

# Test Report

No.: 68.431.22.4283.01

Date: 2022-11-22



Greater China

**Applicant:** Spector & CO  
**Address:** /  
**Product Name:** Wired earbuds  
**End Use:** Technology  
**Item No.:** T327  
**Style No.:** NOMAD  
**Supplier:** USY009  
**Country of Origin:** CHINA  
**Country of Destination:** CANADA & U.S.A.  
**Receipt Date of Sample:** 2022-09-29, 2022-11-09  
**Date of Testing:** From 2022-09-29 to 2022-11-18  
**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. Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)	Pass*
14. Fluorine(F) Content	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  
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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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TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch  
Testing Center

Prepared by:

Authorized by:

*Jojo Zhao*



*Eva Liang*

**Jojo Zhao**  
Project Coordinator

**Eva Liang**  
Project Manager

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- "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 (Zipper head & zipper puller)	
002	Silvery metal (Zipper head)	
003	Silvery metal (Zipper puller)	
004	Grey fabric w/ adhesive backing (Box)	
005	Black fabric (Zipper band)	
006	Black plastic (Zipper teeth)	
007	Black fabric (Connection)	
008	Black plush fabric (Lining)	
009	Black net fabric (Interlayer)	

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010	Black fabric (Elastic band)	
011	Golden metal (Tip of Plug)	
012	Golden metal (Second part of Plug)	
013	Golden metal (Third part of Plug)	
014	Golden metal (Bottom of Plug)	
015	Black plastic (Plug)	
016	Grey soft plastic (Plug & connector)	
017	Grey soft plastic (Earphone cable)	
018	Silvery metal (Button)	
019	Grey plastic (Button box)	

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020	Grey soft plastic (Ear Plug)	
021	Black plastic (Earphone)	
022	Silvery plated off white plastic (Earphone)	
023	Silvery coating (Letter on earphone)	
024	Black plastic net w/ adhesive backing (Earphone)	
025	Multi-color coating (Earphone)	
026	Green printed brown PCB (Earphone)	

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027	Black plastic w/ multi-color printing (Earphone)	
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T. No	Sample	Description
T1	001	Black coating (Zipper head & zipper puller)
T2	002	Silvery metal (Zipper head)
T3	003	Silvery metal (Zipper puller)
T4	004	Grey fabric w/ adhesive backing (Box)
T5	005	Black fabric (Zipper band)
T6	006	Black plastic (Zipper teeth)
T7	007	Black fabric (Connection)
T8	008	Black plush fabric (Lining)
T9	009	Black net fabric (Interlayer)
T10	010	Black fabric (Elastic band)
T11	011	Golden metal (Tip of Plug)
T12	012	Golden metal (Second part of Plug)
T13	013	Golden metal (Third part of Plug)
T14	014	Golden metal (Bottom of Plug)
T15	015	Black plastic (Plug)
T16	016	Grey soft plastic (Plug & connector)
T17	017	Grey soft plastic (Earphone cable)
T18	018	Silvery metal (Button)
T19	019	Grey plastic (Button box)
T20	020	Grey soft plastic (Ear Plug)
T21	021	Black plastic (Earphone)
T22	022	Silvery plated off white plastic (Earphone)
T23	023	Silvery coating (Letter on earphone)
T24	024	Black plastic net w/ adhesive backing (Earphone)
T25	025	Multi-color coating (Earphone)
T26	026	Green printed brown PCB (Earphone)
T27	027	Black plastic w/ multi-color printing (Earphone)

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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
023	mg/kg	10	75	N.D.	Pass
025	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	mg/kg	10	75	N.D.	Pass
003	mg/kg	10	75	N.D.	Pass
004	mg/kg	10	75	N.D.	Pass
005+007	mg/kg	10	75	N.D.	Pass
006+015	mg/kg	10	75	N.D.	Pass
008+009+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
016+017+020	mg/kg	10	75	N.D.	Pass
018	mg/kg	10	75	N.D.	Pass
019	mg/kg	10	75	N.D.	Pass
021+022+024	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
023	mg/kg	10	90	N.D.	Pass
025	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).

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Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
002	mg/kg	10	100	26.8	Pass
003	mg/kg	10	100	35.0	Pass
004	mg/kg	10	100	N.D.	Pass
005+007	mg/kg	10	100	N.D.	Pass
006+015	mg/kg	10	100	N.D.	Pass
008+009+010	mg/kg	10	100	N.D.	Pass
011	mg/kg	10	100	47.9	Pass
012	mg/kg	10	100	45.5	Pass
013	mg/kg	10	100	78.5	Pass
014	mg/kg	10	100	64.4	Pass
016+017+020	mg/kg	10	100	N.D.	Pass
018	mg/kg	10	100	N.D.	Pass
019	mg/kg	10	100	N.D.	Pass
021+022+024	mg/kg	10	100	N.D.	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+023	004
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's	Result(s)
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				Limit	005+007	006+015
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					008+009+010	016+017+020
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.	0.024
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.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

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Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					019	021+022+024
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)
					027
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.
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<b>Conclusion</b>	<b>Pass</b>
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**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)
				003
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
001	mg/kg	10	10.0	N.D.	Pass
023	mg/kg	10	10.0	N.D.	Pass
025	mg/kg	10	10.0	N.D.	Pass

**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
001	mg/kg	10	90	N.D.	Pass
023	mg/kg	10	90	N.D.	Pass
025	mg/kg	10	90	N.D.	Pass

**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	mg/kg	10	90	26.8	Pass
003	mg/kg	10	90	35.0	Pass
004	mg/kg	10	90	N.D.	Pass
005+007	mg/kg	10	90	N.D.	Pass
006+015	mg/kg	10	90	N.D.	Pass
008+009+010	mg/kg	10	90	N.D.	Pass
011	mg/kg	10	90	47.9	Pass
012	mg/kg	10	90	45.5	Pass

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013	mg/kg	10	90	78.5	Pass
014	mg/kg	10	90	64.4	Pass
016+017+020	mg/kg	10	90	N.D.	Pass
018	mg/kg	10	90	N.D.	Pass
019	mg/kg	10	90	N.D.	Pass
021+022+024	mg/kg	10	90	N.D.	Pass
023	mg/kg	10	90	N.D.	Pass
025	mg/kg	10	90	N.D.	Pass

## 10. Total Nickel Content Test

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

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002	mg/kg	5	-	11.004	Report As Is
003	mg/kg	5	-	N.D.	Report As Is
011	mg/kg	5	-	1660.050	Report As Is
012	mg/kg	5	-	7444.668	Report As Is
013	mg/kg	5	-	7376.712	Report As Is
014	mg/kg	5	-	7841.141	Report As Is
018	mg/kg	5	-	935231.855	Report As Is

## 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+023	004
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					005+007	006+015
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					008+009+010	016+017+020
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.	0.024
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.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					019	021+022+024
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	84-75-3	%	0.005	0.1	N.D.	N.D.

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(DnHP)						
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.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					027	
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.	
<b>Conclusion</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)	
					001+023	004
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.

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Di-isononyl phthalate, (DINP)	28553-12-0 , 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+007	006+015
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					008+009+010	016+017+020
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	0.024
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.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					019	021+022+024
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.

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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.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					017	020
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

### 13. Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS)

In-house method, solvent extraction and determination by LC-MSMS, GC-MS and GC- MSMS.

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					017	020
Perfluorooctanesulphonic acid 1H,1H,2H,2H (H4PFOS; 6:2)	27619-97-2	mg/kg	0.025	0.025	N.D.	N.D.
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.025	0.025	N.D.	N.D.
Ammonium Pentadecafluorooctanoate (APFO)*	3825-26-1	mg/kg	0.025	0.025	N.D.	N.D.
Sodium perfluorooctanoate(Na-PFO)*	335-95-5	mg/kg	0.025	0.025	N.D.	N.D.
Potassium perfluorooctanoate(K-PFO)*	2395-00-8	mg/kg	0.025	0.025	N.D.	N.D.
Silver perfluorooctanoate(Ag-PFO)*	335-93-3	mg/kg	0.025	0.025	N.D.	N.D.
Perfluorooctanoyl fluoride(F-PFO)*	335-66-0	mg/kg	0.025	0.025	N.D.	N.D.
Perfluorooctansulfonate (PFOS)	1763-23-1	mg/kg	0.025	0.025	N.D.	N.D.
Perfluorooctane sulphonamide(PFOSA)	754-91-6	mg/kg	0.025	0.025	N.D.	N.D.
perfluoro-1-octanesulfonyl fluoride (POSF/PFOSF)*	307-35-7	mg/kg	0.025	0.025	N.D.	N.D.
Potassium perfluorooctanesulphonate(PFOS-K)*	2795-39-3	mg/kg	0.025	0.025	N.D.	N.D.
Ammonium perfluorooctanesulphonate(PFOS-NH4)*	29081-56-9	mg/kg	0.025	0.025	N.D.	N.D.
Didecyl(dimethyl)azanium;1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctane-1-sulfonate(PFOS-DDA)*	251099-16-8	mg/kg	0.025	0.025	N.D.	N.D.
Perfluoro-1-octanesulfonic acid, diethanolamine salt(PFOS-NH(OH)2)*	70225-14-8	mg/kg	0.025	0.025	N.D.	N.D.
Lithium perfluorooctylsulfonate(PFOS-Li)*	29457-72-5	mg/kg	0.025	0.025	N.D.	N.D.

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Heptadecafluorooctanesulfonic acid tetraethylammonium salt(PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )*	56773-42-3	mg/kg	0.025	0.025	N.D.	N.D.
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.5	0.5	N.D.	N.D.
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.5	0.5	N.D.	N.D.
Sodium Perfluoro-1-octanesulfonate(PFOS-Na)*	4021-47-0	mg/kg	0.025	0.025	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					026	
Perfluorooctanesulphonic acid 1H,1H,2H,2H (H <sub>4</sub> PFOS; 6:2)	27619-97-2	mg/kg	0.025	0.025	N.D.	
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.025	0.025	N.D.	
Ammonium Pentadecafluorooctanoate (APFO)*	3825-26-1	mg/kg	0.025	0.025	N.D.	
Sodium perfluorooctanoate(Na-PFO)*	335-95-5	mg/kg	0.025	0.025	N.D.	
Potassium perfluorooctanoate(K-PFO)*	2395-00-8	mg/kg	0.025	0.025	N.D.	
Silver perfluorooctanoate(Ag-PFO)*	335-93-3	mg/kg	0.025	0.025	N.D.	
Perfluorooctanoyl fluoride(F-PFO)*	335-66-0	mg/kg	0.025	0.025	N.D.	
Perfluorooctansulfonate (PFOS)	1763-23-1	mg/kg	0.025	0.025	N.D.	
Perfluorooctane sulphonamide(PFOSA)	754-91-6	mg/kg	0.025	0.025	N.D.	
perfluoro-1-octanesulfonyl fluoride (POSF/PFOSF)*	307-35-7	mg/kg	0.025	0.025	N.D.	
Potassium perfluorooctanesulphonate(PFOS-K)*	2795-39-3	mg/kg	0.025	0.025	N.D.	
Ammonium perfluorooctanesulfonate(PFOS-NH <sub>4</sub> )*	29081-56-9	mg/kg	0.025	0.025	N.D.	
Didecyl(dimethyl)azanium;1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate(PFOS-DDA)*	251099-16-8	mg/kg	0.025	0.025	N.D.	
Perfluoro-1-octanesulfonic acid, diethanolamine salt(PFOS-NH(OH) <sub>2</sub> )*	70225-14-8	mg/kg	0.025	0.025	N.D.	
Lithium perfluorooctylsulfonate(PFOS-Li)*	29457-72-5	mg/kg	0.025	0.025	N.D.	
Heptadecafluorooctanesulfonic acid tetraethylammonium salt(PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )*	56773-42-3	mg/kg	0.025	0.025	N.D.	
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.5	0.5	N.D.	
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.5	0.5	N.D.	
Sodium Perfluoro-1-octanesulfonate(PFOS-Na)*	4021-47-0	mg/kg	0.025	0.025	N.D.	
<b>Conclusion</b>					<b>Pass</b>	

Remark: \* The test result is based on the calculation of selected marker(s) and to the worst-case scenario.

## 14. Fluorine(F) Content

Test with reference to BS EN 14582: 2016 and analyzed by Ion Chromatograph (IC).

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					016	027
Fluorine(F)	-	mg/kg	50	50	N.D.	N.D.
<b>Conclusion</b>					<b>Pass</b>	<b>Pass</b>

-End of Test Report-

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