

**Test Report**

NUMBER : TSNH00393930



To be continued

Authorized By :  
For Intertek Testing Services  
(Tianjin) Ltd. Qingdao Branch



David Zhang  
Senior Manager



## Test Report

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### CONCLUSION

Lead	M
Phthalates (DEHP, DBP, BBP, DINP, DIBP, DPENP, DHEXP, DCHP, DIDP)	M
Cadmium	M
Chromium (VI)	-
Mercury	M
Arsenic	M
Nickel	M

### NOTES:

M = Meet Buyer's Requirement

# = No Comment

N/A = Not Applicable

C = Conform Label

R = See Remark

F = Below Buyer's Requirement

- = Did Not Perform

\* = No Submitted Information

NC = Not Conform Label

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### TESTS CONDUCTED (AS REQUESTED BY THE APPLICANT)

#### 1. Total Lead (Pb) Content

With reference to US EPA method 3050B/3051, acid digestion method was used and total lead content was determined by flame atomic absorption spectrometry.

<u>Tested Components</u>	<u>Result In ppm</u>	<u>Limit In ppm</u>
(1)	26	500
(2+3+4)	<10	133
(5+6)	<10	200

ppm=parts per million=mg/kg

< = less than

Tested Component(s): See component list in the last section of this report.

#### 2. Total Cadmium (Cd) Content

As per client's request, acid digestion method was used and total cadmium content was determined by flame atomic absorption spectrometry.

<u>Tested Components</u>	<u>Result In ppm</u>	<u>Limit In ppm</u>
(1)	<5	75
(2+3+4)	8	20
(5+6)	<5	30

ppm=parts per million=mg/kg

< = less than

Tested Component: See component list in the last section of this report.

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**3. Phthalate Content**

With reference to CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

<u>Test item</u>	<u>Result (%)</u> (5+6)	<u>Limit (%) (Max.)</u>
Dibutyl phthalate (DBP)	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	0.1
Benzyl butyl phthalate (BBP)	ND	0.1
Diisononyl phthalate (DINP)	ND	0.1
Diisobutyl phthalate (DIBP)	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	0.1
Di-isodecyl Phthalate(DIDP)	ND	0.1

The above limit was quoted according to 16 CFR part 1307 approved by U.S. Consumer Product Safety Commission (CPSC) for prohibition of children's toys and child care articles containing specified phthalates.

Remark: ND = Not Detected  
Detection Limit = 0.01%

Tested Component(s): See component list in the last section of this report.

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**4-1. Release Of Nickel For Coated Item**

As per EN12472 : 2020 and EN1811 :2011 + A1:2015.

Tested Components	Trial	Sample Area (cm <sup>2</sup> )	Volume Of Test Solution (mL)	Result Δ (μg/cm <sup>2</sup> /week)
(2)	1	1.7	1.7	<0.1
	2	1.7	1.7	<0.1
	3	1.7	1.7	<0.1
(3)	1	1.4	1.4	<0.1
	2	1.4	1.4	<0.1
	3	1.4	1.4	<0.1
(4)	1	0.81	0.8	<0.1
	2	0.81	0.8	<0.1
	3	0.81	0.8	<0.1

Requirement : less than 0.2 μg/cm<sup>2</sup>/week

Remark : The limit 0.2μg/cm<sup>2</sup>/week is applied to post assembly which is the part of the product designed for insertion into the wound caused by piercing, plus any faces that hold the piece in and against the wound

< = less than

Δ = According to EN 1811:2011+A1:2015, compliance decision was made based on the following rules.

Result	Interpretation
< 0.35	Compliance (Pass)
≥ 0.35	Non-compliance (Fail)

Tested Component(s) : See component(s) list in the last section of this report.

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**4-2. Release of Nickel for Body Piercing Post Assemblies**

As per EN1811 : 2011 + A1:2015

<u>Tested Components</u>	<u>Trial</u>	<u>Sample Area (cm<sup>2</sup>)</u>	<u>Volume Of Test Solution (mL)</u>	<u>Result Δ (μg/cm<sup>2</sup>/week)</u>
(1)	1	0.78	0.8	<0.1
	2	0.78	0.8	<0.1
	3	0.78	0.8	<0.1

Requirement : Less than 0.2 μg/cm<sup>2</sup>/week

Remark : <= less than  
 Δ = According to EN 1811:2011+A1:2015, compliance decision was made based on the following rules.

<u>Result</u>	<u>Interpretation</u>
< 0.35	Compliance (Pass)
≥ 0.35	Non-compliance (Fail)

Tested Component(s) : See component(s) list in the last section of this report.

**5. Total Heavy Metal Content**

With reference to ASTM E1613/E1645, acid digestion method was used and total heavy metal contents were determined by inductively coupled argon plasma spectrometry.

<u>Tested Component(s)</u>	<u>Mercury</u>	<u>Result In ppm</u>	<u>Arsenic</u>	<u>Limit In ppm</u>
(5+6)	<10		<10	400

ppm=parts per million=mg/kg  
 < = less than

Tested Component(s): See component(s) list in the last section of this report.

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