

Applicant: DONGGUAN JIAN PLASTIC & METAL PRODUCTS LTD.  
NO.3-1, SOUTH GAOBU BLVD  
GAOBU, DONGGUAN, CHINA  
ZIP CODE: 523278  
Attn: LILY/NANCY

Date: Feb 08, 2018

Sample Description:

One (1) piece of submitted sample said to be Silver tin alloy material.

Standard : --  
Buyer's Name : WORLD WIDE  
Colour : --  
Vendor : WORLD WIDE  
Manufacturer : CHINA  
Supplier : CHINA  
Style No./Name : --  
P.O. No. : --  
Ref. : PEWTER (100% TIN)  
AGE RANGE: 3+  
Country Of Origin : MADE IN CHINA  
Goods Exported To : WORLD WIDE  
Date Received/Date Test Started : Jan 15, 2018  
Date Final Information Confirmed: Jan 17, 2018

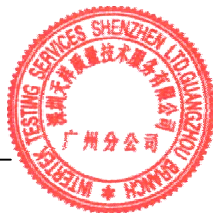
Conclusion:

<u>Index</u>	<u>Test Item</u>	<u>Result</u>
1.	19 Toxic Element Migration Test	Meet Applicant's Requirement
2.	Toxic Elements Analysis	Meet Applicant's Requirement
3.	Soluble Lead Content Test	Pass

Should you have any query on this report, you may contact at [gzfootwear@intertek.com](mailto:gzfootwear@intertek.com)

Authorized By:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch

Huang Ning, Andy  
Assistant General Manager



1 19 Toxic Element Migration Test

With Reference To EN71-3:2013+A1:2014 And Followed By Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES) .

When Confirmation Tests Of Organic Tin Were Performed, Determined By Gas Chromatographic - Mass Spectrometry (GC/MS) Respectively.

Category (III): Scraped-Off Toy Material

Element	Result (Mg/Kg)	Limit (Mg/Kg)
Aluminium (Al)	< 300	70000
Antimony (Sb)	< 10	560
Arsenic (As)	< 10	47
Barium (Ba)	< 10	18750
Boron (B)	< 50	15000
Cadmium (Cd)	< 5	17
Chromium (III) (Cr III) <sup>++</sup>	< 10	460
Chromium (VI) (Cr VI) <sup>++</sup>	< 0.1	0.2
Cobalt (Co)	< 10	130
Copper (Cu)	< 10	7700
Lead (Pb)	< 10	160
Manganese (Mn)	< 10	15000
Mercury (Hg)	< 10	94
Nickel (Ni)	< 10	930
Selenium (Se)	< 10	460
Strontium (Sr)	< 100	56000
Tin (Sn)	45	180000
Organic Tin <sup>++</sup>	< 3.0 Δ	12
Zinc (Zn)	< 100	46000

Remark : Mg/Kg = Milligram Per Kilogram

Δ = Confirmation Test Was Performed On The Tested Component. The Reported Value Was The Sum Of The Migration Values Of Methyl Tin, Butyl Tin, Dibutyl Tin, Tributyl Tin, Tetrabutyl Tin, N-Octyl Tin, Di-N-Octyl Tin, Di-N-Propyl Tin, Diphenyl Tin And Triphenyl Tin After Converted To Tributyl Tin By Calculation.

<sup>++</sup> = Unless The Test Results Were Marked With "#" Or "Δ", Chromium (III) & Chromium (VI) And Organic Tin Contents Were Not Directly Determined And Were Derived From Migration Results Of Total Chromium And Tin Respectively.

- Organic Tin Test Result Was Expressed As Tributyl Tin.

Tested Component : Silver Color Metal .

2 Toxic Elements Analysis

With Reference To Section 4.3.5 Of The ASTM Standard Consumer Safety Specification On Toy Safety ASTM F 963-16, Acid Digestion And Extraction Methods Were Used And Toxic Elements Content Were Determined By Inductively Coupled Argon Plasma Spectrometry.

	Result In ppm	Applicant's Limit In ppm
Sol. Barium (Ba)	ND	1000
Sol. Lead (Pb)	ND	90
Sol. Cadmium (Cd)	ND	75
Sol. Antimony (Sb)	ND	60
Sol. Selenium (Se)	ND	500
Sol. Chromium (Cr)	ND	60
Sol. Mercury (Hg)	ND	60
Sol. Arsenic (As)	ND	25

Remark: Sol. = Soluble  
 ND = Not detected  
 Detection limit = 10 ppm  
 ppm = Parts Per Million

Tested Component : Silver Color Metal .

3 Soluble Lead Content Test

Test Method: Japan Toy Safety Standard 2016 Part 3 Chemical Properties Clause 2.7, 2.12, Acid Extraction Method Was Used And Soluble Lead Content Was Determined By Inductively Coupled Argon Plasma Spectrometry.

Result (mg/kg)	Requirement (mg/kg)
< 5	90

Remark: mg/kg = milligram per kilogram

Tested Component : Silver Color Metal .

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