



佛山市向晨贸易有限公司  
FOSHAN XIANGCHEN TRADING CO., LTD.

Technical Report: (8814)184-0007(R1)

Date Received: Jul 3, 2014

Jul 11, 2014

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佛山市向晨贸易有限公司  
FOSHAN XIANGCHEN TRADING CO., LTD.  
中国广东省佛山市南海区桂城街道夏西东便围工业区（紫  
金城6号楼）三层312室  
NO. 312, ZIJINCHENG BLOCK 6, DONGBIANWEI  
INDUSTRIAL ESTATE, XIAXI, GUICHENG, NANHAI,  
FOSHAN, GUANGDONG, CHINA

Sample Description:	TOYSCLAY BRAND KIDS MODELING COMPOUND / TOYSCLAY 牌儿童玩耍用泥胶		
Vendor:	FOSHAN XIANGCHEN TRADING CO., LTD./佛山市向晨贸易有限公司	Sample Size:	N/A
Manufacturer:	FOSHAN XIANGCHEN TRADING CO., LTD./佛山市向晨贸易有限公司	Style No(s):	SEE ATTACHMENT
Buyer:	N/A	SKN/SKU No.:	N/A
Labeled Age Grade:	N/A	PO No.:	N/A
Appropriate Age Grade:	N/A	Ref #:	N/A
Client Specified Age Grade:	3 岁以上	Country of Origin:	CHINA/中国
Tested Age Grade:	N/A	Assortment No.:	N/A
UPC Code:	N/A	Country Of Destination	EU/欧盟 US/美国
Test Starting Date:	JUL 3, 2014	Test Finished Date:	JUL 9, 2014

**EXECUTIVE SUMMARY:**

The tested component sample(s) MEETS the following requirement(s):

**(#)- The total lead content in substrate requirements of ASTM F963-11, "Standard consumer safety specification for toy safety", Section 4.3.5.2(a).**

To be continued

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

Harvey Xue

Assistant Manager, Analytical & Toys Lab

RT/BH

**REMARK**

If there are questions or concerns on this report, please contact the following persons:

Report Enquiry: (86) 0769 85935656 Ext. 8282 CPSAnalytical.DG@cn.bureauveritas.com

Business Contact: (86) 0769 85893595

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## **EXECUTIVE SUMMARY:**

The tested component sample(s) MEETS the following requirement(s):

**(#)- The soluble heavy metals content in substrate requirements of ASTM F963-11, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).**

- The migration of certain tested elements in Category I - Dry, brittle, powder-like or pliable toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013.

Note: Tests with (#) accredited under CNAS testing standard.

Note: At the request of client, heavy metal test(s) was conducted on the certain component(s) of the submitted sample(s) / submitted component(s).

## **ATTACHMENT**

Style No.:

2120, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2301, 2302, 2303, 2304, 2305, 2306, 3101, 3102, 3103, 3104, 3105, 5501, 5502, 5503, 5504, 5505, 5506, 5507, 5508, 5509, 6601, 6602, 6603, 6604, 6605, 6606, 6607, 8801, 8802, 8803, 8804, 8805



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**Tested Component(s) Description List:**

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	White clay	-	-

**RESULTS:**

**Total Lead Content in Substrate – ASTM International Standard ASTM F963-11, Section 4.3.5.2(2)(a)**

Test Method : ASTM International Standard ASTM F963-11, Section 8.3.1 and Annex A7.

Maximum Allowable Limit :	100 mg/kg
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Test Item(s)	Result	Unit	Conclusion
	Total Lead (Pb)		
I001	ND	mg/kg	PASS

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (mg/kg) : 10



## RESULTS:

### Soluble Heavy Metals Content in Substrate – ASTM International Standard ASTM F963-11, Section 4.3.5.2(2)(b)

Test Method : ASTM International Standard ASTM F963-11, Section 8.3.5 (Excluding 8.3.5.5(3))

Type I: Substrate other than modeling clay
Type II: Modeling clay

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500
Max. Limit Type II (mg/kg)	25	250	50	25	25	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Test Item(s)	Result (mg/kg)								(g)	
I001	ND	ND	ND	ND	ND	ND	ND	ND	-	PASS

Note / key:

As = Arsenic      Ba = Barium      Cd = Cadmium      Cr = Chromium  
Hg = Mercury      Pb = Lead      Sb = Antimony      Se = Selenium  
ND = Not detected      g = gram(s)      % = percent  
mg/kg = milligram(s) per kilogram (ppm=parts per million)  
Detection Limit (mg/kg) :  
For Type I – As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50  
For Type II – Each (As, Cr & Hg) : 2.5; Ba : 25; Cd : 5.0; Sb : 6.0; Pb : 9.0; Se : 50

Remark:

- Textiles (natural or synthetic) are exempted from lead content requirement according to clarification of Toy Industry Association for ASTM F963-11. The lead content analysis result of corresponding material herein is for client's reference only.



## RESULTS:

### Migration of Certain Elements – European Standard EN 71 Part 3: 2013

Test Method: European Standard EN 71 Part 3: 2013, Annex E.

Class: Category I - Dry, brittle, powder-like or pliable toy material

Analyte	Requirement (mg/kg)	Result (mg/kg)			
		Test Item(s)			
	Category I	I001	-	-	-
Aluminium (Al)	5625	6	-	-	-
Arsenic (As)	3.8	LT 0.15	-	-	-
Boron (B)	1200	LT 2	-	-	-
Barium (Ba)	1500	LT 2	-	-	-
Cadmium (Cd)	1.3	LT 0.15	-	-	-
Cobalt (Co)	10.5	LT 2	-	-	-
Chromium III (Cr III)	37.5	0.12	-	-	-
Chromium VI (Cr VI)	0.02	LT 0.0020 <sup>#</sup>	-	-	-
Copper (Cu)	622.5	3	-	-	-
Mercury (Hg)	7.5	LT 0.15	-	-	-
Manganese (Mn)	1200	3	-	-	-
Nickel (Ni)	75	LT 2	-	-	-
Lead (Pb)	13.5	LT 0.5	-	-	-
Antimony (Sb)	45	LT 2	-	-	-
Selenium (Se)	37.5	LT 2	-	-	-
Tin (Sn)	15000	0.064	-	-	-
Organic tin	0.9	0.16	-	-	-
Strontium (Sr)	4500	11	-	-	-
Zinc (Zn)	3750	6	-	-	-
Mass of trace amount (gram)		-	-	-	-
Conclusion		PASS	-	-	-



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## **RESULTS:**

mg/kg = milligrams per kilogram (ppm=parts per million)      LT = Less Than

\* = Average of duplicate analysis

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

# = Verified results (see note)

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.
- EN71 part 3:2013 migration of certain elements is not accredited under CNAS testing standard.
- This report is to Supersede BV(Dong guan) report No. (8814)184-0007 dated on Jul 9, 2014.

Note:

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: In house Ion-chromatography analysis
- Organic tin: EN71 part 3:2013, Annex G by Gas Chromatography – Mass Spectroscopy analysis.

**RESULTS:**



END OF REPORT