Submitted on 2023-12-25
T7	007	Shiny white coating (Body of cup)
T8	008	Black silicone with adhesive backing (Bottom)

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**Test Result(s):**

**1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials**

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
006	mg/kg	10	75	N.D.	Pass
007	mg/kg	10	75	N.D.	Pass

**2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials**

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001	mg/kg	10	75	N.D.	Pass
002	mg/kg	10	75	N.D.	Pass
003+004+005	mg/kg	10	75	N.D.	Pass
008	mg/kg	10	75	N.D.	Pass

**3. US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials**

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
006	mg/kg	10	90	N.D.	Pass
007	mg/kg	10	90	N.D.	Pass

**4. US California Proposition 65 - Total Lead Content Test - Substrate Materials**

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001	mg/kg	10	100	N.D.	Pass
002	mg/kg	10	100	N.D.	Pass
003+004+005	mg/kg	10	100	N.D.	Pass
008	mg/kg	10	100	N.D.	Pass

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## 5. Phthalates Content (11P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					003+004+005	006+007
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)
					008
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.

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Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.
<b>Conclusion</b>					<b>Pass</b>

**6. Tungsten Content Test**

Test with reference to acid digestion and determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Test items	Unit	MDL	Maximum Permissible Limit	Result(s)
				001
Tungsten(W)	mg/kg	10.0	-	N.D.
<b>Conclusion</b>				<b>Report As Is</b>

**7. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Mercury**

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
006	mg/kg	10	10.0	N.D.	Pass
007	mg/kg	10	10.0	N.D.	Pass

**8. Canada Consumer Product Safety Act (S.C. 2010, c. 21), Surface Coating Materials Regulations SOR/2016-193 and SOR/2022-122 - Total Lead**

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
006	mg/kg	10	90	N.D.	Pass
007	mg/kg	10	90	N.D.	Pass

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**9. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test**

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10	90	N.D.	Pass
002	mg/kg	10	90	N.D.	Pass
003+004+005	mg/kg	10	90	N.D.	Pass
006	mg/kg	10	90	N.D.	Pass
007	mg/kg	10	90	N.D.	Pass
008	mg/kg	10	90	N.D.	Pass

**10. Total Nickel Content Test**

Test with reference to acid digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001	mg/kg	5	-	77558.022	Report As Is
002	mg/kg	5	-	12992.462	Report As Is

**11. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)**

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					003+004+005	006+007
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					008
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.
<b>Conclusion</b>					<b>Pass</b>

## 12. US California Proposition 65 - Phthalates Content (6P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					003+004+005	006+007
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)
					008
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.

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Di-isodecyl phthalate, (DIDP)	26761-40-0	%	0.005	0.1	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0	%	0.005	0.1	N.D.
<b>Conclusion</b>					<b>Pass</b>

**13. Bisphenol A Content**

Test method: With reference to in house method followed by LC-MSMS analysis.

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					003	004
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					005	006
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					007	008
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

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## 14. FDA CFR Title 21 Part 181.32

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 181.32

SIMULANT USED	TEST CONDITIONS	MDL [mg/in <sup>2</sup> ]	RESULT [mg/in <sup>2</sup> ]		CFR Specification [mg/in <sup>2</sup> ]
			003		
Distilled Water	Fill boiling water and then cool to 100 °F	<0.001	N.D.		0.003
3% Acetic acid	Fill boiling 3% acetic acid and then cool to 100 °F	<0.001	N.D.		0.003
8% ethanol	Fill boiling 8% ethanol and then cool to 100 °F	<0.001	N.D.		0.003
n-heptane	49°C, 15 mins	<0.001	N.D.		0.003
50% Ethanol	Fill boiling 50% ethanol and then cool to 100 °F	<0.001	N.D.		0.003
<b>Conclusion</b>			Pass		-

Note:

1. "mg/in<sup>2</sup>" denotes milligram per square inch
2. "<" denotes less than
3. "°F" denotes degree Fahrenheit
4. "°C" denotes degree Celsius
5. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 181.32

## 15. FDA CFR Title 21 Part 177.1210

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210

TEST ITEMS	TEST CONDITIONS	MDL [ppm]	RESULT [ppm]		CFR Specification [ppm]
			004	005	
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100 °F	10	N.D.	N.D.	50
Chloroform extractives in 8% Ethanol	Fill boiling 8% ethanol and then cool to 100 °F	10	N.D.	N.D.	50
Chloroform extractives in N-heptane	49°C, 15 mins	10	N.D.	18.0	50
<b>Conclusion</b>			Pass	Pass	-

Note:

1. "ppm" denotes part per million
2. "<" denotes less than
3. "°F" denotes degree Fahrenheit
4. "°C" denotes degree Celsius
5. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1210

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16. Total Chromium Content

Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel  
Test Method: Digested by acid and analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Analyte	Results [%]
	001
Total Chromium(Cr)	18.17
Limit	Not less than 16
Conclusion	Pass

Note:

- “%” denotes percentage by weight



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