

Test Report

No.: 68.431.23.1477.01

Date: 2023-03-16



Greater China

Applicant: Spector & Co
Product Name: RENZO BALLPOINT PEN
Product Type / End use: writing instrument
Item No.: G3373
Style No.: RENZO
Supplier: USC043
Country of Origin: CHINA
Country of Destination: CANADA & U.S.A.
Receipt Date of Sample: 2023-03-07
Date of Testing: From 2023-03-10 to 2023-03-16
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*

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: Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

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Testing Center

Prepared by:

Authorized by:



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Senior Project Coordinator

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Note:

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.
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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	Black coating on pen	
002	Black plastic cover of pen	
003	Black plastic refill	
004	Silvery metal nib of refill	
005	Black ink of refill	
006	Golden metal (Head, ring and screw of pen)	
007	Golden metal (Barrel of pen)	
008	Golden metal (Clip of pen)	

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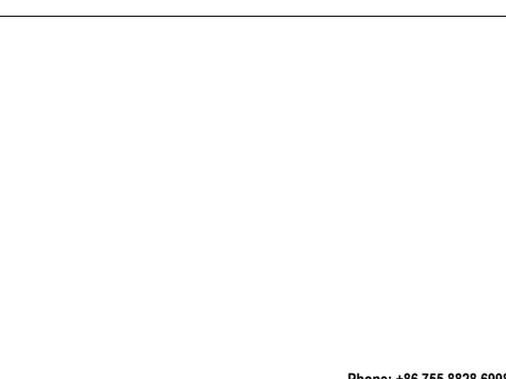
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Sample	Description	Photo
009	Golden metal (Screw cap of pen)	
010	Silvery-grey metal (Head, ring and screw of pen)	
011	Silvery-grey metal (Barrel of pen)	
012	Silvery-grey metal (Clip of pen)	
013	Silvery metal (Head, ring and screw of pen)	
014	Silvery metal (Barrel of pen)	
015	Silvery metal (Clip of pen)	
016	Grey plastic refill	

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Sample	Description	Photo
017	Silvery metal spring	

T. No	Sample	Description
T1	001	Black coating on pen
T2	002	Black plastic cover of pen
T3	003	Black plastic refill
T4	004	Silvery metal nib of refill
T5	005	Black ink of refill
T6	006	Golden metal (Head, ring and screw of pen)
T7	007	Golden metal (Barrel of pen)
T8	008	Golden metal (Clip of pen)
T9	009	Golden metal (Screw cap of pen)
T10	010	Silvery-grey metal (Head, ring and screw of pen)
T11	011	Silvery-grey metal (Barrel of pen)
T12	012	Silvery-grey metal (Clip of pen)
T13	013	Silvery metal (Head, ring and screw of pen)
T14	014	Silvery metal (Barrel of pen)
T15	015	Silvery metal (Clip of pen)
T16	016	Grey plastic refill
T17	017	Silvery metal spring

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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
001	mg/kg	10	75	N.D.	Pass
005	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
002+003+016	mg/kg	10	75	N.D.	Pass
004	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
017	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
001	mg/kg	10	90	N.D.	Pass
005	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
002+003+016	mg/kg	10	100	N.D.	Pass
004	mg/kg	10	100	34.9	Pass

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006	mg/kg	10	100	20.2	Pass
007	mg/kg	10	100	21.9	Pass
008	mg/kg	10	100	24.1	Pass
009	mg/kg	10	100	37.8	Pass
010	mg/kg	10	100	32.0	Pass
011	mg/kg	10	100	N.D.	Pass
012	mg/kg	10	100	N.D.	Pass
013	mg/kg	10	100	28.6	Pass
014	mg/kg	10	100	N.D.	Pass
015	mg/kg	10	100	32.1	Pass
017	mg/kg	10	100	36.3	Pass

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)	
					001	002+003+016
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.	0.018
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)
					005
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.

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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.
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	Maximum Permissible Limit	Result(s)
				007
Tungsten(W)	mg/kg	10.0	-	N.D.
Conclusion				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	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	mg/kg	10	90	N.D.	Pass
005	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+003+016	mg/kg	10	90	N.D.	Pass
004	mg/kg	10	90	34.9	Pass
005	mg/kg	10	90	N.D.	Pass
006	mg/kg	10	90	20.2	Pass
007	mg/kg	10	90	21.9	Pass
008	mg/kg	10	90	24.1	Pass
009	mg/kg	10	90	37.8	Pass
010	mg/kg	10	90	32.0	Pass
011	mg/kg	10	90	N.D.	Pass
012	mg/kg	10	90	N.D.	Pass
013	mg/kg	10	90	28.6	Pass
014	mg/kg	10	90	N.D.	Pass
015	mg/kg	10	90	32.1	Pass
017	mg/kg	10	90	36.3	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	-	91.622	Report As Is
006	mg/kg	5	-	4221.270	Report As Is
007	mg/kg	5	-	6822.992	Report As Is
008	mg/kg	5	-	2487.769	Report As Is
009	mg/kg	5	-	3687.470	Report As Is
010	mg/kg	5	-	928.894	Report As Is
011	mg/kg	5	-	6746.032	Report As Is
012	mg/kg	5	-	5128.550	Report As Is
013	mg/kg	5	-	3749.386	Report As Is
014	mg/kg	5	-	33.504	Report As Is
015	mg/kg	5	-	314.053	Report As Is
017	mg/kg	5	-	75.000	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)	
					001	002+003+016
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.	0.018
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)
					005
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)	
					001	002+003+016
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	0.018
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)
					005
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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