

Test Report

Report No.: SZT09051909726

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Client : CSP INC

Address : PO BOX 1157 GLENDALE AZ.85311

Report on the submitted sample said to be:

Sample Description : Cell Phone Calculator
Item No. : K08-912
Quantity of Sample : 4 PCS
Buyer : Kids' Korner
Country of Origin : Others
Exported to : U.S.A
Client Specified Age Grading : Over 3 years
Labelled Age Grading : Over 3 years
Age Group Applied in Testing : Over 3 years
Sample Received Date : May. 19, 2009
Further Information Date : May. 31, 2009
Sample Tested Date : May. 19, 2009 to Jun. 02, 2009

TEST REQUEST

- 1) ASTM F963-08 Standard Consumer Safety Specification for Toy Safety
- 2) US Consumer Products Safety Improvement Act 2008 (CPSIA)
 - Lead in substrate materials of children's product
 - Phthalates in children's toys and child care articles

CONCLUSION

PASS

PASS

PASS^{#01}

Test Results: Please refer to next page(s)

Inspected by: Maggie

Engineer

Approved by: Victor wang

Victor wang
Lab Manager

Approved date: 2009-06-02



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1) ASTM F963 – 08

AS SPECIFIED IN ASTM F963-08 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.	Safety Requirements	
4.1	Material Quality (Visual Examination).....	Pass
4.2	Flammability Test.....	Pass (See Note 1)
4.3	Toxicology	
4.3.5	Paint & Similar Surface-coating Material..... #02=CTI conducted toxic elements on the components which were identified by the client, and the testing results can meet the standard requirement.	Pass ^{#02} (See Note 2)
4.6	Small Objects.....	N/A
4.7	Accessible Edges.....	Pass
4.9	Accessible Points.....	Pass
4.11	Nails & Fasteners.....	Pass
4.18	Holes, Clearance & Accessibility of Mechanisms.....	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
8.10	Compression Test.....	Pass

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>
Cell Phone Calculator	0.04	0.1

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Note 2 :

ASTM F963-08 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).

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

Tested Components:

- (1) Bright silver coating
- (2) Silver coating

Heavy Metals Analysis : Soluble Heavy Metal (Clause 4.3.5.2)

Acid Extraction Method was Used in accord with ASTM F963-08 (Clause 8.3) and Toxic Elements Content were Determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

<u>Elements</u>	<u>Result (mg/kg)</u>		<u>Limit</u> (mg/kg)
	(1)	(2)	
Soluble Antimony (Sb)	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	25
Soluble Barium (Ba)	<5	<5	1000
Soluble Cadmium (Cd)	<5	<5	75
Soluble Chromium (Cr)	<2.5	<2.5	60
Soluble Lead (Pb)	<5	<5	90
Soluble Mercury (Hg)	<2.5	<2.5	60
Soluble Selenium (Se)	<5	<5	500

Tested Components:

- (1) Bright silver coating (Sample weight=12.0mg)
- (2) Silver coating (Sample weight=34.4mg)

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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.

Note:

- Only applicable clauses were shown.

2) US CONSUMER PRODUCTS SAFETY IMPROVEMENT ACT 2008 (CPSIA)

▼ LEAD IN SUBSTRATE MATERIALS OF CHILDREN'S PRODUCT

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA), 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 #1</u> (ppm)
	(1)	(2)	(3)	
Total Lead	<5	<5	<5	600

Tested Components:

- (1) Black plastic
- (2) Transparent plastic film
- (3) Silver electro-plated metal(screw)

Remark:

- $< =$ Less than
- ppm= parts per million based on dry weight of sample
- #1 = The total Lead limit for substrate materials will be **300ppm** (Effective Date : August 14, 2009)

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▼ PHTHALATES IN CHILDREN'S TOY AND CHILD CARE ARTICLES

As Specified in Consumer Products Safety Improvement Act 2008 (CPSIA) , Solvent extraction Method was Used and phthalates were Determined by Gas Chromatograph with Mass Spectrometer (GC-MS).

Material(s) in toys and childcare articles		
Tested Item	Result (%)	Limit#
	(1)/(2)	
Di-2-ethylhexyl Phthalate (DEHP)	<0.003	0.1
Dibutyl Phthalate (DBP)	<0.003	0.1
Benzybutyl Phthalate (BBP)	<0.003	0.1

Material(s) in toys that can be placed in mouth and childcare articles		
Tested Item	Result (%)	Limit#
	(1)/(2)	
Diisononyl Phthalate (DINP)	<0.005	0.1
Di-n-octyl Phthalate (DNOP)	<0.003	0.1
Diisodecyl Phthalate (DIDP)	<0.005	0.1

Tested Components:

- (1) Black plastic
- (2) Transparent plastic with adhesive(screen)

Remark:

- < = Less than
- % = Percentage based on dry weight of sample
- # = The limit for the test result is 1/n of the value column (where “ n” is the number of mixed samples)
- #01 : CTI conducted phthalates on the components which were identified by the client, and the testing results can meet CPSIA requirement.

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Photo of the sample



*** End of report ***

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