

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

Date: Feb 09, 2018

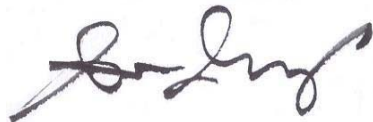
Attn: LILY/NANCY

Sample Description:

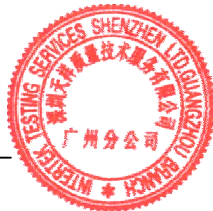
One (1) piece of submitted sample said to be Bronze metal plate.

Standard : --  
Buyer's Name : WORLD WIDE  
Colour : --  
Vendor : WORLD WIDE  
Manufacturer : CHINA  
Supplier : CHINA  
Style No./Name : --  
P.O. No. : --  
Ref. : BRONZE  
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

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



Huang Ning, Andy  
Assistant General Manager



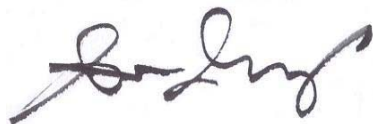
Conclusion:

<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

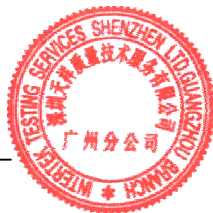
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Should you have any query on this report, you may contact at [gzfootwear@intertek.com](mailto:gzfootwear@intertek.com)

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) .

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)	273	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)	< 10	180000
Organic Tin <sup>++</sup>	< 3.0	12
Zinc (Zn)	176	46000

Remark : Mg/Kg = Milligram Per Kilogram

<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: Bronze 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.

	<u>Result In ppm</u>	<u>Applicant's Limit In ppm</u>
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: Bronze 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.

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

Remark: mg/kg = milligram per kilogram

Tested Component: Bronze Color Metal.

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