

The following samples were submitted and identified by/on behalf of the client as:

Sample Description : JACKS
Detail of Sample : TRADITIONAL JACKS GAME SET INCLUDES 12 METAL PIECES, 2 PLASTIC BALLS, PRINTED BOX PACKED.
Sample Quantity : 5 PCS
Style / Item No. : ARID043
Buyer :
Supplier :
Manufacturer :
Country of Origin : CHINA
Country of Destination : USA
Labeled Age Grading : FOR AGES 8+
Requested Age Grading : 6+
Age Group Applied in Testing : 6+ YEARS
Sample Receiving Date : MAY 14, 2012
Further Information Date : MAY 24, 2012
Testing Period : MAY 14, 2012 TO MAY 24, 2012

TESTING REQUESTED : For compliance with the ASTM F963-11 Standard Consumer Safety Specification on Toy Safety

RESULTS : Details please refer to next page.

CONCLUSION : The submitted samples comply with the requested test requirements.

Signed for and on behalf of
SGS-CSTC Ltd.



Wallace Lui
Senior Technical Manager, Asia

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Result Summary:

ASTM F963 – 11

AS SPECIFIED IN ASTM F963-11 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clause Relevant to Sample.

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety Requirements</u>	
4.1	Material Quality (Visual Examination)	<u>Pass</u>
4.2	Flammability Test	<u>Pass (See Note 1)</u>
4.3	Toxicology	
4.3.5	Heavy Elements	
	4.3.5.1– Heavy Elements in Paint/Similar Surface Coating Materials	<u>N/A</u>
	4.3.5.2 – Heavy Metal in Substrate Materials	<u>Pass (See Note 2 & 3)</u>
4.7	Accessible Edges	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.34	Balls	<u>Pass</u>
5	<u>Safety Labeling Requirements</u>	
5.2	Age Grading Labeling	<u>Pass</u>
5.3	Safety Labeling Requirements	<u>Pass</u>
5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>Pass</u>
5.16	Promotional Materials	<u>Pass</u>
7	<u>Producer's Markings</u>	
7.1	Producer's Markings	<u>Pass</u>
8	<u>Test Methods</u>	
8.5	Normal Use Testing	<u>Pass</u>
8.7	Impact Test	<u>Pass</u>
8.8	Torque Test	<u>Pass</u>
8.9	Tension Test	<u>Pass</u>

N/A = Not Applicable

Note 1 :

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

Plastic ball

Burning Rate (inch/sec)

DNI

Requirement : A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

DNI = Did Not Ignite

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Note 2:
American Society for Testing and Materials -ASTM F 963-11 - total Lead in Substrate Materials

Test Method : With reference to CPSC Test Method: CPSC-CH-E1002-08.1. Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Total Lead (Pb)	100	mg/kg	20	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>
Total Lead (Pb)	100	mg/kg	20	ND	ND

American Society for Testing and Materials –ASTM F 963-11 – Soluble Cadmium in Metallic Small Part

Test Method : With reference to CPSC Test Method: CPSC-CH-E1004-11. Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	<u>003</u>
Soluble Cadmium (Cd)	200	µg/part	10	ND	ND

Notes :

(1) µg /part=ug/component = microgram per component= ug/g×component weight(g)

Note 3 :
American Society for Testing and Materials –ASTM F 963-11 – soluble heavy metal in Substrate Materials/paint and similar surface-coating materials

Test Method : Soluble Heavy Metal contents (Clause 4.3.5) - Sample was extracted by dilute hydrochloric acid in accordance with ASTM F 963-11(Claue 8.3), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Lead (Pb)	90	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	60	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	25	mg/kg	2.5	ND	ND	ND
Soluble Barium (Ba)	1000	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	75	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	60	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	60	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	500	mg/kg	10	ND	ND	ND

Notes :

(1) Results shown are of the adjusted analytical results

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Test Report

No.: SHTY120500006528

Date: May 24, 2012

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Test Part Description :

Specimen No.	SGS Sample ID	Description
1	SHA12-074809.001	Red soft plastic(ball)
2	SHA12-074809.002	Golden metal(jacks)
3	SHA12-074809.003	Silvery metal(jacks)

Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

N.B. : - Only applicable clauses were shown.

*** End of Report ***

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