



# Test Report

No.T51710190066JP

Date: FEB 22, 2017

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

The following samples were submitted and identified by/on behalf of the client as:

1.COPPER PLATED;2. ANTIQUE COPPER PLATED;3.ANTIQUE BRONZE PLATED;4.BRONZE PLATED;5.CHROME PLATED;6.NICKET 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 GOLD PLATED

Buyer : WORLD WIDE  
Manufacturer : CHINA  
Country of Origin : MADE IN CHINA  
Country of Destination : WORLD WIDE  
Requested Age Grading : 3+  
Sample Receiving Date : FEB 17, 2017  
Testing Period : FEB 17, 2017 TO FEB 22, 2017

Test Requested		Conclusion
1.	EN 71-3:2013 + A1:2014 – Safety of toys – Part 3 – Migration of certain elements (All conclusive testing)	PASS
2.	ASTM F963-16 - Standard Consumer Safety Specification on Toy Safety – Heavy Elements content  Selected test items as specified by the applicant, please refer to test result page(s) for details	--
2.1	Heavy Elements content in paint or similar surface coating materials in submitted sample in accordance with ASTM F963-16 - Standard Consumer Safety Specification on Toy Safety, Clause 4.3.5.1	SEE RESULT
2.2	Heavy Elements content in substrate materials in submitted sample in accordance with ASTM F963-16 - Standard Consumer Safety Specification on Toy Safety, Clause 4.3.5.2	PASS



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Test Requested	Conclusion
3. <b>Japan Toy Safety Standard: Part 3: 2016 First edition 2016.4.1 (Selected test items as specified by the applicant, please refer to test result page(s) for details)</b>	--
Clause 1.5 Paint coating - Soluble Heavy metals	See Results
Clause 1.11 Metals used for toy	PASS

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Standards Technical  
Services Co., Ltd. Shenzhen Branch Testing Center

Feng Shaohong, Jessica  
Lab Manager



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**Results:**
**1. EN 71-3:2013 + A1:2014 – Safety of toys – Part 3 – Migration of Certain Elements**
Category III: Scrapped-off toy material

Method: With reference to EN71-3:2013 + A1:2014. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV/VIS and organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
	1	2	3		
<b>Specimen No.</b>	<b>1</b>	<b>2</b>	<b>3</b>	--	--
<b>Mass of trace amount</b> (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	160
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
	4	5	6		
<b>Specimen No.</b>				--	--
<b>Mass of trace amount</b> (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	160
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	46	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)			MDL	Permissible Limit
	7	8	9		
<b>Specimen No.</b>				--	--
<b>Mass of trace amount</b> (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	160
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	28	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



Test Item(s)	Result(s)		MDL	Permissible Limit
	10	11		
<b>Specimen No.</b>			--	--
<b>Mass of trace amount</b> (mg)	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	10	160
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	100	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



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Test Item(s)	Result(s)		MDL	Permissible Limit
	12	13		
<b>Specimen No.</b>			--	--
<b>Mass of trace amount</b> (mg)	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	10	160
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



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### Specimen Description:

1. Antique bronze metal casting (A)
2. Bronze metal casting (B)
3. Golden metal casting (C)
4. Satin golden metal casting (D)
5. Antique golden metal casting (E)
6. Antique coppery metal casting (F)
7. Coppery metal casting (G)
8. Antique silvery metal casting (H)
9. Satin silvery metal casting (I)
10. Silvery metal casting (J)
11. Nickel metal casting (K)
12. Chrome metal casting (L)
13. Black nickel metal casting (M)

- Note:
- mg/kg = milligram per kilogram
  - mg = milligram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - 1% = 10000 mg/kg = 10000 ppm
  - As received, test portion of transparent Lacquer coating (A, E, F, G, H, K) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN71-3:2013 + A1:2014.





**2.1 ASTM F963-11, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials**

Note: - As received, test portion of transparent Lacquer coating (A, E, F, G, H, K) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-11 Clause 8.3.3.6 (2) – Selection of Test Portions

**2.2 ASTM F963-16, Clause 4.3.5.2 – Heavy Elements in Substrate Materials**

Method: With reference to ASTM F963-16 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm) -- Other Than Modeling Clays				90	60	25	1000	75	60	60	500
Migration Limit (ppm) -- Modeling Clays				90	60	25	250	50	25	25	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	3	1	/	ND	ND	ND	ND	ND	ND	ND	ND
2	3	2	/	ND	ND	ND	ND	ND	ND	ND	ND
3	3	3	/	ND	ND	ND	ND	ND	ND	ND	ND
4	3	4	/	ND	ND	ND	ND	ND	ND	ND	ND
5	3	5	/	ND	ND	ND	ND	ND	ND	ND	ND
6	3	6	/	ND	ND	ND	ND	ND	ND	ND	ND
7	3	7	/	ND	ND	ND	ND	ND	ND	ND	ND
8	3	8	/	ND	ND	ND	ND	ND	ND	ND	ND
9	3	9	/	ND	ND	ND	ND	ND	ND	ND	ND
10	3	10	/	ND	ND	ND	ND	ND	ND	ND	ND



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Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se			
<b>MDL (ppm)</b>	5	5	2.5	10	5	5	5	10			
<b>Migration Limit (ppm) -- Other Than Modeling Clays</b>	90	60	25	1000	75	60	60	500			
<b>Migration Limit (ppm) -- Modeling Clays</b>	90	60	25	250	50	25	25	500			
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
11	3	11	/	ND	ND	ND	ND	ND	ND	ND	ND
12	3	12	/	ND	ND	ND	ND	ND	ND	ND	ND
13	3	13	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Antique bronze metal casting (A)
2. Bronze metal casting (B)
3. Golden metal casting (C)
4. Satin golden metal casting (D)
5. Antique golden metal casting (E)
6. Antique copper metal casting (F)
7. Copper metal casting (G)
8. Antique silvery metal casting (H)
9. Satin silvery metal casting (I)
10. Silvery metal casting (J)
11. Nickel metal casting (K)
12. Chrome metal casting (L)
13. Black nickel metal casting (M)



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Shenzhen Branch Testing Center Headlines

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- Note:
- ppm = parts per million
  - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - Migration results of eight elements shown are of the adjusted analytical results

### **3. Japan Toy Safety Standard: Part 3: 2016 First edition 2016.4.1**

Method: As specified in Japan Toy Safety Standard: Part 3: 2016 First edition 2016.4.1

#### **Clause 1.5 Paint coating applied to the body or the components of the toys (excluding the printing ink used for paper containers)**

- Note:
- As received, test portion of transparent Lacquer coating (A, E, F, G, H, K) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements.
  - As received, antique bronze electroplated plating (A), bronze electroplated plating (B), golden electroplated plating (C), satin golden electroplated plating (D), antique golden electroplated plating (E), antique coppery electroplated plating (F), coppery electroplated plating (G), antique silvery electroplated plating (H), satin silvery electroplated plating (I), silvery electroplated plating (J), nickel electroplated plating (K), chrome electroplated plating (L), black nickel electroplated plating (M) was/ were not applicable to the coating tests as they are metal plating(s).



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**Clause 1.11 Metals used for toy (neither painted nor covered)**

Test Item(s)	Pb
MDL (mg/kg)	5
Limit (mg/kg)	90
Specimen Description	Adjusted Migration Result(s) (mg/kg)
1. Antique bronze metal casting (A)	ND
2. Bronze metal casting (B)	ND
3. Golden metal casting (C)	ND
4. Satin golden metal casting (D)	ND
5. Antique golden metal casting (E)	ND
6. Antique coppery metal casting (F)	ND
7. Coppery metal casting (G)	ND
8. Antique silvery metal casting (H)	ND
9. Satin silvery metal casting (I)	ND
10. Silvery metal casting (J)	ND
11. Nickel metal casting (K)	ND
12. Chrome metal casting (L)	ND
13. Black nickel metal casting (M)	ND

- Note:
- mg/kg = milligram per kilogram
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - Results shown are of the adjusted analytical result

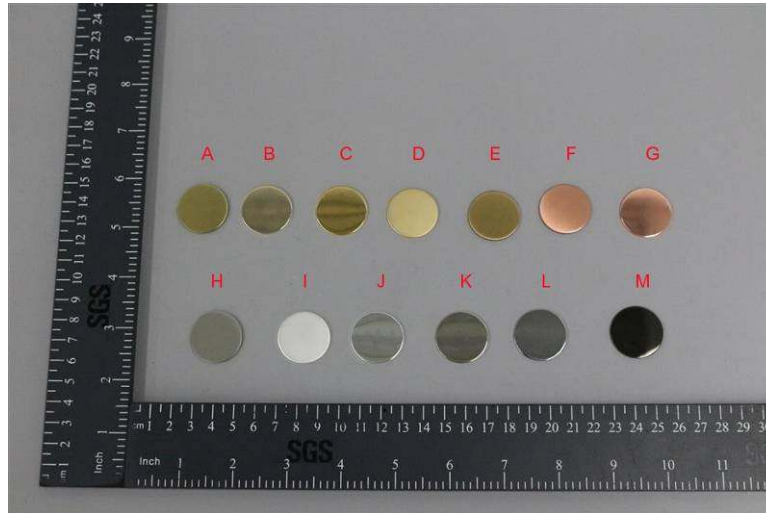


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### Sample Photo:



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\*\*\* End of Report \*\*\*



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