

Test Report

No.: 68.431.22.4732.01

Date: 2022-12-05



Greater China

Applicant: Spector & Co
Address: /
Item No.: I128
Product Name: BALLPOINT PEN/STYLUS
Style No.: GLACIO
End Use: Writing Instrument
Supplier: USC043
Country of Origin: CHINA
Country of Destination: CANADA & U.S.A.
Receipt Date of Sample: 2022-11-10
Date of Testing: From 2022-11-14 to 2022-12-02
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. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test	Pass
8. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test	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*

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

Regd. Office: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
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Lab 1 - Chemical testing and part of electrical testing Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

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

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

Prepared by:

Authorized by:

Jojo Zhao



Eva Liang

Jojo Zhao
Project Coordinator

Eva Liang
Project Manager

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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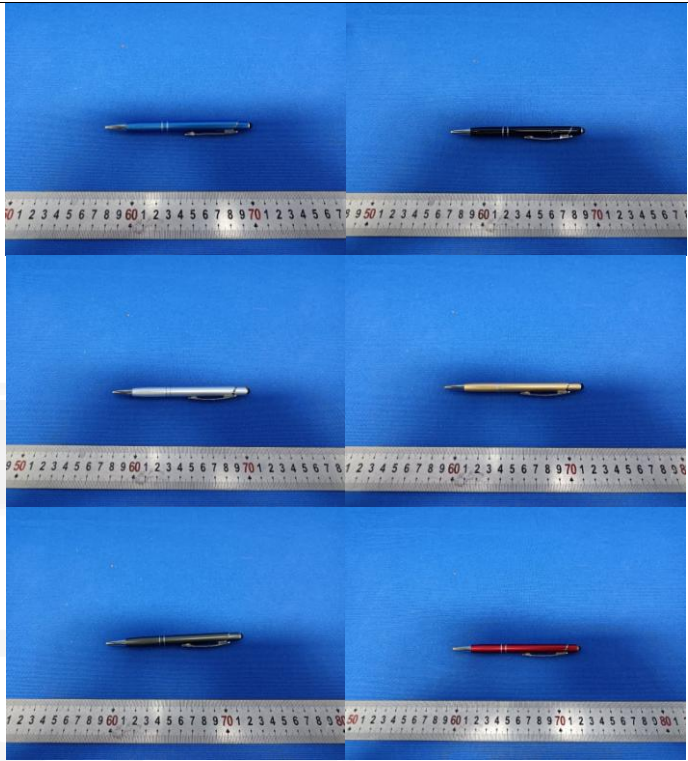


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Description of Tested Subject:

Sample	Description	Photo
A	Whole product	
001	Blue plated silvery metal (Barrel of pen)	
002	Blue plated silvery metal (Sleeve on top of pen)	
003	Matt silvery plated silvery metal (Barrel of pen)	

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Sample	Description	Photo
004	Matt silvery plated silvery metal (Sleeve on top of pen)	
005	Red plated silvery metal (Barrel of pen)	
006	Red plated silvery metal (Sleeve on top of pen)	
007	Grey plated silvery metal (Barrel of pen)	
008	Grey plated silvery metal (Sleeve on top of pen)	
009	Golden plated silvery metal (Barrel of pen)	

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Sample	Description	Photo
010	Golden plated silvery metal (Sleeve on top of pen)	
011	Black plated silvery metal (Barrel of pen)	
012	Black plated silvery metal (Sleeve on top of pen)	
013	Black soft plastic (Button on top)	
014	Silvery metal plating (Collar & top of pen)	
015	Silvery metal (Clip of pen)	
016	Silvery metal (Spring of core)	
017	Silvery metal (Tip of pen)	
018	Silvery metal (Ball of tip)	
019	Grey plastic (Core)	

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Sample	Description	Photo
020	Black ink (Pen ink)	

T. No	Sample	Description
T1	001	Blue plated silvery metal (Barrel of pen)
T2	002	Blue plated silvery metal (Sleeve on top of pen)
T3	003	Matt silvery plated silvery metal (Barrel of pen)
T4	004	Matt silvery plated silvery metal (Sleeve on top of pen)
T5	005	Red plated silvery metal (Barrel of pen)
T6	006	Red plated silvery metal (Sleeve on top of pen)
T7	007	Grey plated silvery metal (Barrel of pen)
T8	008	Grey plated silvery metal (Sleeve on top of pen)
T9	009	Golden plated silvery metal (Barrel of pen)
T10	010	Golden plated silvery metal (Sleeve on top of pen)
T11	011	Black plated silvery metal (Barrel of pen)
T12	012	Black plated silvery metal (Sleeve on top of pen)
T13	013	Black soft plastic (Button on top)
T14	014	Silvery metal plating (Collar & top of pen)
T15	015	Silvery metal (Clip of pen)
T16	016	Silvery metal (Spring of core)
T17	017	Silvery metal (Tip of pen)
T18	018	Silvery metal (Ball of tip)
T19	019	Grey plastic (Core)
T20	020	Black ink (Pen ink)

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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
020	mg/kg	10	75	N.D.	Pass

Remark:

- The test results of the sample 020 is transferred from sample 018 of report 68.431.22.4733.

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	mg/kg	10	75	N.D.	Pass
004	mg/kg	10	75	N.D.	Pass
005	mg/kg	10	75	N.D.	Pass
006	mg/kg	10	75	N.D.	Pass
007	mg/kg	10	75	N.D.	Pass
008	mg/kg	10	75	N.D.	Pass
009	mg/kg	10	75	N.D.	Pass
010	mg/kg	10	75	N.D.	Pass
011	mg/kg	10	75	N.D.	Pass
012	mg/kg	10	75	N.D.	Pass
013	mg/kg	10	75	N.D.	Pass
014	mg/kg	10	75	N.D.	Pass
015	mg/kg	10	75	N.D.	Pass
016	mg/kg	10	75	N.D.	Pass
017	mg/kg	10	75	N.D.	Pass
018	mg/kg	10	75	N.D.	Pass
019	mg/kg	10	75	N.D.	Pass

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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
020	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	mg/kg	10	100	N.D.	Pass
004	mg/kg	10	100	N.D.	Pass
005	mg/kg	10	100	N.D.	Pass
006	mg/kg	10	100	N.D.	Pass
007	mg/kg	10	100	N.D.	Pass
008	mg/kg	10	100	N.D.	Pass
009	mg/kg	10	100	N.D.	Pass
010	mg/kg	10	100	N.D.	Pass
011	mg/kg	10	100	N.D.	Pass
012	mg/kg	10	100	N.D.	Pass
013	mg/kg	10	100	N.D.	Pass
014	mg/kg	10	100	N.D.	Pass
015	mg/kg	10	100	N.D.	Pass
016	mg/kg	10	100	N.D.	Pass
017	mg/kg	10	100	36.6	Pass
018	mg/kg	10	100	N.D.	Pass
019	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)	
					013	019
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 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)
					020
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 , 68515-48-0	%	0.005	0.1	N.D.

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Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.
Conclusion					Pass

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	Limit	Result(s)	
				001	
Tungsten(W)	mg/kg	10.0	-	N.D.	
Conclusion					Report As Is

7. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test

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

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

8. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test

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

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

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	mg/kg	10	90	N.D.	Pass
004	mg/kg	10	90	N.D.	Pass
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
009	mg/kg	10	90	N.D.	Pass

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010	mg/kg	10	90	N.D.	Pass
011	mg/kg	10	90	N.D.	Pass
012	mg/kg	10	90	N.D.	Pass
013	mg/kg	10	90	N.D.	Pass
014	mg/kg	10	90	N.D.	Pass
015	mg/kg	10	90	N.D.	Pass
016	mg/kg	10	90	N.D.	Pass
017	mg/kg	10	90	36.6	Pass
018	mg/kg	10	90	N.D.	Pass
019	mg/kg	10	90	N.D.	Pass
020	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	Limit	Result(s)	Conclusion
001	mg/kg	5	-	185.786	Report As Is
002	mg/kg	5	-	176.969	Report As Is
003	mg/kg	5	-	128.625	Report As Is
004	mg/kg	5	-	128.432	Report As Is
005	mg/kg	5	-	238.462	Report As Is
006	mg/kg	5	-	325.174	Report As Is
007	mg/kg	5	-	274.765	Report As Is
008	mg/kg	5	-	310.328	Report As Is
009	mg/kg	5	-	70.122	Report As Is
010	mg/kg	5	-	165.547	Report As Is
011	mg/kg	5	-	257.346	Report As Is
012	mg/kg	5	-	210.611	Report As Is
014	mg/kg	5	-	55186.916	Report As Is
015	mg/kg	5	-	23668.503	Report As Is
016	mg/kg	5	-	158.333	Report As Is
017	mg/kg	5	-	29.765	Report As Is
018	mg/kg	5	-	57806.122	Report As Is

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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)	
					013	019
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 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					020
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 , 68515-48-0	%	0.005	0.1	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.
Conclusion					Pass

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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)	
					013	019
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 , 68515-49-1	%	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 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					020	
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.	
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	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 , 68515-48-0	%	0.005	0.1	N.D.	
Conclusion					Pass	

-End of Test Report-

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