



Test Report

No.T51710190058JP

Date: FEB 22, 2017

Page 1 of 6

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:

ALUMINUM

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) (Selected test items as specified by the applicant, please refer to test result page(s) for details)	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	NOT APPLICABLE (SEE REMARK)
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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Page 2 of 6

Test Requested	Conclusion
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 1.11 Metals used for toy	PASS

Remark: There were no surface coating found in the said submitted sample.

***** 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
Specimen No.	1	--	--
Mass of trace amount (mg)	--	--	--
Soluble Aluminium (Al) (mg/kg)	263	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. Silvery metal part



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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

2.2 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	2	1	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Silvery metal part

- 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



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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 1.11 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. Silvery metal part	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

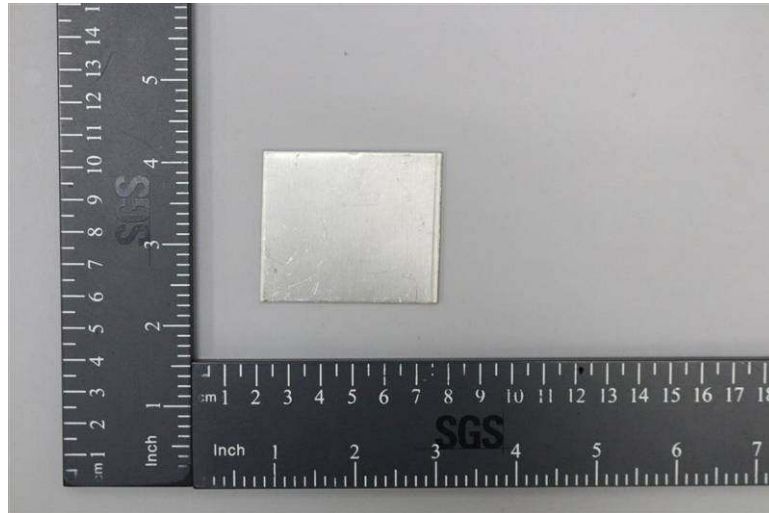


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