

# TEST REPORT

Report No.: R-cn5-1500170-E

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**Applicant Name** : Winhand Toys Mfg Co.,Ltd/Wehand Toys Mfg Co.,Ltd  
**Applicant Address** : NO.106 HAIFA ROAD,HAICANG INDUSTRIAL DISTRICT,XIAMEN,CHINA

The following information was submitted and identified by/on behalf of the client:

**Sample Description** : PVC FOAM JIGSAW  
**Country of Origin** : CHINA  
**Destination** : Europe  
**Manufacturer** : WINHAND TOYS  
**Product Code/  
Item No./Style No.** : /  
**Supplier** : WINHAND TOYS  
**Buyer** : /

**Tested Age Group** : 3+  
**Receiving Date** : Jan.12,2015  
**Testing Period** : Jan.12,2015- Jan.23,2015  
**Testing Category** : Applicant Testing  
**Test Requested** : As specified by client

**Testing Results** : Please refer to next page

### Testing summary of Submitted Sample and Tested Component on Submitted Sample:

No.	Test items	Conclusion
1	EN71-1:2011+A3:2014 for mechanical and physical properties excluding labelling requirement of clause 7.1	Pass
2	EN71-2:2011+A1:2014, Flammability	Pass
3	EN71-3:2013+A1:2014, Soluble Nineteen Heavy Metal	Pass

Approved by:   
Laboratory Manager



Issued Date: Jan.23, 2015  
No.15641057

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## Testing Results:

### 1. Mechanical and Physical Test

As per European standard on safety of toys EN71-1:2011+A3:2014

Clause	Requirement	Comment
4	General requirements	
4.1	Material	PASS
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	PASS
4.8	Points and metallic wires	PASS
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cord of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnet	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements	PASS
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA

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Clause	Requirement	Comment
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	#
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates and skateboards	NA
7.11	Toys intended to be attached to strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA

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Clause	Requirement	Comment
7.22	Toys with cords or chains intended for children of 18 months and over but under 36	NA

# = No packaging was submitted for testing. Hence, clause 7.1 General requirement for Warnings, markings and instructions for use was not assessed.

Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

## 1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, 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.

- Manufacturer's name was missed.
- Manufacturer's address was missed.
- Importer's name was missed.
- Importer's address was missed.
- Product identification code was missed.
- CE-marking was on the toy.

## 2. EN71-2:2011, Part 2: Flammability

As per European standard on safety of toys EN71-2:2011+A1:2014

Clause	Requirement	Comment
4.1	General	PASS
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

NA = Not Applicable

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**Test components:**

No.	Sample number	Description
001	R-cn5-1500170-E	Colorful paper(shell)
002		Jigsaw-Printing
003		Jigsaw-Plastic board
004		PVC board+Printing

**3. Migration of certain elements**

With reference to European standard on safety of toys EN 71-3:2013+A1:2014 – Migration of certain elements, acid extraction method was used and toxic elements content were determined by ICP-OES and GC-MS.

Element	MDL (mg/kg)	Result (mg/kg)				Limit (mg/kg)
		001	002	003	004	
Aluminium (Al)	2	19	22	ND	ND	70000
Antimony (Sb)	2	ND	ND	ND	ND	560
Arsenic (As)	2	ND	ND	ND	ND	47
Barium (Ba)	2	3	ND	ND	ND	18750
Boron (B)	2	ND	ND	ND	ND	15000
Cadmium (Cd)	2	ND	ND	ND	ND	17
Chromium (III) (Cr III)	2	ND	ND	ND	ND	460
Chromium (VI) (Cr VI)	0.1	ND	ND	ND	ND	0.2
Cobalt (Co)	2	ND	ND	ND	ND	130
Copper (Cu)	2	ND	ND	ND	ND	7700
Lead (Pb)	2	ND	ND	ND	ND	160
Manganese (Mn)	2	5	3	ND	ND	15000
Mercury (Hg)	2	ND	ND	ND	ND	94
Nickel (Ni)	2	ND	ND	ND	ND	930
Selenium (Se)	2	ND	ND	ND	ND	460
Strontium (Sr)	2	31	6	4	3	56000
Tin (Sn)	2	ND	56	9	10	180000
Organic tin	1	ND	ND	ND	ND	12
Zinc (Zn)	2	4	21	17	25	46000

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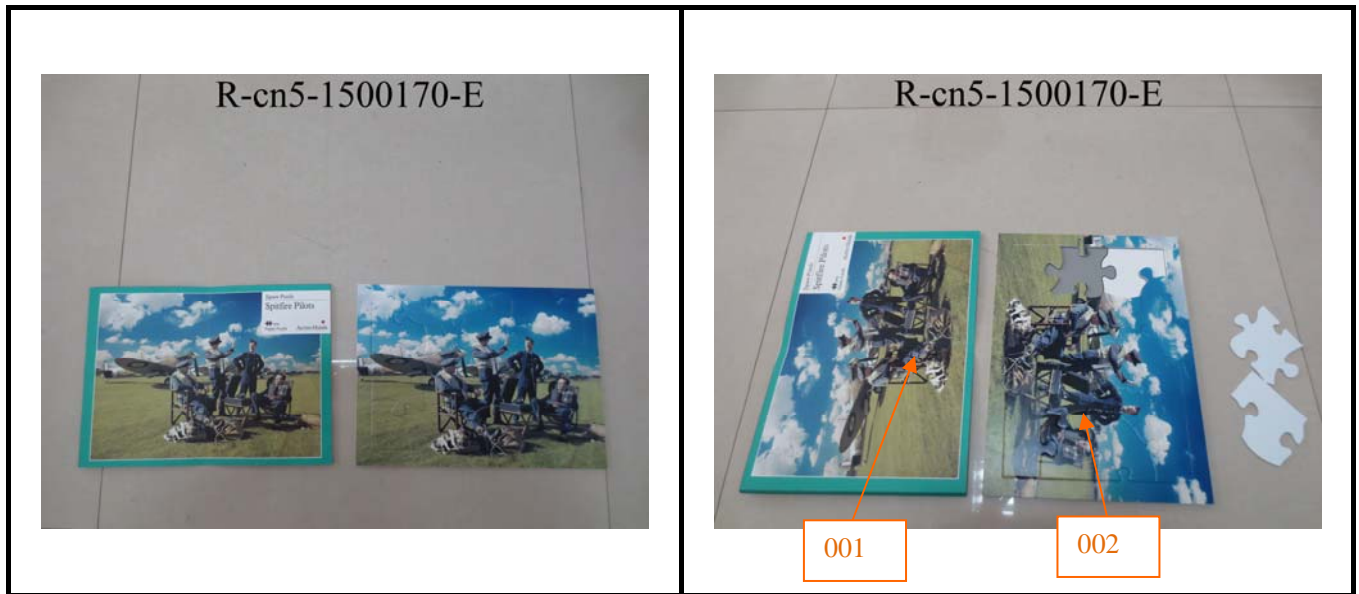
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**Note:**

- 1.1mg/kg=1ppm=0.0001%
- 2.MDL=Method Detection Limit
- 3.ND=No Detected(<MDL)
- 4.The Chromium (III) and Chromium (VI) content was reported as Chromium. Whenever the result of Chromium exceeded the limit of Chromium (III) and Chromium (VI), confirmation test was performed.
- 5.The Organic tin content was reported as tin unless specified.

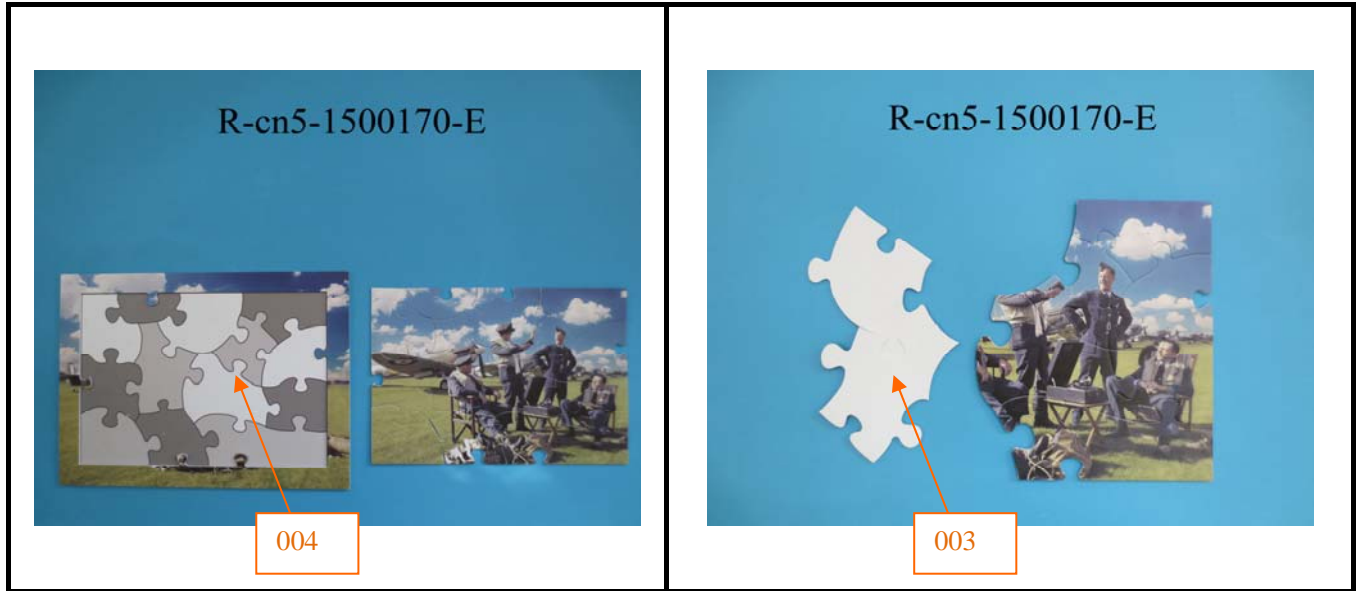
**Annex:** Sample Photo



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The results shown here refer only to the sample(s) tested unless otherwise stated. No written approval of the laboratory, the report can't be reproduced partly, except in full.

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