

Test Report

Report No.: SHT09011400113

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Client : NANTONG GOLDEN PHOENIX TOY MANUFACTURING CO.LTD.
Address : NO. 869 NANYUAN MIDDLE ROAD QIDONG CITY JIANGSU CHINA

Report on the submitted sample said to be:

Sample Name : Special Forces
Item No. : 20084
Quantity of Sample : 3 SETS
Exported to : U.S.A
Labelled Age Grading : Over three
Age Group Applied in Testing : Over 3 years
Sample Received Date : Jan.14, 2009
1st Resubmitted Sample Date : Jan.20, 2009
2nd Resubmitted Sample Date : Feb.13, 2009
Sample Tested Date : Jan.14, 2009 to Feb.16, 2009

TEST REQUEST

- 1)ASTM F963-07^{e1} Standard Consumer Safety Specification for Toy Safety
- 2)US Consumer Products Safety Improvement Act 2008 (CPSIA)(H.R. 4040)
- Lead Content Test

CONCLUSION

PASS

PASS

Test Results: Please refer to next page(s)

Inspected by: Maggie

Engineer

Approved by: Victor wang

Victor wang
Lab Manager

Approved date: 2009-02-16



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1) ASTM F963 -07^{e1}

AS SPECIFIED IN ASTM F963-07^{e1} STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.	Safety Requirements	
4.1	Material Quality **.....	Pass
4.2	Flammability Test.....	N/A (See Note 1)
4.3	Toxicology	
4.3.5	Paint & Similar Surface-coating Material.....	Pass (See Note 2)
4.6	Small Objects.....	N/A
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
4.18	Holes, Clearance & Accessibility of Mechanisms.....	Pass
5.	Safety Labeling Requirements	
5.2	Age Grading Labeling.....	Pass
7.	Producers Markings	
7.1	Producers Markings.....	Pass
8.	Test Method	
8.5	Normal Use Testing.....	Pass
8.7	Impact Test	Pass
8.8	Torque Test.....	Pass
8.9	Tension Test.....	Pass

**Visual Examination

N/A = Not Applicable

Note 1:

Flammability Test (Clause 4.2)

Flammability Test on Textile MaterialsN/A

The samples are exempt from 16CFR 1610.1(d)(1):plain surface fabric with weight>2.6oz/sq.yd.

N/A = Not Applicable

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Note 2 :

ASTM F963-07^{e1} CLAUSE 4.3.5 - PAINT & SIMILAR SURFACE-COATING MATERIAL

Heavy Metals Analysis : Total Lead (Clause 4.3.5.1)

Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Element	Result(mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Total Lead	<5	<5	<5	600

Tested Components:

- (1) Black coating(label)
- (2) White coating(brand)
- (3) Green coating(brand)

Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

Acid Extraction Method was Used in accord with ASTM F963-07^{e1} (Clause 8.3) and Toxic Elements Content were Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Elements	Result (mg/kg)	Limit (mg/kg)
	Green coating(brand) (sample weight:18.6mg)	
Soluble Antimony (Sb)	<5	60
Soluble Arsenic (As)	<2.5	25
Soluble Barium (Ba)	<5	1000
Soluble Cadmium (Cd)	<5	75
Soluble Chromium (Cr)	<2.5	60
Soluble Lead (Pb)	<5	90
Soluble Mercury (Hg)	<2.5	60
Soluble Selenium (Se)	<5	500

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Remark:

- < = Less than
- mg/kg = Milligram per kilogram based on dry weight of sample
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor
- Where the test portion has a mass of between 10mg and 100mg, the quantity of the appropriate elements shall be calculated as if 100mg of the test portion had been used.
- As received, the test portion of black coating(label) and white coating(brand) are less than 10mg, therefore such components were not tested for soluble elements, as specified in ASTM F963-07^{e1} Clause 8.3.3.1 (2)
- As per client request, Results of tested components (1) is copied from CTI test report SZT09010800583.

Note:

- Only applicable clauses were shown.

2) LEAD CONTENT TEST

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA)(H.R. 4040) and Title 16 Part 1303 Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A, Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

1. Lead content in surface coating(s) and similar materials

<u>Element</u>	<u>Result (ppm)</u>			<u>Required Limit^{#1}</u>
	(1)	(2)	(3)	(ppm)
Total Lead	<5	<5	<5	600

2. Lead content in other materials

<u>Element</u>	<u>Result (ppm)</u>							<u>Required Limit^{#2}</u>
	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(ppm)
Total Lead	<5	<5	29	<5	<5	<5	<5	600

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Element	Result (ppm)							Required Limit ^{#2}
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(ppm)
Total Lead	<5	<5	<5	<5	<5	<5	<5	600

Tested Components:

- | | |
|------------------------------|---------------------------------------------|
| (1) Green coating(brand) | (10) Green velcro |
| (2) White coating(brand) | (11) Black cord(trousers) |
| (3) Black coating(label) | (12) Dk. green thread |
| (4) White cord(bag) | (13) White non-woven fabric(hat) |
| (5) White fabric | (14) Black ribbon |
| (6) Silver metal(circle) | (15) White fabric(label) |
| (7) White woven | (16) Brown fabric with multi-color printing |
| (8) Black plastics(buckle) | (17) White thread |
| (9) Lt. yellow thread(woven) | |

Remark:

- < = Less than
- ppm= parts per million based on dry weight of sample
- ^{#1} = The total Lead limit for surface coatings and similar materials will be **90ppm** (Effective Date : August 14, 2009)
- ^{#2} = The total Lead limit for other materials will be **300ppm** (Effective Date : August 14, 2009)
- As per client request, Results of tested components from (12) ~ (17) are copied from CTI test report SZT09011501388, SZT09011501398, SZT09011301040, SZT09011301058.

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Photo of the sample



*** End of report ***

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