



## Test Report

No.T51710190050JP

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:

MIXTURE INK FOR SOFT PVC PRINTING

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



SGS-CSTC Testing Services Co., Ltd.  
Shenzhen Branch Testing Center Hardlines

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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)	--
	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	PASS
3.	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)	--
	Clause 1.5 Paint coating, Vinyl chloride resin coating - Soluble Heavy metals	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



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

Specimen Description:

1. Grey-black wet paint



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- Note:
- mg/kg = milligram per kilogram
  - mg = milligram
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - 1% = 10000 mg/kg = 10000 ppm

## **2. ASTM F963-16, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating 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)				90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	2	1	/	ND	ND	ND	ND	ND	ND	ND	ND

### Specimen Description:

1. Grey-black wet paint

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



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**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, Vinyl chloride resin coating applied to the body or the components of the toys (excluding the printing ink used for paper containers)**

Test Items	Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (mg/kg)	5	5	2.5	10	5	5	5	10
Limit (mg/kg)	90	60	25	1000	75	60	60	500
Specimen No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (mg/kg)						
1	/	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

- 1. Grey-black wet paint

- Note:
- mg/kg = milligram per kilogram
  - mg = milligram
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - / = > 100mg
  - Results of soluble elements shown are of the adjusted analytical results



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



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