

Dated: 2019-07-08



Applicant : Spector & Co

Address :

Sample Description : Push action ballpoint Pen

Item No. : G4039

Style No. : EMMERSON

Supplier : USA032

Country of Origin : China

**Exported to** : Canada & U.S.A.

Test Sample Receipt Date, Location : 2019-04-17, 2019-07-02, Shenzhen

Test Period, Location : From 2019-04-17 to 2019-07-05, Shenzhen

Test Result(s) : Refer to Section 3

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### Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
1.	US California Proposition 65 - Total Cadmium Content Test - Substrate	Pass*
'-	Materials	F d 5 5
2.	US California Proposition 65 - Total Cadmium Content Test - Paint and	Pass*
۷.	Similar Surface-Coating Materials	F a55
3.	US California Proposition 65 - Total Lead Content Test - Substrate	Pass*
J.	Materials	1 055
4.	US California Proposition 65 - Total Lead Content Test - Paint and Similar	Pass*
٦.	Surface-Coating Materials	1 055
5.	Canadian Consumer Products Containing Lead Regulations SOR/2018-	Pass
J.	83 - Total Lead Content Test	1 455
6.	Canadian Surface Coating Materials Regulations SOR/2016-193 - Total	Pass
0.	Lead Content Test	1 433
7.	Phthalates Content	Pass*
8.	US California Proposition 65 - Phthalates Content	Pass*
9.	U.S. CFR Title 16 Part 1307 - Phthalates Content	Pass
10.	Tungsten Content Test	Report as is

#### Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) "\*" denotes the conclusion was drawn according to the client's specification.
- (4) The test item and samples were specified by the client

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Prepared by:

Reviewed by:

<Cara Xiang>

<Senior Project Coordinator>

<Ken Chen>

<Project Manager>

Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC

Laboratory:

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

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

Facilitate hardina@tuv.oud

Fax: +86 755 8828 5299
E-mail: toys\_hardline@tuv-sud.hk
Web : http://www.tuv-sud.cn

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park,

Nantou Checkpoint Road 2, 518052, P. R. China

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17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

No extract, abridgment or abstraction from a test report may be published or used to advertise a product without the written consent of the Director of TUV SUD Certification and Testing (China) Co., Ltd. Shenzhen Branch. The results contained herein apply only to the particular sample tested and to the specific test carried out and not to samples of the current production line.

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.

The conclusion of test result was drawn according to corresponding regulation or standard method and / or client's requirement



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## 1. Description of the Test Sample:

Sample Description	Push action ballpoint Pen

# 2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Silvery metal(End of pen)	
T2	002	Black coating on pen body	
Т3	003	Silvery coating on pen body	
T4	004	Deep blue coating on pen body	
T5	005	Deep red coating on pen body	
T6	006	Silvery metal (Inside pen body)	
T7	007	Silvery metal plating(Top of pen)	7 7 7
Т8	800	Black ink	35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 4
Т9	009	Silvery metal(Tip of pen)	
T10	010	Silvery metal(Ball of tip)	

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### 3. Test Result

### 3.1 US California Proposition 65 - Total Cadmium Content Test - Substrate Materials

Test method: Acid digestion/Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

		Results [mg/kg]			
Test item	Sample 001	Sample 006	Sample 007	Specification [mg/kg]	
Cadmium	N.D.	N.D.	N.D.	<75	
Conclusion	Pass	Pass	Pass	-	

		Results [mg/kg]		
Test item	Sample 008	Sample 009	Sample 010	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

#### Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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## 3.2 US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	Results [	Results [mg/kg]		
Test Item	Sample 002+003+004	Sample 005	Specification [mg/kg]	
Cadmium	N.D.	N.D.	<75	
Conclusion	Pass	Pass	-	

### Note:

- "mg/kg" denotes milligram per kilogram

- "<" denotes less than

- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg



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### 3.3 US California Proposition 65 - Total Lead Content Test - Substrate Materials

Test method: Acid digestion or Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

		Client's		
Test Item	Sample 001	Sample 006	Sample 007	Specification [mg/kg]
Lead	N.D.	N.D.	N.D.	<100
Conclusion	Pass	Pass	Pass	-

	//	Results [mg/kg]			
Test Item	Sample 008	Sample 009	Sample 010	Specification [mg/kg]	
Lead	N.D.	N.D.	25.8	<100	
Conclusion	Pass	Pass	Pass	-	

#### Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	Results	Client's	
Test Item	Sample 002+003+004	Sample 005	Specification [mg/kg]
Lead	N.D.	N.D.	<90
Conclusion	Pass	Pass	-

### Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg



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

Phone: +86 755 8828 6998 Fax: +86 755 8828 5299 E-mail: toys\_hardline@tuv-sud.hk Web: http://www.tuv-sud.cn

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12&13, Zhiheng Wisdomland Business Park, Page 8 of 14

Nantou Checkpoint Road 2, 518052, P. R. China

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### 3.5 Total Lead

Consumer Products Containing Lead Regulations SOR/2018-83 Acid digestion / Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

[Reporting Limit: 10.0mg/kg]

	Result [mg/kg]			
Analyte	Sample 001	Sample 002+003+004	Sample 005	
Lead	N.D.	N.D.	N.D.	
Limit <90				
Conclusion	Pass	Pass	Pass	

		Result [mg/kg]	
Analyte	Sample 006	Sample 007	Sample 008
Lead	N.D.	N.D.	N.D.
Limit		<90	
Conclusion	Pass	Pass	Pass

	Result [	mg/kg]
Analyte	Sample 009	Sample 010
Lead	N.D.	25.8
Limit	<9	0
Conclusion	Pass	Pass

Note 1. "mg/kg" denotes milligram per kilogram

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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### 3.6 Total Lead

Surface Coating Materials Regulations SOR/2016-193 Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	Result [mg/kg]			
Analyte	Sample	Sample		
	002+003+004	005		
Lead	N.D.	N.D.		
Limit	<90			
Conclusion	Pass	Pass		

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg



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#### 3.7 **Phthalates Content**

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

	CAS No.	Results [%]			Client's
Test Items		Sample 002+003 +004	Sample 005	Sample 008	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

Phone: +86 755 8828 6998 Fax: +86 755 8828 5299 E-mail: toys\_hardline@tuv-sud.hk Web: http://www.tuv-sud.cn

Regd. Office:

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### 3.8 US California Proposition 65 - Phthalates Content

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

	CAS No.	Results [%]			Client's
Test Items		Sample 002+003 +004	Sample 005	Sample 008	Specification [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Conclusion	GIII	Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: toys\_hardline@tuv-sud.hk
Web: http://www.tuv-sud.cn

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### 3.9 U.S. CFR Title 16 Part 1307 - Phthalates Content

CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

	CAS No.	Results [%]			
Phthalates		Sample 002+003 +004	Sample 005	Sample 008	Limit [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: toys\_hardline@tuv-sud.hk
Web: http://www.tuv-sud.cn

<sup>2. &</sup>quot;<" denotes less than

<sup>3. &</sup>quot;N.D." denotes Not Detected with Detection Limit 0.005%

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## 3.10 Tungsten Content Test

Test method: EPA 3050B:1996, analyzed by Inductively Coupled Plasma Optical Emission

Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	Results [mg/kg]	Client's
Test Item	Sample 006	Specification [mg/kg]
Tungsten	N.D.	-
Conclusion	Report as is	-

### Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

-- END OF TEST REPORT--

