

GWSTC Test Report

Date: 2019-01-23

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NO: GP168307

APPLICANT: (Code: JAT001)

AO BEI HUI TOY FACTORY
CHENGHAI DISTRICT, SHANTOU CITY
GUANGDONG PROVINCE
CHINA

DESCRIPTION OF SAMPLE(S):

Two (2) groups of submitted sample said to be:

(A) One (1) style, two (2) sets of finished product (photo attached at Appendix A):
TOYS SERIES

(FOR DETAILS OF SAMPLE DESCRIPTION, SEE PAGE 2)

(B) One (1) piece of component used for (A)

COUNTRY OF ORIGIN: CHINA

COUNTRY OF DESTINATION: USA

DATE OF SAMPLE(S) RECEIVED:

2019-01-15

INVESTIGATION REQUESTED:

European Standard for Safety of toys

- EN71:Part 1:2014+A1:2018 for mechanical and physical properties test
- EN71:Part 2:2011+A1:2014 for flammability test
- EN71:Part 3:2013+A3:2018 for migration of certain elements (Test on selected materials only)

CONCLUSION:

EN71:Part 1:2014+A1:2018

The submitted sample complied with the requirement.

EN71:Part 2:2011+A1:2014

The submitted sample complied with the requirement.

EN71:Part 3:2013+A3:2018

The selected materials complied with the requirement.

Approved Signatory:



Roger Liu Xin Xiang
Senior Engineer

Chen Gui Cai
Lab. Manager

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DESCRIPTION OF SAMPLE(S):

ITEM NO.: KU001, KU002, KU003, KU004, KU005, KU006, KU007, KU008, KU009, KU010, KU011, KU012, KU013, KU014, KU015, KU016, KU017, KU018, KU019, KU020, KU021, KU022, KU023, KU024, KU025, KU026, KU027, KU028, KU029, KU030, KU001B, KU002B, KU003B, KU004B, KU005B, KU006B, KU007B, KU008B, KU009B, KU010B, KU011B, KU012B, KU013B, KU014B, KU015B, KU016B, KU017B, KU018B, KU019B, KU020B, KU021B, KU022B, KU023B, KU024B, KU025B, KU026B, KU027B, KU028B, KU029B, KU030B, KU001A, KU002A, KU003A, KU004A, KU005A, KU006A, KU007A, KU008A, KU009A, KU010A, KU011A, KU012A, KU013A, KU014A, KU015A, KU016A, KU017A, KU018A, KU019A, KU020A, KU021A, KU022A, KU023A, KU024A, KU025A, KU026A, KU027A, KU028A, KU029A, KU030A, KU001C, KU002C, KU003C, KU004C, KU005C, KU006C, KU007C, KU008C, KU009C, KU010C, KU011C, KU012C, KU013C, KU014C, KU015C, KU016C, KU017C, KU018C, KU019C, KU020C, KU021C, KU022C, KU023C, KU024C, KU025C, KU026C, KU027C, KU028C, KU029C, KU030C, 999A, 999B, 999C, 999D, 999E, 999F, 999G, 999H, 999I, 999J, 999K, 999L, 999M, 999N, 999O, 999P, 999Q, 999R, 999S, 999T, 999U, 999V, 999W, 999X, 999Y, 999Z, KU001-2A, KU003B2, KU012B2, KU013B2, KU012-13B

DATE TESTED:

EN71

Part 1 & 2: 2019-01-15 to 2019-01-22, 2019-01-23

Part 3: 2019-01-15 to 2019-01-17

AGE GRADING:

The sample was appropriately age graded with the marking of ‘Small parts not for children under 3 years’. The applicant also requested it be tested according to the age grade of 3 years and up.

AGE GRADING FOR TESTING:

3 years and up

TEST RESULTS:

- (1) EN71:Part 1:2014+A1:2018 - Mechanical and physical properties

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	----
4.1	Material cleanliness	Pass
4.7	Edges	Pass

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<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.8	Points and metallic wires	Pass
4.20	Acoustics	Pass
7	<u>Warning, marking and instructions for use</u>	----
7.1	General	Pass
7.2	Toys not intended for children under 36 months The following warning was in English on the packaging: 'WARNING: CHOKING HAZARD - Small parts. Not for children under 3 years'.	Pass* ¹

*¹ = The standard states that warning and instructions for use should be given in the national language of the country where the toy is sold. The warning appeared on the packaging was in English.

Markings and instructions for use:

Item	Observation Result
CE marking	Present
The manufacturer's or importer's name, registered trade name or registered trade mark and the address	Present
Product ID	Absent
Cleaning and washing instruction	NA
Instructions and safety information	Present

- Remark:
1. Toys made available on the market shall bear the CE marking.
The CE marking shall be affixed visibly, legibly and indelibly.
The CE marking shall be at least 5 mm high.
 2. The manufacturer's or importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
 3. Manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.
 4. A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soaked. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.
 5. Manufacturers and importers shall ensure that the toy is accompanied by instructions and safety information in a language or languages easily understood by consumers, as determined by the Member State concerned.

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6. The information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.

(2) EN71:Part 2:2011+A1:2014 – Flammability

Applicable

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General	Pass

(3) EN71:Part 3:2013+A3:2018 - Migration of certain elements (Category III: Scraped-off materials)

Determined by: Inductively Coupled Plasma-Mass Spectrometer /
Gas Chromatograph-Mass Spectrometer/
Liquid Chromatograph-Inductively Coupled Plasma-Mass Spectrometer

Plastic materials

- (a) Transparent yellow plastic
- (b) Transparent green plastic
- (c) White plastic
- (d) Red plastic
- (e) Yellow plastic

Elements	Result(mg/kg)	Limit(mg/kg)
	(a)~(e)	
Soluble cadmium	ND	17
Soluble arsenic	ND	47
Soluble mercury	ND	94
Soluble antimony	ND	560
Soluble boron	ND	15000
Soluble lead	ND	23
Soluble cobalt	ND	130
Soluble selenium	ND	460
Soluble manganese	ND	15000
Soluble nickel	ND	930
Soluble strontium	ND	56000
Soluble copper	ND	7700
Soluble aluminium	ND	70000
Soluble barium	ND	18750
Soluble zinc	ND	46000
Soluble tin	ND	180000
Soluble organic tin	ND	12
Soluble chromium (III)	ND	460
Soluble chromium (VI)	ND	0.2

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Remark:

1. ND = Not detected(see Table 1)
mg/kg=milligram per kilogram
2. The organic tin cations that were tested in this report include MeT, BuT, DBT, TBT, TeBT, MOT, DOT, DProT, DPHT, TPHT according to EN71:Part 3:2013+A3:2018.

TABLE 1:Detection limits of each elements

Elements	Detection limits(mg/kg)
Soluble cadmium	2
Soluble arsenic	5
Soluble mercury	5
Soluble antimony	10
Soluble boron.	10
Soluble lead	10
Soluble cobalt	10
Soluble selenium	10
Soluble manganese	10
Soluble nickel	10
Soluble strontium	100
Soluble copper	100
Soluble aluminium	100
Soluble barium	100
Soluble zinc	100
Soluble tin	1.7 ^{△1}
Soluble chromium	0.18
Soluble chromium (III)	10
Soluble chromium (VI)	0.18 ^{△2}
	0.02 ^{△3}

^{△1}= The tin content is used to satisfy organic tin on ICP-MS. When the result of total soluble tin content under the screening limit 1.7mg/kg, it means the sample satisfy the standard limit 12mg/kg for organic tin. Whenever the result of tin content exceed the screening limit of organic tin, confirmation test will be performed by GC-MSD.

^{△2}= The Chromium content is used to satisfy Chromium(III) and Chromium(VI) on ICP-MS. Whenever the result of Chromium content exceed the screening limit of Chromium(VI), confirmation test will be performed. The screening limit for Chromium(VI) is 0.18 mg/kg (total soluble Chromium).

^{△3}= When the result of Chromium content exceed the screening limit 0.18mg/kg, the content of Chromium(VI) will be tested by LC-ICP-MS, and the Detection limit of Chromium(VI) is 0.02 mg/kg.

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Appendix A



PHOTOGRAPH(S) OF THE SAMPLE

***** End of Document *****

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