

**Test Report**

Number: SHAH00825027

Applicant: HANGZHOU ZHIBANG TOYS FACTORY  
NO.22 QIAOYUAN ROAD XIAOSHAN DISTRICT  
HANGZHOU CHINA  
Attn: SAM

Date: 16 Jun, 2017

Sample Description:

Four ( 4) groups/pieces of submitted sample said to be :

Item Name : Magnetic Building Tiles Toys, Magnetic Building Tiles, Magnetic construction building tiles.  
Quantity : 4  
Labelled Age Group : 3+  
Country Of Origin : China

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

<u>Tested Samples</u>	<u>Standard – U.S. ASTM F963-16</u>	<u>Result</u>
Submitted Samples	Physical And Mechanical Tests	Pass
	Flammability Test of Materials Other Than Textile Materials	Pass
Tested component(s) of submitted sample	U.S. ASTM F963-16 for total Lead content	Pass
	U.S. ASTM F963-16 section 4.3.5.2(2)(b) for soluble elements content for non-surface coating materials	Pass
	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate)	Pass
	Phthalates content requirement in US Consumer Product Safety Improvement Act 2008 & Amendment H.R.2715	Pass

To be continued

Authorized By:  
Intertek Testing Services Ltd, Shanghai, HangZhou Branch



Leo Shi  
General Manager



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Tests Conducted

### 1. Physical and Mechanical Tests

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-16.

Applicant's Specified Age Group for Testing: For ages 3 years and up

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations: -

<u>Test</u>	<u>FHSA</u>	<u>Parameter</u>
Impact Test	Section 1500.53(b)	4 x 3.0 ft
Torque Test	Section 1500.53e)	4 in-lbf
Tension Test	Section 1500.53(f)	15 lbf
Compression Test	Section 1500.53(g)	30 lbf

<u>Section</u>	<u>Testing Items</u>	<u>Assessment</u>
4.1	Material Quality	P
4.5	Sound-Producing Toys	NA
4.6.1	Toys Intended for Children under 36 Months (Small Objects)	NA
4.6.2	Mouth-Actuated Toys	NA
4.6.3	Toys And Games for 36 Months to 72 Months (Small Part Warning)	NA
4.7	Accessible Edges	P
4.8	Projections	NA
4.9	Accessible Points	P
4.10	Wires Or Rods	NA
4.11	Nails And Fasteners	P
4.12	Plastic Film	NA
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires and Axles	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	NA
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25	Battery-Operated Toys	NA
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA



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<u>Section</u>	<u>Testing Items</u>	<u>Assessment</u>
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	P
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labelling Requirement	NA
6	Instructional Literature	NA
7	Producer's Markings	#1
	- Name of Producer/Distributor	No
	- Address	No

Remark: The submitted samples were undergone the tests in accordance with Section 8.5 through Section 8.18 and 8.21 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass

NA = Not Applicable

#1 = The final product or its packaging must be marked with the name and address of the producer or distributor as specified in section 7.1 of U.S. ASTM F963.

## 2.Flammability Test

As per section 4.2 of the ASTM Standard Consumer Safety Specification On Toy Safety F963-16.

Result = Ignited But Self-Extinguished before Burn Rate Could be Determined

## 3.Total Lead (Pb) Content

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-16, test method CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

(II) Non-surface coating

<u>Tested components</u>	<u>Result in ppm</u>	<u>Limit (ppm)</u>
(1)	<20	100
(2)	<20	100
(3)	21	100

Remark: ppm = parts per million = mg/kg

Tested Components: See component list in the last section of this report.



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### 4.Soluble Elements Analysis In Non-Surface Coating Materials (Substrate Except Modelling Clay)

As per section 4.3.5.2(2)(b) of the ASTM standard consumer safety specification on toy safety F963-16, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

	<u>Result (ppm)</u>			<u>Limit (ppm)</u>
	(1)	(2)	(3)	
Sol. Barium (Ba)	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	25

Remark: Sol. = soluble  
ppm = parts per million = mg/kg

Tested components: See component list in the last section of this report.

### 5.Total Lead (Pb) Content In Non-Surface Coating Materials (Substrate)

As per standard operating procedures for determining total Lead (Pb) in children's products, test method(s) CPSC-CH-E1002-08.1 and/or CPSC-CH-E1001-08.1 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Components</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(1)	<20	100
(2)	<20	100
(3)	21	100

Remark: ppm = Parts per million = mg/kg

Tested Components: See component list in the last section of this report.

### 6.Phtalate content test

With reference to CPSC-CH-C1001-09.3, by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

<u>Tested compound</u>	<u>Result (%.w/w)</u>	<u>Limit(%.w/w)</u> <u>(MAX.)</u>
	(1)	
Di-butyl phthalate (DBP)	ND	0.1
Di(2-ethyl hexyl) phthalate(DEHP)	ND	0.1
Benzyl butyl phthalate (BBP)	ND	0.1
Di-iso-nonyl phthalate (DINP)	ND	0.1
Di-n-octyl phthalate (DNOP)	ND	0.1
Di-iso-decyl phthalate (DIDP)	ND	0.1



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Remark: The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 & Amendment H.R.2715 for prohibition on sale of certain products Containing specified phthalates.

Detection Limit = 0.01%(w/w)

ND = Not Detected

Tested Components: See component list in the last section of this report.

### Tested components:

- 1 Yellow plastic
- 2 magnet
- 3 Golden metal



Picture1: Submitted sample

Date Sample Received: Jun 12, 2017

Testing Period: Jun 12, 2017 to Jun 16,2017

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End Of Report

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