

Applicant: DONGGUAN JIAN PLASTIC & METAL PRODUCTS

LTD.

NO.3-1, SOUTH GAOBU BLVD GAOBU, DONGGUAN, CHINA

ZIP CODE: 523278 Attn: EMMY

## Sample Description:

Several groups of submitted sample said to be

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

 Standard
 : - 

 Ref. No.
 : - 

 P.O. No.
 : - 

Buyer's Name : World Wide Vendor : World Wide Supplier : CHINA Manufacturer : CHINA

Ref. : 1.COPPER PLATED; 2.ANTIQUE COPPER PLATED; 3.ANTIQUE BRONZE

PLATED; 4.BRONZE PLATED; 5.CHROME PLATED; 6.NICKEL PLATED; 7.BLACK NICKEL PLATED; 8.ANTIQUE SILVER PLATED; 9.SATIN SILVER PLATED; 10.SILVER PLATED; 11.GOLD PLATED; 12.SATIN GOLD PLATED; 13.ANTIQUE

Date:

Mar 16, 2016

GOLD PLATED AGE RANGE: 3+

Country Of Origin : MADE IN CHINA
Goods Exported To : World Wide
Date Received/Date Test Started : Mar 01, 2016
Date Final Information Confirmed: Mar 15, 2016

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou GDD Branch

Huang Ning, Andy

Assistant General Manager



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#### Conclusion:

<u>Index</u>	<u>Test Item</u>	Result
1.	Soluble Lead Content Test on Metal Toy Accessories	Pass
2.	Heavy Elements Analysis	Pass
3.	Toxic Element Migration Test (19)	Pass

Should you have any query on this report, you may contact at <a href="mailto:gzfootwear@intertek.com">gzfootwear@intertek.com</a>

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Tests Conducted (As Requested By The Applicant)

## 1 Soluble Lead Content Test on Metal Toy Accessories

Test Method: Japan Toy Safety Standard 2012 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.

Tested Component (1) To (13) Result (mg/kg) Requirement (mg/kg) 90

Remark: mg/kg = milligram per kilogram

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

## 2 Heavy Elements Analysis

With reference to Section 4.3.5.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11, acid extraction method was used and heavy elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

	<u>Result in ppm</u>	<u>Limit</u>
	(1) To (13)	<u>ppm</u>
Sol. Barium (Ba)	< 5	1000
Sol. Lead (Pb)	< 5	90
Sol. Cadmium (Cd)	< 5	75
Sol. Antimony (Sb)	< 5	60
Sol. Selenium (Se)	< 5	500
Sol. Chromium (Cr)	< 5	60
Sol. Mercury (Hg)	< 5	60
Sol. Arsenic (As)	< 2.5	25

### Remark:

Sol. = Soluble

ppm = parts per million

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

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Tests Conducted (As Requested By The Applicant)

# 3 Toxic Element Migration Test (19)

With Reference To EN71-3:2013 And Followed By Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES) and/or Inductively Coupled Plasma Mass Spectrometry (ICP/MS).

Category (III): Scraped-off toy material

<u>Element</u>		<u>R</u>	esult (mg/kg	1)		Applicant's
	(1)	(2) To (5)	(6)	(7)	(8)	Limit
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	(mg/kg) 70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) ++	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) ++	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	15	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	160
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	90	269	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	180000
Organic tin ++	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	288	< 100	46000

<u>Element</u>			esult (mg/kg			Applicant's
	(9)	(10)	(11)	(12)	(13)	<u>Limit</u>
						(mg/kg)
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) ++	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) ++	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	0.2
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	160
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	81	23	75	76	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	180000
Organic tin ++	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	46000

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Toxic Element Migration Test (19) (Cont):

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.
	- As per General Court of the European Union Judgment in Case T-198/12 dated 14 May 2014,
	the General Court confirmed that Germany could maintain its limit value for
	Lead(Pb)(90mg/kg) in toys but not for Antimony (Sb), Arsenic (As), Mercury (Hg) and Barium
	(Ba).

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

#### Component List:

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

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