

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:

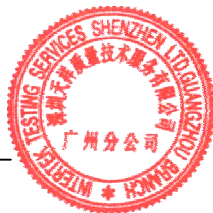
Several groups of submitted samples said to be:

- (A) Gold plated
- (B) Antique Gold plated
- (C) Silver plated
- (D) Antique Silver plated
- (E) Nickel plated
- (F) Black Nickel plated
- (G) Satin Gold plated
- (H) Satin Silver plated
- (I) Chrome plated
- (J) Copper plated
- (K) Antique Copper plated
- (L) Bronze plated
- (M) Antique Bronze plated

Standard : --
Buyer's Name : WORLD WIDE
Colour : --
Vendor : WORLD WIDE
Manufacturer : CHINA
Supplier : CHINA
Style No./Name : --
P.O. No. : --
Ref. : 1.GOLD PLATED; 2. ANTIQUE GOLD PLATED; 3. SILVER PLATED; 4. ANTIQUE SILVER PLATED; 5. NICKEL PLATED; 6. BLACK NICKEL PLATED; 7. SATIN GOLD PLATED; 8. SATIN SILVER PLATED; 9. CHROME PLATED; 10. COPPER PLATED; 11. ANTIQUE COPPER PLATED; 12. BRONZE PLATED; 13. ANTIQUE BRONZE PLATED
AGE RANGE: 3+
Country Of Origin : MADE IN CHINA
Goods Exported To : WORLD WIDE
Date Received/Date Test Started : Jan 22, 2018
Date Final Information Confirmed: --

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

Huang Ning, Andy
Assistant General Manager

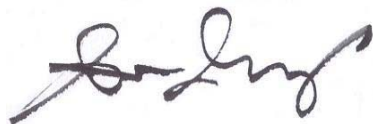


Conclusion:

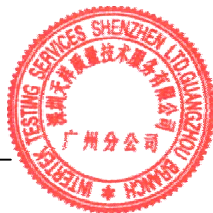
<u>Index</u>	<u>Test Item</u>	<u>Result</u>
1.	19 Toxic Element Migration Test	Meet Applicant's Requirement
2.	Toxic Elements Analysis	Meet Applicant's Requirement
3.	Soluble Lead Content Test	Pass

Should you have any query on this report, you may contact at 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 Chromium (III)/Chromium (VI) Were Performed, Determined By Ion Chromatography(IC) .

Category (III): Scraped-Off Toy Material

Element	Result (Mg/Kg)							Limit (Mg/Kg)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) ⁺⁺	< 10	< 10	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) ⁺⁺	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	160
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	18	< 10	30	< 10	64	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	180000
Organic Tin ⁺⁺	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	< 100	< 100	46000

19 Toxic Element Migration Test (Cont)

Category (III): Scraped-Off Toy Material

Element	Result (Mg/Kg)							Limit (Mg/Kg)
	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) ⁺⁺	< 10	< 10	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) ⁺⁺	< 0.1	< 0.1	<0.1#	< 0.1	< 0.1	< 0.1	<0.1#	0.2
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	118	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	160
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	54	< 10	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	< 10	< 10	180000
Organic Tin ⁺⁺	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	< 100	< 100	46000

Remark : Mg/Kg = Milligram Per Kilogram

= Confirmation Of Chromium (VI) Test Was Performed On The Tested Component. And The Reported Value Of Migration Of Chromium (III) =Migration Value Of Total Chromium – Migration Value Of Chromium(VI).

⁺⁺ = 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.

The Sample Weight Of Component (14) Was Found To Be 12.3 mg , The Result Was Calculated As 100 mg.

Tested Components: Please See Component List In The Last Section Of This Report.

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
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	
Sol. Barium (Ba)	ND	ND	ND	ND	ND	ND	ND	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	ND	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	ND	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	ND	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	ND	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	ND	25

	Result In ppm							Applicant's Limit In ppm
	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
Sol. Barium (Ba)	ND	ND	ND	ND	ND	ND	ND	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	ND	ND	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	ND	ND	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	ND	ND	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	ND	ND	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	ND	ND	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	ND	ND	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	ND	ND	25

Remark: Sol. = Soluble
 ND = Not Detected
 Detection Limit = 10 ppm
 ppm = Parts Per Million
 The Sample Weight Of Component (14) Was Found To Be 12.3 mg , The Result Was Calculated As 100 mg.

Tested Components : Please See Component List In The Last Section of This Report

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>Tested Component</u>	<u>Result (mg/kg)</u>	<u>Requirement (mg/kg)</u>
(1)	< 5	90
(2)	< 5	90
(3)	< 5	90
(4)	< 5	90
(5)	< 5	90
(6)	< 5	90
(7)	< 5	90
(8)	< 5	90
(9)	< 5	90
(10)	< 5	90
(11)	< 5	90
(12)	< 5	90
(13)	< 5	90
(14)	< 5	90

Remark: mg/kg = Milligram Per Kilogram
The Sample Weight Of Component (14) Was Found To Be 12.3 mg , The Result Was Calculated As 100 mg.

Tested Components: Please See Component List In The Last Section of This Report

Component List:

- (1) Gold Color Metal (Sample A).
- (2) Antique Gold Color Metal Excluding Lacquer (Sample B).
- (3) Silver Color Metal (Sample C).
- (4) Antique Silver Color Metal Excluding Lacquer (Sample D).
- (5) Nickel Color Metal (Sample E).
- (6) Black Nickel Color Metal Excluding Lacquer (Sample F).
- (7) Satin Gold Color Metal (Sample G).
- (8) Satin Silver Color Metal (Sample H).
- (9) Chrome Color Metal (Sample I).
- (10) Copper Color Metal (Sample J).
- (11) Antique Copper Color Metal Excluding Lacquer (Sample K).
- (12) Bronze Color Metal (Sample L).
- (13) Antique Bronze Color Metal Excluding Lacquer (Sample M).
- (14) Lacquer On Metal (Sample B,D,F,K & M).

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.

