



Greater China

# Test Report

**No.: 68.431.22.4441.01**

**Date: 2022-10-31**

**Applicant:** Spector & CO  
**Address:** /  
**Product Name:** 20 OZ/600ML DOUBLE WALL STAINLESS STEEL BOTTLE  
**End Use:** DRINKWARE  
**Item No.:** DW305  
**Style No.:** TRENDSETTER METALLIC  
**Supplier:** USS149  
**Country of Origin:** CHINA  
**Country of Destination:** CANADA & U.S.A.  
**Receipt Date of Sample:** 2022-10-18  
**Date of Testing:** From 2022-10-18 to 2022-10-28  
**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*        |
| 13. FDA CFR Title 21 Part 177.1210   | Pass         |
| 14. FDA CFR Title 21 Part 177.1520   | Pass         |
| 15. Total Chromium   | 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  
 Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

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

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

# Test Report

No.: 68.431.22.4441.01

Date: 2022-10-31



Greater China

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

Prepared by:

Authorized by:

Jojo Zhao



Steven Shu

Jojo Zhao  
Project Coordinator

Shu, Steven  
Senior Project Coordinator

## Note:

- (1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.  
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> ; TCN: <https://www.tuvsud.com/zh-tw/terms-and-conditions>
- (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.

## Regd. Office:

TüV Süd Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: [info@tuvsud.com](mailto:info@tuvsud.com)

Web : <http://www.tuvsud.cn>

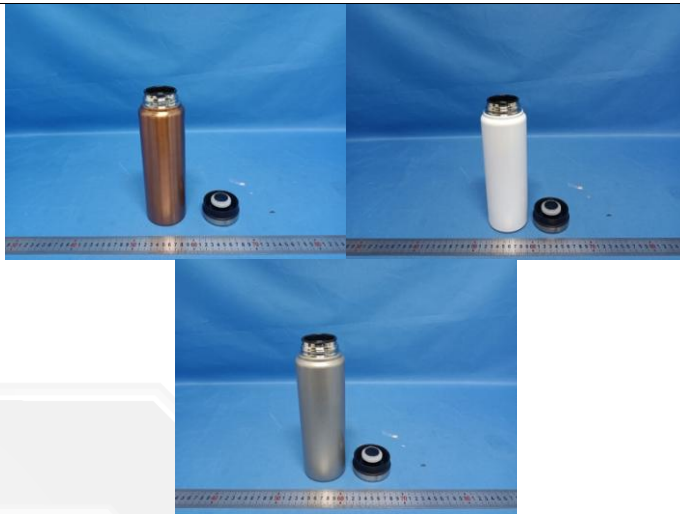



Lab 1 - Chemical testing and part of  
electrical testing

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

Description of Tested Subject:

| Sample | Description   | Photo  |
|--------|---|--|
| A      | Whole product   |    |
| 001    | Silvery 201 stainless steel metal (Lid & outer wall)  |   |
| 002    | Black PP-CO plastic (Lid & ring)                      |  |
| 003    | Translucent white silicone (Sealing ring)             |  |
| 004    | Silvery 304 stainless steel metal (Inner wall)        |  |
| 005    | White coating (Outer wall)                            |  |
| 006    | Black silicone w/ adhesive backing (Bottom pad)       |  |
| 007    | Black printed white plastic sticker (QR code sticker) |  |
| 008    | Rose golden coating (Outer wall)                      |  |

Regd. Office:

TüV Süd Certification and Testing (China) Co., Ltd. Shenzhen Branch  
 Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
 Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com


Web : http://www.tuvsud.cn

Lab 1 - Chemical testing and part of electrical testing

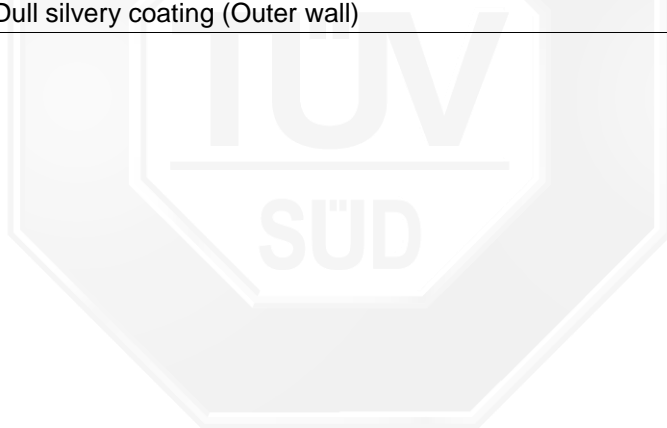
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & Mechanical Test:

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

|     |                                   |  |
|-----|-----------------------------------|--|
| 009 | Dull silvery coating (Outer wall) |  |
|-----|-----------------------------------|--|

| T. No | Sample | Description   |
|-------|--------|---|
| T1    | 001    | Silvery 201 stainless steel metal (Lid & outer wall)  |
| T2    | 002    | Black PP-CO plastic (Lid & ring)                      |
| T3    | 003    | Translucent white silicone (Sealing ring)             |
| T4    | 004    | Silvery 304 stainless steel metal (Inner wall)        |
| T5    | 005    | White coating (Outer wall)                            |
| T6    | 006    | Black silicone w/ adhesive backing (Bottom pad)       |
| T7    | 007    | Black printed white plastic sticker (QR code sticker) |
| T8    | 008    | Rose golden coating (Outer wall)                      |
| T9    | 009    | Dull silvery coating (Outer wall)                     |



Regd. Office:

TüV Süd Certification and Testing (China) Co., Ltd. Shenzhen Branch  
 Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
 Shenzhen, Guangdong, China

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

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



**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 |
|--------|-------|-----|----------------|-----------|------------|
| 005    | mg/kg | 10  | 75             | N.D.      | Pass       |
| 008    | 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 |
|--------|-------|-----|----------------|-----------|------------|
| 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       |
| 006    | mg/kg | 10  | 75             | N.D.      | Pass       |
| 007    | 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 |
|--------|-------|-----|----------------|-----------|------------|
| 005    | mg/kg | 10  | 90             | N.D.      | Pass       |
| 008    | mg/kg | 10  | 90             | N.D.      | Pass       |
| 009    | 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       |
| 006    | mg/kg | 10  | 100            | N.D.      | Pass       |
| 007    | mg/kg | 10  | 100            | N.D.      | Pass       |

Regd. Office:

TüV Süd Certification and Testing (China) Co., Ltd. Shenzhen Branch  
 Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
 Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuvsud.cn

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

## 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)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 002         | 003         |
| 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 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>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.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s) |       |
|--------------------------------------|----------------------------|------|-------|----------------|-----------|-------|
|                                      |                            |      |       |                | 005       | 006   |
| 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.      | 0.006 |
| 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 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.      | N.D.  |

Regd. Office:

TüV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuvsud.cn

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

# Test Report

No.: 68.431.22.4441.01

Date: 2022-10-31



Greater China

|                               |                            |   |       |     |             |             |
|-------------------------------|----------------------------|---|-------|-----|-------------|-------------|
| Di-isodecyl phthalate, (DIDP) | 26761-40-0 ,<br>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.        |
| <b>Conclusion</b>             |                            |   |       |     | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 008         | 009         |
| 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 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| Di-isodecyl phthalate, (DIDP)        | 26761-40-0 ,<br>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.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> | <b>Pass</b> |

## 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.                |  |
| <b>Conclusion</b> |       |      |       | <b>Report As Is</b> |  |

## 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 |
|--------|------|-----|-------|-----------|------------|
|--------|------|-----|-------|-----------|------------|

Regd. Office:

TüV Süd Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

Web : http://www.tuvsud.cn

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



|            |       |    |      |      |             |
|------------|-------|----|------|------|-------------|
| <b>005</b> | mg/kg | 10 | 10.0 | N.D. | <b>Pass</b> |
| <b>008</b> | mg/kg | 10 | 10.0 | N.D. | <b>Pass</b> |
| <b>009</b> | mg/kg | 10 | 10.0 | N.D. | <b>Pass</b> |

**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  |
|------------|-------|-----|-------|-----------|-------------|
| <b>005</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |
| <b>008</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |
| <b>009</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |

**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  |
|------------|-------|-----|-------|-----------|-------------|
| <b>001</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |
| <b>002</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |
| <b>003</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |
| <b>004</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |
| <b>005</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |
| <b>006</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |
| <b>007</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |
| <b>008</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |
| <b>009</b> | mg/kg | 10  | 90    | N.D.      | <b>Pass</b> |

**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          |
|------------|-------|-----|-------|-----------|---------------------|
| <b>001</b> | mg/kg | 5   | -     | 11306.957 | <b>Report As Is</b> |
| <b>004</b> | mg/kg | 5   | -     | 83552.253 | <b>Report As Is</b> |

**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) |      |
|-------------------------|---------|------|-------|-------|-----------|------|
|                         |         |      |       |       | 002       | 003  |
| Benzyl butyl phthalate, | 85-68-7 | %    | 0.005 | 0.1   | N.D.      | N.D. |

Regd. Office:

TüV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
 Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
 Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuvsud.cn

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



# Test Report

No.: 68.431.22.4441.01

Date: 2022-10-31



Greater China

|                                      |                            |   |       |     |             |             |
|--------------------------------------|----------------------------|---|-------|-----|-------------|-------------|
| (BBP)                                |                            |   |       |     |             |             |
| 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 ,<br>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.        |
| <b>Conclusion</b>                    |                            |   |       |     | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.                    | Unit | MDL   | Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|-------|-------------|-------------|
|                                      |                            |      |       |       | 005         | 006         |
| 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.        | 0.006       |
| 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 ,<br>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.        |
| <b>Conclusion</b>                    |                            |      |       |       | <b>Pass</b> | <b>Pass</b> |

| Parameter                     | CAS No.  | Unit | MDL   | Limit | Result(s) |      |
|-------------------------------|----------|------|-------|-------|-----------|------|
|                               |          |      |       |       | 008       | 009  |
| 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, | 117-81-7 | %    | 0.005 | 0.1   | N.D.      | N.D. |

Regd. Office:

TüV Süd Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuvsud.cn

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

|                               |                            |   |       |     |             |             |
|-------------------------------|----------------------------|---|-------|-----|-------------|-------------|
| (DEHP)                        |                            |   |       |     |             |             |
| Di-isononyl phthalate, (DINP) | 28553-12-0 ,<br>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.        |
| <b>Conclusion</b>             |                            |   |       |     | <b>Pass</b> | <b>Pass</b> |

## 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)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 002         | 003         |
| 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 ,<br>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 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> | <b>Pass</b> |

| Parameter                            | CAS No.                    | Unit | MDL   | Client's Limit | Result(s)   |             |
|--------------------------------------|----------------------------|------|-------|----------------|-------------|-------------|
|                                      |                            |      |       |                | 005         | 006         |
| Dibutyl phthalate, (DBP)             | 84-74-2                    | %    | 0.005 | 0.1            | N.D.        | 0.006       |
| 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 ,<br>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 ,<br>68515-48-0 | %    | 0.005 | 0.1            | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |      |       |                | <b>Pass</b> | <b>Pass</b> |

| Parameter | CAS No. | Unit | MDL | Client's Limit | Result(s) |     |
|-----------|---------|------|-----|----------------|-----------|-----|
|           |         |      |     |                | 008       | 009 |

Regd. Office:

TüV Süd Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuvsud.cn

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

# Test Report

No.: 68.431.22.4441.01

Date: 2022-10-31



Greater China

|                                      |                            |   |       |     |             |             |
|--------------------------------------|----------------------------|---|-------|-----|-------------|-------------|
| 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 ,<br>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 ,<br>68515-48-0 | % | 0.005 | 0.1 | N.D.        | N.D.        |
| <b>Conclusion</b>                    |                            |   |       |     | <b>Pass</b> | <b>Pass</b> |

### 13. FDA CFR Title 21 Part 177.1210

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210

| TEST ITEMS                                | TEST CONDITIONS     | RESULT [ppm] | CFR Specification [ppm] |
|---|---------------------|--------------|-------------------------|
|   |                     | SAMPLE 003   |                         |
| Chloroform extractives in Distilled water | 100 °C for 0.5 Hour | <10          | 50                      |
| Chloroform extractives in 8% Ethanol      | 100 °C for 0.5 Hour | <10          | 50                      |
| Chloroform extractives in N-heptane       | 49 °C for 0.5 Hour  | 10.0         | 250                     |
| <b>Conclusion</b>                         |                     | Pass         | -                       |

Note:

1. "ppm" denotes part per million
2. "<" denotes less than
3. "°C" denotes degree Celsius
4. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1210

Regd. Office:

TüV Süd Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuvsud.cn

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



14. FDA CFR Title 21 Part 177.1520

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1520

| TEST ITEMS   | RESULTS    | CFR Specification<br>[PP/PE Copolymer] |
|--|------------|--|
|  | SAMPLE 002 |  |
| Density [g/cc]   | 0.903      | 0.85 - 1.00                            |
| Maximum extractive in n-hexane 50°C for 2 hours [%]                | <1.00      | 5.5                                    |
| Maximum extractive in xylene after reflux for 2 hours at 25 °C [%] | 1.74       | 30                                     |
| <b>Conclusion</b>  | Pass       | -                                      |

Note:

1. “%” denotes percentage by weight
2. “g/cc” denotes gram per cubic centimeter
3. “<” denotes less than
4. “°C” denotes degree Celsius
5. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1520

15. Total Chromium Content

Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel  
 Test Method: Digested by acid and analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

| Analyte            | Results [%]      |
|--------------------|------------------|
|                    | Sample 004       |
| Total Chromium(Cr) | 17.70            |
| <b>Limit</b>       | Not less than 16 |
| <b>Conclusion</b>  | Pass             |

Note:

- “%” denotes percentage by weight

-End of Test Report-

Regd. Office:

TüV Süd Certification and Testing (China) Co., Ltd. Shenzhen Branch  
 Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,  
 Shenzhen, Guangdong, China

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

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