

## TEST REPORT

Number: BKKH15001016

Applicant: NARA FACTORY CO.,LTD.  
426 ANAMAI NGAMCHAROEN ROAD, THAKHAM,  
BANGKHOONTIEN, BANGKOK 10150 THAILAND  
ATTN: K.SUPINYA

Date: Feb 02, 2015

LC NO. : 550FLC002989/15  
DATE : 160319

### Sample Submitted:

Quantity of sample:	Four (4) bags
Sample description:	Brown/Cream/Gray/White clay
Date sample received:	January 27, 2015

### Client Information:

Item Name: 4 COLORS OF AIR HARDENING CLAY



### Tests conducted:

As requested by the applicant, for details please refer to attached pages.

To be continued

Authorized by :  
For Intertek Testing Services (Thailand)



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Ladtaka Wongwiboonporn  
Laboratory Manager  
Hardlines Department

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### Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EN71-1 : 2011 + A3 : 2014 Mechanical and physical properties excluding labelling requirement of clause 6 and 7	Pass*
	EN71-2 : 2011 + A1 : 2014 Flammability test	Pass
	EN71 Part 3 : 2013 + A1 : 2014 Migration of certain elements	See test conducted

Remark: \* = Please draw your attention on clause 7 in test report.

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Test conducted:

- 1 Mechanical and Physical Test  
As per European Standard on Safety of toys EN71-1 : 2011 + A3 : 2014.

Applicant's specified age group for testing : For age over 8 years.

Clause	Requirements	Results
<b>4</b>	<b>General requirements</b>	
4.1	Material cleanliness	Pass
<b>7</b>	<b>Warnings, markings and instructions for use</b>	See remark
7.1	General	#

Note : The above clauses appropriate to this item. Those clauses not referred to were considered not applicable.

# = No packaging was submitted for testing. Hence, clause 7.1 General requirement for Warnings, markings and instructions for use was not assessed.

Remark : Below are additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking.

After checking, it was found that:

- All the above markings were not found on the toy.

Testing period: January 27, 2015 to January 29, 2015

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## TEST REPORT

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Test conducted:

- 2 Flammability Test  
As per European Standard on Safety of Toys EN71-2:2011 + A1 : 2014

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark: P = Pass NA = Not applicable

Testing period: January 27, 2015 to January 29, 2015

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## TEST REPORT

Number: BKKH15001016

Test conducted:

### 3 19 Toxic elements migration test

#### (A) Test result

With reference to BS EN 71-3: 2013 +A1 : 2014.Determind by ICP-MS and GC-MS.

Category (I): Dry, Brittle, Powder-like or pliable toy material

<u>Element (Soluble)</u>	<u>Result</u> <u>(mg/kg)</u>				<u>LOD</u> <u>(mg/kg)</u>	<u>LOQ</u> <u>(mg/kg)</u>	<u>Limit</u> <u>(mg/kg)</u>
	(1)	(2)	(3)	(4)			
Aluminium (Al)	<5	<5	10	<5	1	5	5625
Antimony (Sb)	ND	ND	ND	ND	1	5	45
Arsenic (As)	2.96	2.98	2.85	1.73	0.02	0.1	3.8
Barium (Ba)	ND	ND	<5	ND	1	5	1500
Boron (B)	ND	ND	ND	ND	1	5	1200
Cadmium (Cd)	0.1	<0.1	<0.1	<0.1	0.02	0.1	1.3
Chromium (Cr) <sup>Δ</sup>	0.301+	0.253+	0.277+	0.231+	0.001	0.005	-
Chromium (III) (Cr III)	NC	NC	NC	NC	-	-	37.5
Chromium (VI) (Cr VI)	NC	NC	NC	NC	-	-	0.02
Cobalt (Co)	ND	ND	ND	ND	0.2	1	10.5
Copper (Cu)	ND	ND	ND	ND	1	5	622.5
Lead (Pb)	1.67	1.18	2.60	ND	0.2	1	13.5
Manganese (Mn)	<5	<5	<5	<5	1	5	1200
Mercury (Hg)	ND	ND	ND	ND	0.2	1	7.5
Nickel (Ni)	ND	ND	ND	ND	1	5	75
Selenium (Se)	ND	ND	ND	ND	1	5	37.5
Strontium (Sr)	62	56	55	50	1	5	4500
Tin (Sn) <sup>ΔΔ</sup>	ND	ND	ND	ND	0.2	1	15000
Organic TIN	NC	NC	NC	NC	0.1	0.3	0.9
Zinc (Zn)	<5	<5	<5	<5	1	5	3750

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Test conducted:

Remark: mg/kg = Milligram per kilogram = ppm  
NC = Not conducted  
+ = Exceeded the Cr (VI) limit, Confirmation test would be suggested.  
Δ = If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium (III) and Chromium (VI).  
ΔΔ = If the migration of total Tin is below the maximum limit for Organic Tin, it can be inferred that the material complies with the requirements for Organic Tin.  
- Organic tin test result was expressed as tributyl tin.  
- As per EC decision 2013/492/EU of 7 October 2013 and in accordance with Court's Order of 15 May 2013 in case T-198/12R, the European Commission authorizes that the national provisions notified by the Federal Republic of Germany concerning limit values for Antimony(Sb)(60mg/kg), Arsenic (As)(25mg/kg), Mercury (Hg)(60mg/kg), Barium (Ba)(1000mg/kg) and Lead (Pb)(90mg/kg) in toys be maintained beyond 20 July 2013.

Tested components

- (1) = White clay
- (2) = Gray clay
- (3) = Cream clay
- (4) = Brown clay

Testing period: January 27, 2015 to January 30, 2015

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Test conducted:

(B) Categories of various toy materials

Category I: dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. the material can be ingested. contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or Sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone , leather and other materials).

Comment:

When tested as specified, the Cr content of tested sample exceeded the Cr(VI) limit of the European Council Directive 2009/48/EC and amendment 2012/7/EU on the Safety of Toys.

\*\*\*\*\* E N D \*\*\*\*\*/NRS/NK/KS

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