Date: 2023-06-02



Greater China

Applicant: Spector & Co **Sample Description: BALLPOINT PEN** Writing instrument

Product Type / End use:

Item No.: G3106 Style No.: **WILLOW** Supplier: **USS061 Country of Origin:** China

Country of Destination:

CANADA & U.S.A.

Receipt Date of Sample:

2023-05-23

Date of Testing:

From 2023-05-23 to 2023-06-02

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*
 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*

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

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Lab 2 - Physical & Mechanical Test:

No.: 68.431.23.2369.01

Date: 2023-06-02



Greater China

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

Prepared by:

Authorized by:

ama



Eva Liang Project Manager

Gianna Gao **Project Manager**

Note:

- The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied. (1) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see "Testing and certification regulation", chapter A-3.4 For full version, please visit: EN: https://www.tuvsud.cn/zh-cn/resource/terms-and-conditions---en; SCN: https://www.tuvsud.cn/zh-cn/terms-and-conditions---en; conditions; TCN: https://www.tuvsud.com/zh-tw/terms-and-conditions
- (2) The results relate only to the Items tested.
- 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	23456789701234567898
		2345678970123456789801
		3 3 60 1 2 3 4 5 6 7 8 9 70 1 2 3 4 5 6 7 8
001	Black coating (On pen)	2345678970123456789801

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Sample	Description	Photo
002	White coating (On pen)	23456789701234567898
003	Grey coating (On pen)	
004	Bright silver metal plated plastic (Head/ part & end)	
005	Silver color metal (Body)	
006	Silver color metal (Clip)	* 8 3 60 1 2 3 4 5 6 7 8 9 70 1 2 3 4 5 6 7 8
007	Black plastic (End of core)	
008	Grey plastic (Core)	
009	Black ink (In core)	
010	Silver color metal (Nib)	in the second se
011	Silver color metal (Ball of nib)	

T. No	Sample	Description
T1	001	Black coating (On pen)
T2	002	White coating (On pen)
Т3	003	Grey coating (On pen)
T4	004	Bright silver metal plated plastic (Head/ part & end)
T5	005	Silver color metal (Body)
T6	006	Silver color metal (Clip)
T7	007	Black plastic (End of core)

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T. No	Sample	Description
T8	008	Grey plastic (Core)
Т9	009	Black ink (In core)
T10	010	Silver color metal (Nib)
T11	011	Silver color metal (Ball of nib)



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No.: 68.431.23.2369.01 **Test Report**

Date: 2023-06-02



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Test Result(s):

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

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
001+002+003	mg/kg	10	75	N.D.	Pass
009	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
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+008	mg/kg	10	75	N.D.	Pass
010	mg/kg	10	75	N.D.	Pass
011	mg/kg	10	75	N.D.	Pass

US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials 3. 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
001+002+003	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass

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

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
004	mg/kg	10	100	N.D.	Pass
005	mg/kg	10	100	19.2	Pass
006	mg/kg	10	100	N.D.	Pass
007+008	mg/kg	10	100	N.D.	Pass
010	mg/kg	10	100	47.8	Pass
011	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).

Doromotor	CACNO	l lmi4	MDL	Client's	Result(s)	
Parameter	CAS No.	Unit		Limit	001+002+003	007+008
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

				Client's	Result(s)
Parameter	CAS No.	Unit	MDL	Limit	009
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.
	Pass				

6. Tungsten Content Test

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

			Maximum	Result(s)
Test items	Unit	MDL	Permissible Limit	005
Tungsten(W)	mg/kg	10.0	-	N.D.
Cond	clusion			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

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

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+002+003	mg/kg	10	10.0	N.D.	Pass
009	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
001+002+003	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass

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+002+003	mg/kg	10	90	N.D.	Pass
004	mg/kg	10	90	N.D.	Pass
005	mg/kg	10	90	19.2	Pass
006	mg/kg	10	90	N.D.	Pass

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007+008	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass
010	mg/kg	10	90	47.8	Pass
011	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
004	mg/kg	5	-	2971.883	Report As Is
005	mg/kg	5	-	272.953	Report As Is
006	mg/kg	5	-	2267.585	Report As Is
010	mg/kg	5		20.640	Report As Is
011	mg/kg	5	-	34603.414	Report As Is

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

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	Resu	lt(s)
					001+002+003	007+008
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	1			Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s) 009
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.

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	Pass				
Di-n-pentyl phthalates (DnPP)	N.D.				
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.

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	Resu	lt(s)
	CAS NO.	Offic		Limit	001+002+003	007+008
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		1		Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s) 009
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-isononyl phthalate,	28553-12-0 ,	%	0.005	0.1	N.D.

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(DINP)	68515-48-0		
	Conclusion		Pass

-End of Test Report-



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