

# Test Report

Report No.: SHT09020700183

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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 Description : Silver Astronaut Outfit  
Item/Lot No. : 38510  
Country of Origin : China  
Exported to : U.S.A  
Labelled Age Grading : Over three  
Age Group Applied in Testing : Over 3 years  
Sample Received Date : Feb.09, 2009  
Further Information Date : Feb.21, 2009  
Sample Tested Date : Feb.09, 2009 to Feb.17, 2009

**TEST REQUEST**

- 1) ASTM F963-07<sup>e1</sup> Standard Consumer Safety Specification for Toy Safety
- 2) US Consumer Products Safety Improvement Act 2008 (CPSIA)(H.R. 4040)
- Lead in surface-coatings and similar materials of children's product
- Lead in substrate materials of children's product

**CONCLUSION**

PASS

PASS

PASS

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

Inspected by: Maggie , Approved by: Jacky Chan , Approved date: 2009-02-23  
General Manager



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**1) ASTM F963 – 07<sup>e1</sup>**

AS SPECIFIED IN ASTM F963-07<sup>e1</sup> 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	Pass (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
4.28	Stuffed & Beanbag-Type Toy	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 Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>	<u>Limit (inch/sec)</u>
Silver Astronaut Outfit	0.1	0.1

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Note 2 :

**ASTM F963-07<sup>e1</sup> 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)	(4)	(5)	(6)	
Total Lead	< 5	< 5	< 5	< 5	20	< 5	600

Tested Components:

- |                              |                             |
|------------------------------|-----------------------------|
| (1) Black coating(label)     | (4) Red coating (clothing)  |
| (2) White coating (clothing) | (5) White coating(zipper)   |
| (3) Blue coating (clothing)  | (6) Black coating(clothing) |

Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

Acid Extraction Method was Used in accord with ASTM F963-07<sup>e1</sup> (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)
	(1)	(2)	(3)	(4)	
Soluble Antimony (Sb)	<5	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	<2.5	25
Soluble Barium (Ba)	136	19	21	197	1000
Soluble Cadmium (Cd)	<5	<5	<5	<5	75
Soluble Chromium (Cr)	<2.5	<2.5	<2.5	<2.5	60
Soluble Lead (Pb)	<5	<5	<5	<5	90
Soluble Mercury (Hg)	<2.5	<2.5	<2.5	<2.5	60
Soluble Selenium (Se)	<5	<5	<5	<5	500

Tested Components:

- (1) Blue coating (clothing) (Sample weight=13.4mg)
- (2) Black coating(clothing) (Sample weight=11.9mg)
- (3) White coating(zipper) (Sample weight=11.6mg)
- (4) Red coating (clothing) (Sample weight=10.3mg)

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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 white coating (clothing) and black coating(label) are less than 10mg, therefore such components were not tested for soluble elements, as specified in ASTM F963-07<sup>e1</sup> Clause 8.3.3.1 (2)

**Note:**

- Only applicable clauses were shown.

**2) US CONSUMER PRODUCTS SAFETY IMPROVEMENT ACT 2008 (CPSIA)(H.R. 4040)**

**▼ LEAD IN SURFACE-COATING AND SIMILAR MATERIALS OF CHILDREN'S PRODUCT**

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).

<u>Element</u>	<u>Result (ppm)</u>						<u>Required Limit<sup>#1</sup></u> (ppm)
	(1)	(2)	(3)	(4)	(5)	(6)	
Total Lead	<5	<5	<5	<5	<5	20	600

**Tested Components:**

- (1) Black coating(label)
- (2) White coating (clothing)
- (3) Blue coating (clothing)
- (4) Red coating (clothing)
- (5) Black coating(clothing)
- (6) White coating(zipper)

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**Remark:**

- < = Less than
- ppm= parts per million based on dry weight of sample
- <sup>#1</sup> = The total Lead limit for surface coatings and similar materials will be **90ppm** (Effective Date : August 14, 2009)
- As per client request, results of tested component (1) is copied from CTI test report SZT09010800583.

**▼ LEAD IN SUBSTRATE MATERIALS OF CHILDREN'S PRODUCT**

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA)(H.R. 4040), Acid Digestion Method was Used and Total Lead Content was Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Element	Result (ppm)						Required Limit <sup>#2</sup> (ppm)
	(1)	(2)	(3)	(4)	(5)	(6)	
Total Lead	13	<5	<5	<5	<5	<5	600

Element	Result (ppm)					Required Limit <sup>#2</sup> (ppm)
	(7)	(8)	(9)	(10)	(11)	
Total Lead	<5	<5	59	<5	63	600

**Tested Components:**

- (1) Silver leather(cap)
- (2) Grey thread(cap)
- (3) White fabric(cap)
- (4) Black woven(belt)
- (5) Black thread(cloth)
- (6) White fabric(zipper)
- (7) White fabric(label)
- (8) White plastics(zipper)
- (9) Silver metal(zipper)
- (10) Transparent plastics(cap)
- (11) Black leather(clothing)

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Remark:

- $\leq$  Less than
- ppm= parts per million based on dry weight of sample
- #2 = The total Lead limit for substrate materials will be **300ppm** (Effective Date : August 14, 2009)
- As per client request, results of tested component (7) is copied from CTI test report SZT09010800583.

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## Photo of the sample



\*\*\* End of report \*\*\*

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