

**Test Report No.: 68.431.21.01948.01**

**Dated: 2021-04-22**



**Applicant** : Spector & Co

**Address** : /

**Sample Description** : HARD COVER NOTEBOOK W/PEN LOOP

**Product Type / End Use** : SPIRAL

**Item No.** : ST4146

**Supplier** : USG025

**Country of Origin** : CHINA

**Country of Destination** : CANADA & U.S.A.

**Test Sample Receipt Date, Location** : 2021-03-23, 2021-04-13, Shenzhen

**Test Period, Location** : From 2021-03-29 to 2021-04-21, Shenzhen

**Test Result(s)** : Refer to Section 3

**Laboratory:**  
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

Phone : +86 755 8828 6998  
Fax: +86 755 8828 5299  
E-mail: toys\_hardline@tuvsud.com  
Web : <http://www.tuvsud.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



**Purpose Of Examination / Conclusion:**

No.	Test Item(s)	Conclusion
1.	US California Proposition 65 - Total Cadmium Content Test - Substrate Materials	Pass*
2.	US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials	Pass*
3.	US California Proposition 65 - Total Lead Content Test - Substrate Materials	Pass*
4.	US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials	Pass*
5.	Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
6.	Canadian Surface Coating Materials Regulations SOR/2016-193 – Total Lead Content Test	Pass
7.	Phthalates Content (11P)	Pass*
8.	US California Proposition 65 - Phthalates Content (6P)	Pass*
9.	U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
10.	Tungsten Content Test	Report As Is
11.	Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test	Pass
12.	Nickel 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.
- (5) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "pass", "Fail" and "Inconclusive" is 95%.

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

Prepared by:

Reviewed by:

**Laboratory:**  
 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

Phone : +86 755 8828 6998  
 Fax: +86 755 8828 5299  
 E-mail: toys\_hardline@tuvsud.com  
 Web : <http://www.tuvsud.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

Test Report No.: 68.431.21.01948.01

Dated: 2021-04-22



*Cara*



*Ken*

<Cara Xiang>  
<Senior Project Coordinator>

<Ken Chen>  
<Project Manager>

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.




**Laboratory:**  
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



Phone : +86 755 8828 6998  
Fax: +86 755 8828 5299  
E-mail: toys\_hardline@tuvsud.com  
Web : <http://www.tuvsud.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




1. Description of the Test Sample:

Sample Description	HARD COVER NOTEBOOK W/PEN LOOP
	

2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Red synthetic leather (Cover)	
T2	002	Orange synthetic leather (Cover)	
T3	003	Light blue synthetic leather (Cover)	
T4	004	Black synthetic leather (Cover)	
T5	005	Light green synthetic leather (Cover)	
T6	006	Grey printed white paper (Page)	

T. No.	Sample No.	Colour and Description	Photograph
T7	007	White soft plastic (Elastic band) (Red, Orange style)	
T8	008	Grey soft plastic (Elastic band) (Light green, Light blue style)	
T9	009	Black soft plastic (Elastic band) (Black style)	

T. No.	Sample No.	Colour and Description	Photograph
T10	010	Red fabric (Elastic band)	
T11	011	Orange fabric (Elastic band)	
T12	012	Light blue fabric (Elastic band)	
T13	013	Black fabric (Elastic band)	
T14	014	Green fabric (Elastic band)	
T15	015	Transparent plastic (Pocket)	
T16	016	Red fabric (Interlayer)	
T17	017	Orange fabric (Interlayer)	

**Laboratory:**

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

Phone : +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: toys\_hardline@tuv sud.com

Web : <http://www.tuvsud.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

T. No.	Sample No.	Colour and Description	Photograph
T18	018	Light blue fabric (Interlayer)	
T19	019	Black fabric (Interlayer)	
T20	020	Green fabric (Interlayer)	



**Laboratory:**

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

Phone : +86 755 8828 6998



Fax: +86 755 8828 5299

E-mail: toys\_hardline@tuv sud.com

Web : <http://www.tuvsud.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

T. No.	Sample No.	Colour and Description	Photograph
T21	021	Grey paper board with adhesive backing (Cover)	
T22	022	Transparent coating (Hinge)	
T23	023	Silvery metal (Hinge)	

Remark:

The materials of sample 001, 002, 003, 004, 005, 006, 007, 008, 009 claimed by the client are as same as sample 012, 026, 032, 035, 038, 004, 008, 015, 025 of technical report 68.431.21.01947.01 issued on 2021-04-08, which means both samples have the same composition, supplier and color. The test data is quoted from the latter one.

Laboratory:

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

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



**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]

Test item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 001	Sample 002	Sample 003	
Cadmium	N.D.	N.D.	N.D.	<75
<b>Conclusion</b>	Pass	Pass	Pass	-

Test item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 004	Sample 005	Sample 006	
Cadmium	N.D.	N.D.	N.D.	<75
<b>Conclusion</b>	Pass	Pass	Pass	-

Test item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 007	Sample 008	Sample 009	
Cadmium	N.D.	N.D.	N.D.	<75
<b>Conclusion</b>	Pass	Pass	Pass	-

Note:

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

**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]

Test item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 010+011+012	Sample 013+014	Sample 015	
Cadmium	N.D.	N.D.	N.D.	<75
<b>Conclusion</b>	Pass	Pass	Pass	-

Test item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 016+017+018	Sample 019+020	Sample 021	
Cadmium	N.D.	N.D.	N.D.	<75
<b>Conclusion</b>	Pass	Pass	Pass	-

Test item	Results [mg/kg]	Client's Specification [mg/kg]
	Sample 023	
Cadmium	N.D.	<75
<b>Conclusion</b>	Pass	-

Note:

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



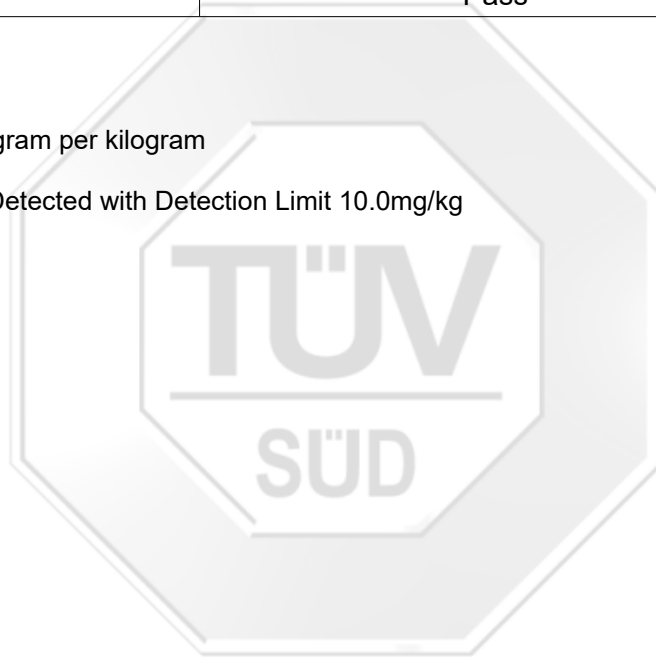
**3.2 US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials**

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

Test Item	Results [mg/kg]	Client's Specification [mg/kg]
	Sample 022	
Cadmium	N.D.	<75
<b>Conclusion</b>	Pass	-

Note:

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





**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]

Test Item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 001	Sample 002	Sample 003	
Lead	N.D.	N.D.	22.3	<100
<b>Conclusion</b>	Pass	Pass	Pass	-

Test Item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 004	Sample 005	Sample 006	
Lead	22.7	N.D.	N.D.	<100
<b>Conclusion</b>	Pass	Pass	Pass	-

Test Item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 007	Sample 008	Sample 009	
Lead	N.D.	N.D.	N.D.	<100
<b>Conclusion</b>	Pass	Pass	Pass	-

Note:

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

**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]

Test Item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 010+011+012	Sample 013+014	Sample 015	
Lead	N.D.	N.D.	N.D.	<100
<b>Conclusion</b>	Pass	Pass	Pass	-

Test Item	Results [mg/kg]			Client's Specification [mg/kg]
	Sample 016+017+018	Sample 019+020	Sample 021	
Lead	N.D.	N.D.	N.D.	<100
<b>Conclusion</b>	Pass	Pass	Pass	-

Test Item	Results [mg/kg]	Client's Specification [mg/kg]
	Sample 023	
Lead	64.1	<100
<b>Conclusion</b>	Pass	-

Note:

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



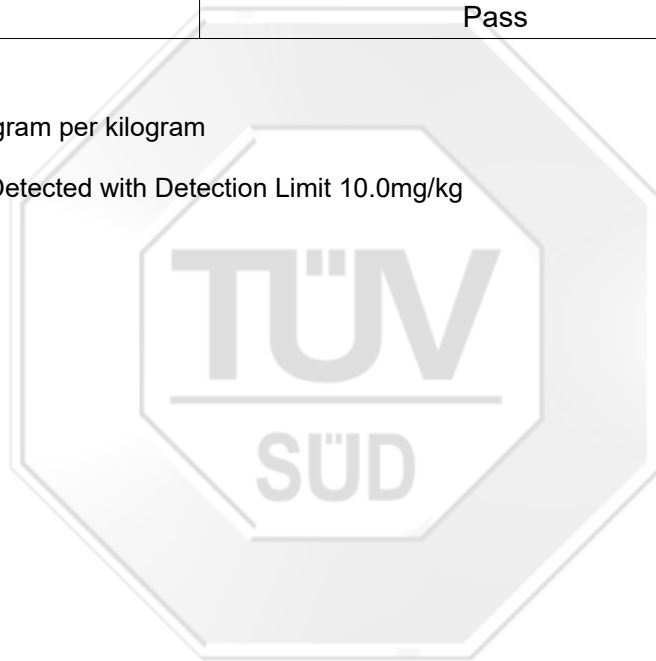
**3.4 US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials**

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

Test Item	Results [mg/kg]	Client's Specification [mg/kg]
	Sample 022	
Lead	N.D.	<90
<b>Conclusion</b>	Pass	-

Note:

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





**3.5 Total Lead Content Test**

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]

Analyte	Result [mg/kg]		
	Sample 001	Sample 002	Sample 003
Lead	N.D.	N.D.	22.3
Limit	<90		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 004	Sample 005	Sample 006
Lead	22.7	N.D.	N.D.
Limit	<90		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 007	Sample 008	Sample 009
Lead	N.D.	N.D.	N.D.
Limit	<90		
Conclusion	Pass	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

### 3.5 Total Lead Content Test

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]

Analyte	Result [mg/kg]		
	Sample 010+011+012	Sample 013+014	Sample 015
Lead	N.D.	N.D.	N.D.
Limit	<90		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]		
	Sample 016+017+018	Sample 019+020	Sample 021
Lead	N.D.	N.D.	N.D.
Limit	<90		
Conclusion	Pass	Pass	Pass

Analyte	Result [mg/kg]	
	Sample 022	Sample 023
Lead	N.D.	64.1
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

**Laboratory:**

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

Phone : +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: toys\_hardline@tuvsud.com

Web : <http://www.tuvsud.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





**3.6 Total Lead Content Test**

Surface Coating Materials Regulations SOR/2016-193

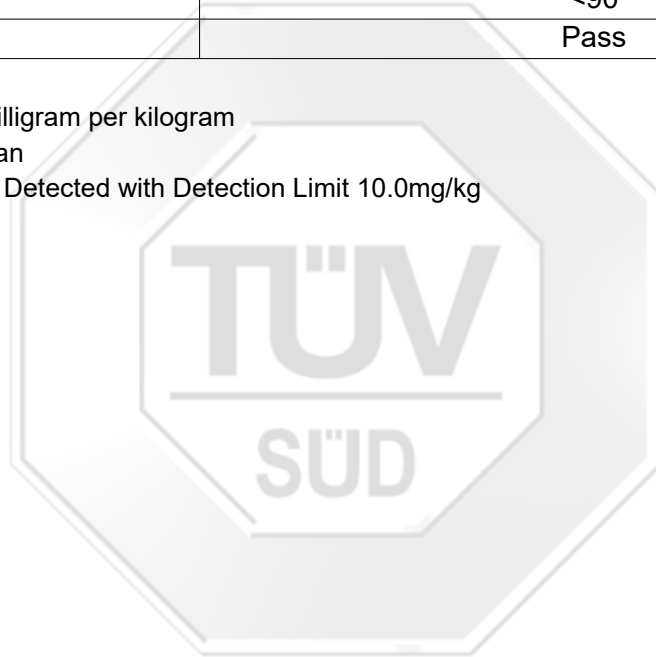
Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Analyte	Result [mg/kg]
	Sample
Lead	022 N.D.
Limit	<90
Conclusion	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



**Laboratory:**

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

Phone : +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: toys\_hardline@tuv sud.com

Web : <http://www.tuvsud.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

### 3.7 Phthalates Content (11P)

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

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 001	Sample 002	Sample 003	
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-pentylphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%

### 3.7 Phthalates Content (11P)

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

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 004	Sample 005	Sample 006	
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-pentylphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

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

**Laboratory:**

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

Phone : +86 755 8828 6998  
Fax: +86 755 8828 5299  
E-mail: toys\_hardline@tuvsud.com  
Web : <http://www.tuvsud.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

### 3.7 Phthalates Content (11P)

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

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 007	Sample 008	Sample 009	
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-pentylphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

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

**Laboratory:**

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

Phone : +86 755 8828 6998  
Fax: +86 755 8828 5299  
E-mail: toys\_hardline@tuvsud.com  
Web : http://www.tuvsud.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

### 3.7 Phthalates Content (11P)

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

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 010+011 +012	Sample 013+014	Sample 015	
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-pentylphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%

### 3.7 Phthalates Content (11P)

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

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 016+017 +018	Sample 019+020	Sample 021	
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-pentylphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

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

**Laboratory:**

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

Phone : +86 755 8828 6998  
Fax: +86 755 8828 5299  
E-mail: toys\_hardline@tuvsud.com  
Web : <http://www.tuvsud.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

### 3.7 Phthalates Content (11P)

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

Test Items	CAS No.	Results [%]	Client's Specification [%]
		Sample 022	
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	<0.1
Di-n-pentylphthalat (DNPP)	131-18-0	N.D.	<0.1
<b>Conclusion</b>		Pass	-

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

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

**Laboratory:**

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

Phone : +86 755 8828 6998  
Fax: +86 755 8828 5299  
E-mail: toys\_hardline@tuvsud.com  
Web : <http://www.tuvsud.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

**3.8 US California Proposition 65 - Phthalates Content (6P)**

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

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 001	Sample 002	Sample 003	
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
<b>Conclusion</b>		Pass	Pass	Pass	-

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 004	Sample 005	Sample 006	
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
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%



**3.8 US California Proposition 65 - Phthalates Content (6P)**

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

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 007	Sample 008	Sample 009	
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
<b>Conclusion</b>		Pass	Pass	Pass	-

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 010+011+012	Sample 013+014	Sample 015	
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
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%

**3.8 US California Proposition 65 - Phthalates Content (6P)**

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

Test Items	CAS No.	Results [%]			Client's Specification [%]
		Sample 016+017 +018	Sample 019+020	Sample 021	
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
<b>Conclusion</b>		Pass	Pass	Pass	-

Test Items	CAS No.	Results [%]	Client's Specification [%]
		Sample 022	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
<b>Conclusion</b>		Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%

**3.9 U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)**  
 CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates  
 [Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 001	Sample 002	Sample 003	
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
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%

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

CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 004	Sample 005	Sample 006	
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
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

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

**Laboratory:**

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

Phone : +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: toys\_hardline@tuv sud.com

Web : http://www.tuvsud.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



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

CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 007	Sample 008	Sample 009	
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
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

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

**Laboratory:**

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

Phone : +86 755 8828 6998  
Fax: +86 755 8828 5299  
E-mail: toys\_hardline@tuvsud.com  
Web : http://www.tuvsud.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

**3.9 U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)**  
 CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates  
 [Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 010+011 +012	Sample 013+014	Sample 015	
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
<b>Conclusion</b>		Pass	Pass	Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%

**3.9 U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)**  
 CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates  
 [Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]			Limit [%]
		Sample 016+017+018	Sample 019+020	Sample 021	
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
<b>Conclusion</b>		Pass	Pass	Pass	-

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

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

**Laboratory:**

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

Phone : +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: toys\_hardline@tuv sud.com

Web : http://www.tuvsud.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

**3.9 U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)**  
 CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates  
 [Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%]	Limit [%]
		Sample 022	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	<0.1
<b>Conclusion</b>		Pass	-

- Note 1. “%” denotes percentage by weight  
 2. “<” denotes less than  
 3. “N.D.” denotes Not Detected with Detection Limit 0.005%





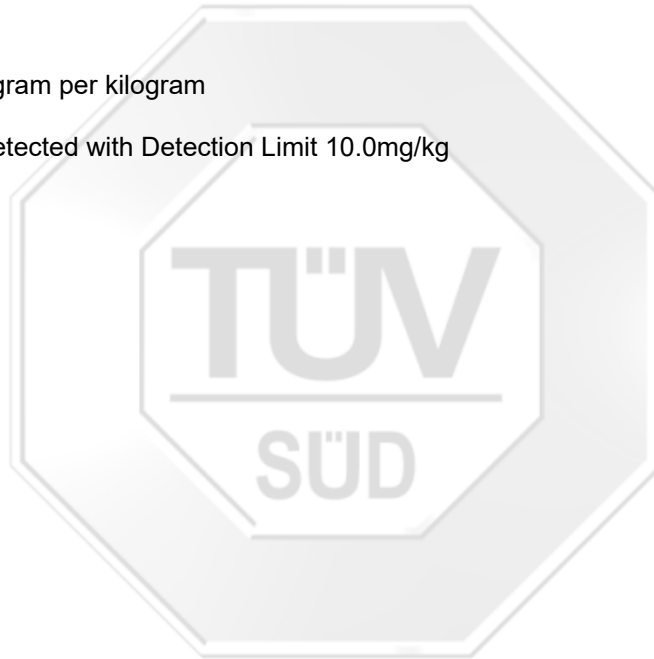
**3.10 Tungsten Content Test**

Test method: EPA 3050B:1996, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]	Client's Specification [mg/kg]
	Sample 023	
Tungsten	N.D.	-
<b>Conclusion</b>	Report As Is	-

Note:

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



**Laboratory:**

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

Phone : +86 755 8828 6998  
 Fax: +86 755 8828 5299  
 E-mail: toys\_hardline@tuvsud.com  
 Web : <http://www.tuvsud.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



**3.11 Total Mercury Content Test**

Surface Coating Materials Regulations SOR/2016-193

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

Test Item	Results [mg/kg]	Limit [mg/kg]
	Sample 022	
Mercury	N.D.	<10
<b>Conclusion</b>	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

**3.12 Nickel Content Test**

Test method: Acid digestion and analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 5.0mg/kg]

Test Item	Results [mg/kg]	Client's Specification [mg/kg]
	Sample 023	
Nickel	207.11	-
<b>Conclusion</b>	Report As Is	-

Note:

- "mg/kg" denotes milligram per kilogram

- "<" denotes less than

- "N.D." denotes Not Detected with Detection Limit 5.0mg/kg

-- END OF TEST REPORT--

**Laboratory:**

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

Phone : +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: toys\_hardline@tuvsud.com

Web : http://www.tuvsud.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