

# TEST REPORT

No.:ED180118032CR001

Date: January 23, 2018

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**Applicant** : QUAN XING TOYS FACTORY  
**Address** : LONGHU DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE,  
CHINA  
**Sample Name** : Chess series  
**Style/Item No.** : QX3702、QX3704、QX3706、QX3708、QX3710、QX3902、QX3904、  
QX3906、QX3908、QX3910、QX9800、QX9816、QX9814、QX9818、  
QX9702、QX9704、QX9706、QX9708、QX9710、QX9712、QX9714、  
QX9716、QX9718、QX9602、QX9604、QX9606、QX9608、QX9610、  
QX9612、QX9614、QX9616、QX9618、QX9502、QX9504、QX9506、  
QX9508、QX9510、QX9512、QX9514、QX9516、QX9518、QX9505A、  
QX9506A、QX9508A、QX9510A、QX9513A、QX9518A、QX9605A、  
QX9606A、QX9608A、QX9610A、QX9613A、QX9618A、QX9705A、  
QX9706A、QX9708A、QX9710A、QX9713A、QX9718A、QX9402、  
QX9404、QX9406、QX9408、QX9410、QX9412、QX9414、QX9416、  
QX9418、QX9202、QX9204、QX9206、QX9208、QX9210、QX9212、  
QX9214、QX9216、QX9218、QX9002、QX9004、QX9006、QX9008、  
QX9010、QX9012、QX9014、QX9016、QX9018、QX8702、QX8706、  
QX8708、QX8710、QX8714、QX8716、QX8718、QX8602、QX8604、  
QX8606、QX8608、QX8610、QX8612、QX8614、QX8616、QX8618、  
QX8605A、QX8606A、QX8608A、QX8610A、QX8613A、QX8618A、  
QX8502、QX8504、QX8506、QX8508、QX8510、QX8512、QX8514、  
QX8516、QX8518、QX8505A、QX8506A、QX8508A、QX8510A、  
QX8513A、QX8518A、QX8414、QX8416、QX8402、QX8412、QX8410、  
QX8404、QX8408、QX8406、QX8418、QX8405A、QX8406A、  
QX8408A、QX8410A、QX8413A、QX8418A、QX8302、QX8304、  
QX8306、QX8308、QX8310、QX8312、QX8314、QX8316、QX8318、  
QX8201、QX8200、QX8201A、QX8244、QX8266、QX8288、QX8299、  
QX8278、QX8205A、QX8206A、QX8208A、QX8210A、QX8213A、  
QX8218A、QX3502、QX3506、QX3508、QX3510、QX3514、QX3580、  
QX8205B、QX8206B、QX8208B、QX8210B、QX8213B、QX8218B、  
QX8005B、QX8006B、QX8008B、QX8010B、QX8013B、QX8018B、  
QX7805B、QX7806B、QX7808B、QX7810B、QX7813B、QX7818B、  
QX7018、QX7006、QX70810、QX7024、QX7016、QX7063、QX7711、  
QX7722、QX7733、QX7744、QX7700、QX7702、QX7704、QX7706、  
QX7708、QX7710、QX7712、QX7714、QX7716、QX7718、QX7720、  
QX7799、QX7724、QX7726、QX7728、QX7730、QX7734、QX7736、  
QX7742、QX77810、QX8001A、QX8000、QX8044、QX8066、QX8088、

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QX8099、QX8078、QX8005A、QX8006A、QX8008A、QX8010A、  
QX8013A、QX8018A、QX7844、QX7866、QX7888、QX7899、  
QX7800、QX7801、QX7802、QX7805、QX7806、QX7808、QX7810、  
QX7813、QX7818、QX7863、QX7878、QX7877、QX7801A、QX7881、  
QX2702、QX2706、QX2708、QX2710、QX2714、QX2718、QX7533、  
QX7544、QX7511、QX7500、QX5980、QX5920、QX5924、QX5930、  
QX5977、QX5910-A、QX59810、QX5936、QX58812、QX5824、  
QX5830、QX5836、QX58500、QX5880、QX5877、QX5810-A、  
QX5820、QX5700、QX57810、QX5736、QX5720、QX5777、QX5730、  
QX5724、QX5320、QX5324、QX5330、QX5336、QX5348、QX5366、  
QX5377、QX5380、QX53810、QX5310-A、QX5305A、QX5306A、  
QX5308A、QX5310A、QX5313A、QX5318A、QX6602、QX6604、  
QX6606、QX6608、QX6610、QX6612、QX6620、QX6644、QX6622、  
QX6633、QX6616、QX6618、QX6605A、QX6606A、QX6608A、  
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QX5612、QX5614、QX5620、QX5622、QX5624、QX5626、QX5628、  
QX5630、QX5636、QX5648、QX56500、QX56810、QX5666、QX5677、  
QX5610-A、QX5699、QX5600、QX8100、QX5510、QX5512、QX5514、  
QX5520、QX5522、QX5526、QX5528、QX5534、QX5536、QX5542、  
QX5524、QX5530、QX5532、QX5538、QX5540、QX5577、QX5566、  
QX55810、QX5230、QX5236、QX5228、QX5266、QX5220、QX5233、  
QX5277、QX5212、QX5280、QX5210-A、QX5224、QX52500、  
QX5480、QX5433、QX5436、QX5430、QX5428、QX5420、QX5424、  
QX54500、QX5410-A、QX5412、QX54810、QX5499、QX5477、  
QX5466、QX5405A、QX5406A、QX5408A、QX5410A、QX5413A、  
QX5418A、QX3620、QX3622、QX3624、QX3626、QX3628、QX3630、  
QX3636、QX3648、QX3654、QX3656-A、QX3656-B、QX3658、  
QX3660、QX3699、QX3677、QX1520、QX1522、QX1524、QX1526、  
QX1528、QX1530、QX1536、QX1548、QX1554、QX1556、QX1558、  
QX1560、QX1562、QX1564、QX1566、QX6100、QX6102、QX6104、  
QX6106、QX6108、QX6110、QX6200、QX6202、QX6204、QX6206、  
QX6208、QX6210、QX6300、QX6302、QX6304、QX6306、QX6308、  
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QX6500、QX6502、QX6504、QX6506、QX6508、QX6510、QX6902、  
QX6904、QX6906、QX6908、QX6910、QX6912、QX6914、QX6802、  
QX6804、QX6806、QX6808、QX6810、QX6812、QX6814、QX6702、  
QX6704、QX6706、QX6708、QX6710、QX6712、QX6714、QX2824、

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QX2830、QX2836、QX2810-A、QX2877、QX2880、QX2810、  
QX2624、QX2630、QX2636、QX2666、QX2699、QX2610-A、QX2677、  
QX2680、QX2610、QX2424、QX2430、QX2436、QX2466、QX2410-A、  
QX2477、QX2480、QX2410

**Labeled Age Grading** : Not provided

**Requested Age Grading** : 3+

**Age Group Applied in Testing** : Over 3 years

**Sample Received Date** : January 18, 2018

**Testing Completed Date** : January 22, 2018

**Revise Date** : January 23, 2018

**Test Requested** : As requested by client, according to the following standards to perform the related testings.

- 1) EN71-1: 2014 – Physical and Mechanical Requirements
- 2) EN71-2: 2011+A1: 2014 – Flammability Requirements
- 3) Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys
- 4) EN71-3: 2013+A2: 2017 – Migration of certain elements

**Test Results** : Please refer to next page (s).

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**Executive Summary:**

	STANDARD	CONCLUSION
1)	EN71-1: 2014 – Physical and Mechanical Requirements	PASS
2)	EN71-2: 2011+A1: 2014 – Flammability Requirements	PASS
3)	Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC- Safety of toys	SEE RESULT
4)	EN71-3: 2013+A2: 2017 – Migration of certain elements	PASS

Signed for and on behalf of  
EMTEK (Dongguan) Co., Ltd.

Prepared by: Kira  
Kira Fu  
Report Engineer

Reviewed by: Carrie  
Carrie Zhang  
Supervisor

Approved by: Lainey  
Lainey Qin  
Manager

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## Test Results:

### 1) Mechanical and Physical Properties:

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 1: 2014

Clause	Description	Result
<b>4</b>	<b>General requirements</b>	
4.1	Material cleanliness (by visual assessment).....	<u>Pass</u>
4.2	Assembly.....	<u>N/A</u>
4.3	Flexible plastic sheeting.....	<u>N/A</u>
4.4	Toy Bags .....	<u>N/A</u>
4.5	Glass .....	<u>N/A</u>
4.6	Expanding Materials .....	<u>N/A</u>
4.7	Edges .....	<u>Pass</u>
4.8	Points and Metallic Wires .....	<u>Pass</u>
4.9	Protruding parts .....	<u>N/A</u>
4.10	Parts moving against each other:	
4.10.1	Folding and sliding mechanisms .....	<u>N/A</u>
4.10.2	Driving mechanisms .....	<u>N/A</u>
4.10.3	Hinges.....	<u>Pass</u>
4.10.4	Springs .....	<u>N/A</u>
4.11	Mouth-actuated toys and other toys intended to be put in the mouth.....	<u>N/A</u>
4.12	Balloons .....	<u>N/A</u>
4.13	Cords of toy kites and other flying toys .....	<u>N/A</u>
4.14	Enclosures:	
4.14.1	Toys which a child can enter .....	<u>N/A</u>
4.14.2	Masks and helmets .....	<u>N/A</u>
4.15	Toys intended to bear the mass of a child:	
4.15.1	Toys propelled by a child or by other means .....	<u>N/A</u>
4.15.2	Toy bicycles.....	<u>N/A</u>
4.15.3	Rocking horses and similar toys .....	<u>N/A</u>
4.15.4	Toys not propelled by a child .....	<u>N/A</u>
4.15.5	Toy scooters.....	<u>N/A</u>
4.16	Heavy immobile toys .....	<u>N/A</u>
4.17	Projectiles .....	<u>N/A</u>
4.18	Aquatic toys and inflatable toys.....	<u>N/A</u>
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps .....	<u>N/A</u>
4.20	Acoustics .....	<u>N/A</u>
4.21	Toys containing a non-electrical heat source .....	<u>N/A</u>
4.22	Small balls .....	<u>N/A</u>
4.23	Magnets.....	<u>N/A</u>
4.24	Yo-yo balls.....	<u>N/A</u>
4.25	Toys attached to food.....	<u>N/A</u>
<b>5</b>	<b>Toys intended for children under 36 months</b>	
5.1	General requirements.....	<u>N/A</u>
5.2	Soft-filled toys and soft-filled parts of a toy .....	<u>N/A</u>
5.3	Plastic sheeting .....	<u>N/A</u>
5.4	Cords, chains and electrical cables in toys .....	<u>N/A</u>
5.5	Liquid filled toys .....	<u>N/A</u>
5.6	Speed limitation of electrically-driven ride-on toys .....	<u>N/A</u>

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<u>Clause</u>	<u>Description</u>	<u>Result</u>
5.7	Glass and porcelain .....	<u>N/A</u>
5.8	Shape and size of certain toys .....	<u>N/A</u>
5.9	Toys comprising monofilament fibres .....	<u>N/A</u>
5.10	Small balls.....	<u>N/A</u>
5.11	Play figures.....	<u>N/A</u>
5.12	Hemispheric shaped toys.....	<u>N/A</u>
5.13	Suction cups.....	<u>N/A</u>
5.14	Straps intended to be worn fully or partially around the neck.....	<u>N/A</u>
<b>6</b>	<b>Packaging</b> .....	<u>Pass</u>
<b>7</b>	<b>Warnings, markings and instructions for use</b>	
7.1	General .....	<u>Pass</u>
7.2	Toys not intended for children under 36 months .....	<u>Pass</u>
7.3	Latex Balloons .....	<u>N/A</u>
7.4	Aquatic toys .....	<u>N/A</u>
7.5	Functional Toys .....	<u>N/A</u>
7.6	Hazardous sharp functional edges and points .....	<u>N/A</u>
7.7	Projectiles.....	<u>N/A</u>
7.8	Imitation protective masks and helmets .....	<u>N/A</u>
7.9	Toy kites .....	<u>N/A</u>
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys .....	<u>N/A</u>
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator .....	<u>N/A</u>
7.12	Liquid-filled teethingers .....	<u>N/A</u>
7.13	Percussion caps specifically designed for use in toys .....	<u>N/A</u>
7.14	Acoustics .....	<u>N/A</u>
7.15	Toy bicycles .....	<u>N/A</u>
7.16	Toys intended to bear the mass of a child .....	<u>N/A</u>
7.17	Toys comprising monofilament fibres .....	<u>N/A</u>
7.18	Toy scooters.....	<u>N/A</u>
7.19	Rocking horses and similar toys.....	<u>N/A</u>
7.20	Magnetic/electrical experimental sets.....	<u>N/A</u>
7.21	Toys with electrical cables exceeding 300mm in length.....	<u>N/A</u>
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months.....	<u>N/A</u>

N/A = Not Applicable

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## Test Results:

### 2) Flammability of Toys:

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2:2011+A1: 2014

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	General requirements .....	<u>Pass</u>
4.2	Toys to be worn on the head.....	<u>N/A</u>
4.3	Toy disguise costumes and toys intended to be worn by a child in play.....	<u>N/A</u>
4.4	Toys intended to be entered by a child.....	<u>N/A</u>
4.5	Soft-filled toys.....	<u>N/A</u>

N/A = Not Applicable

### 3) LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO THE DIRECTIVE 2009/48/EC-SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	--
CE mark	Present	Packaging
Importer's Name & Address	Absent	--
Manufacturer's Name & Address	Absent	--
Product ID	Absent	--

Note:

It is drawn to your attention that the name and address of manufacturer and importer in EEC country, toy's type, batch, serial, model number or other element allowing the identification and the advice statement for keeping relevant information together with CE-marking should appear as specified Directive 2009/48/EC.

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## Test Results:

4) Test Method: Samples were extracted in diluted hydrochloric acid in accordance with EN71-3: 2013+A2: 2017, the analysis was performed by ICP-MS.

Test Item	Result(mg/kg)					Reporting Limit (mg/kg)
	1	2	3	4	5	
Aluminum (Al)	33499	32453	43	10	5	2
Antimony (Sb)	ND	ND	ND	ND	ND	2
Arsenic (As)	ND	ND	ND	ND	ND	2
Barium (Ba)	3	7	ND	ND	ND	2
Boron (B)	ND	ND	ND	ND	ND	2
Cadmium (Cd)	ND	ND	ND	ND	ND	2
Chromium (Cr <sup>3+</sup> ) #	See remark 1	See remark 1	ND	See remark 1	See remark 1	0.2
Chromium (Cr <sup>6+</sup> ) #	See remark 1	See remark 1	ND	See remark 1	See remark 1	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	2
Copper (Cu)	ND	ND	ND	ND	ND	2
Lead (Pb)	ND	ND	ND	ND	ND	2
Manganese (Mn)	ND	ND	ND	ND	ND	2
Mercury (Hg)	ND	ND	ND	ND	ND	2
Nickel (Ni)	ND	ND	ND	ND	ND	2
Selenium (Se)	ND	ND	ND	ND	ND	2
Strontium (Sr)	ND	3	ND	ND	ND	2
Tin (Sn)	ND	ND	ND	ND	ND	2
Organic Tin*	ND	ND	ND	ND	ND	2
Zinc (Zn)	13	19	3	ND	ND	2

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## Test Results:

Test Item	Result(mg/kg)					Reporting Limit (mg/kg)
	6	7	8	9	10	
Aluminum (Al)	10	7	3	14	4	2
Antimony (Sb)	ND	ND	ND	ND	ND	2
Arsenic (As)	ND	ND	ND	ND	ND	2
Barium (Ba)	ND	ND	ND	ND	ND	2
Boron (B)	ND	ND	ND	ND	ND	2
Cadmium (Cd)	ND	ND	ND	ND	ND	2
Chromium (Cr <sup>3+</sup> ) #	ND	ND	ND	See remark 1	See remark 1	0.2
Chromium (Cr <sup>6+</sup> ) #	ND	ND	ND	See remark 1	See remark 1	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	2
Copper (Cu)	ND	ND	ND	26	ND	2
Lead (Pb)	ND	ND	ND	ND	ND	2
Manganese (Mn)	ND	ND	ND	ND	4	2
Mercury (Hg)	ND	ND	ND	ND	ND	2
Nickel (Ni)	ND	ND	ND	ND	ND	2
Selenium (Se)	ND	ND	ND	ND	ND	2
Strontium (Sr)	ND	ND	ND	ND	31	2
Tin (Sn)	ND	ND	ND	ND	ND	2
Organic Tin*	ND	ND	ND	ND	ND	2
Zinc (Zn)	ND	ND	ND	37	ND	2

Note: 1. mg/kg = part per million = ppm      ND = Not Detected (less than Reporting limit)

- # Soluble Chromium (III) and Soluble Chromium (VI) were reported as Soluble Total Chromium, further confirmation test will be required when Total Chromium is detected.
- \* Soluble Organic Tin was reported as Soluble Tin, further confirmation test will be required when Soluble Tin is detected.
- All the materials tested belong to scraped-off toy material by identifying.

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Remark 1: Chromium III and Chromium VI content

Test Method: Samples were extracted in diluted hydrochloric acid in accordance with EN 71-3:2013+A2:2017, analysis was performed by LC-ICP-MS.

Test Item	Result(mg/kg)						Reporting Limit (mg/kg)
	1	2	4	5	9	10	
Chromium III	1.3	53.8	0.2	0.4	4.8	0.2	0.2
Chromium VI	ND	ND	ND	ND	ND	ND	0.2

Note: mg/kg = part per million = ppm

ND = Not Detected (less than reporting limit)

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Requirement of migration of certain elements content according to EN71-3: 2013+A2: 2017:

Parameter	Dry, brittle, powder-like or pliable toy material (mg/kg)	Liquid or sticky toy material (mg/kg)	Scraped-off toy material (mg/kg)
Aluminum	5625	1406	70000
Antimony	45	11.3	560
Arsenic	3.8	0.9	47
Barium	1500	375	18750
Boron	1200	300	15000
Cadmium	1.3	0.3	17
Chromium (III)	37.5	9.4	460
Chromium Cr(VI)	0.02	0.005	0.2
Cobalt	10.5	2.6	130
Copper	622.5	156	7700
Lead	13.5	3.4	160
Manganese	1200	300	15000
Mercury	7.5	1.9	94
Nickel	75	18.8	930
Selenium	37.5	9.4	460
Strontium	4500	1125	56000
Tin	15000	3750	180000
Organic tin	0.9	0.2	12
Zinc	3750	938	46000

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## Test Item List:

Item No.	Description
1	Silver coating on plastic
2	Gold coating on plastic
3	Black hard plastic
4	Beige hard plastic
5	White hard plastic
6	Yellow hard plastic
7	Red hard plastic
8	Blue hard plastic
9	Green hard plastic
10	White sticker with black printing

Remark: 1. The tested sample(s) and part(s) were designated by client.

2. As specified by client, the results were quoted from report ED180118031C.

Declaration: Report ED180118032C was repealed and replaced by Report ED180118032CR001.

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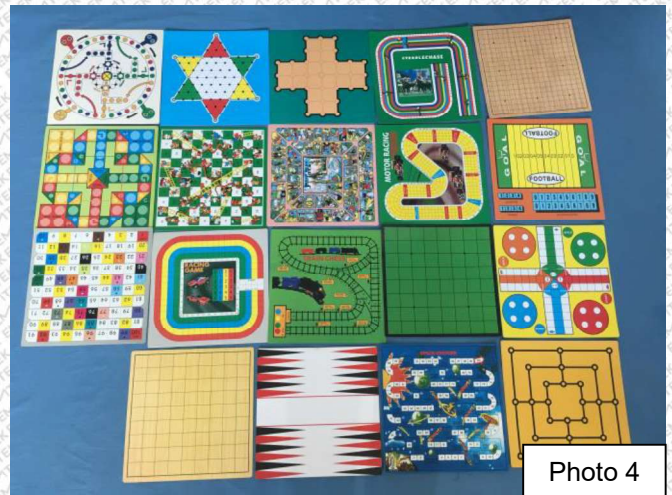
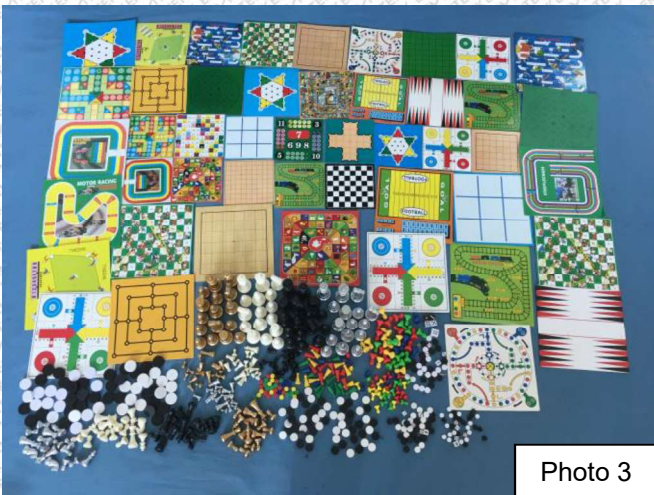
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## Photo



\* \* \* \* \* The End \* \* \* \* \*

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