



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T51810200683TY

Date: FEB 13, 2018

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HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD /
HAPE INTERNATIONAL (NINGBO) LTD
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY,
BEILUN, NINGBO, CHINA PC:315800

The following samples were submitted and identified by/on behalf of the client as:

80 PIECE CITY BLOCK SET;80 PCS WOODEN BLOCKS;CITY BUILDING BLOCKS

Item No.	:	E8304, E8304A, E8304AE;E8022, 8022A;E8029, 8029A, 8029AE
Country of Origin	:	CHINA
Country of Destination	:	GLOBEL
Labeled Age Grading	:	12M+
Requested Age Grading	:	12M+
Age Group Assessed As Per Age Guideline	:	OVER 12 MONTHS
Age Group Applied in Testing	:	OVER 12 MONTHS
Sample Receiving Date	:	FEB 06, 2018
Testing Period	:	FEB 06, 2018 TO FEB 13, 2018



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Shenzhen Branch Testing Center Hardlines

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Test Requested		Conclusion
1.	For compliance with the European standard on Safety of toys:-	--
	EN 71-1:2014 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	EN 71-2:2011+A1:2014 – Safety of toys – Part 2: Flammability	PASS
	Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys	SEE RESULT
	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738 – EN 71-3:2013 + A2:2017 – Migration of certain elements (All conclusive testing)	PASS

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center

Huang Yao, Lucy
Section Head
CNAS Approved Signatories

Ouyang Qin, Cansy
Section Manager
CNAS Approved Signatories



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Results:

EUROPEAN STANDARD ON SAFETY OF TOYS

EN 71-1:2014 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1:2014 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
5	Toys intended for children under 36 months	
5.1	General requirements:	
5.1a	Small part requirement on toys & removable Components (Test method 8.2)	<u>Pass</u>
5.1b	Torque test (Test method 8.3)	<u>Pass</u>
5.1b	Tension test (Test method 8.4)	<u>Pass</u>
5.1b	Drop test (Test method 8.5)	<u>Pass</u>
5.1b	Impact test (Test method 8.7)	<u>Pass</u>
5.1b	Sharp edge (Test method 8.11)	<u>Pass</u>
5.1b	Sharp point (Test method 8.12)	<u>Pass</u>
6	Packaging	<u>Pass</u>

According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.



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EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

Clause	Description	Result
4.1	General requirements	Pass

Type of gas: Butane gas used in the test burner

LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	--
CE mark	Present	Toy / Packaging
Importer's Name & Address	Present	Toy / Packaging
Manufacturer's Name & Address	Present	Toy / Packaging
Product ID	Present	Toy / Packaging

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soaked washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.



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Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738 –
EN 71-3:2013 + A2:2017 – Migration of certain elements
Category III: Scraped-off toy material

Method: With reference to EN 71-3:2013 + A2:2017. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV/VIS and organic tin was analyzed by GC-MS.

Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	1	2	3	--	--
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	4	5	6	--	--
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	7	8	9	--	--
Mass of trace amount (mg)	54.8	--	40.1	--	--
Soluble Aluminium (Al) (mg/kg)	ND	354	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	75	71	50	46000



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	10	11	--	--
Mass of trace amount (mg)	15.1	15.2	--	--
Soluble Aluminium (Al) (mg/kg)	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	98	161	50	46000



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Specimen No.	12	13	14	--	--
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	140	411	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Specimen No.	15	16	17	--	--
Mass of trace amount (mg)	--	10.2	--	--	--
Soluble Aluminium (Al) (mg/kg)	314	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	72	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	10.8	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	18	19	20	--	--
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	57	129	164	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	ND	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	66	51	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	21	22	23	--	--
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	140	83	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	ND	1.14	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	1.14	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	24	25	26	--	--
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	846	ND	ND	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	0.71	0.51	ND	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	102	438	ND	50	46000



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Test Item(s)	Result(s)			MDL	Permissible Limit
Specimen No.	27	28	29	--	--
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	557	368	161	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	ND	ND	57	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	0.84	0.70	1.20	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1.20	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	261	ND	101	50	46000



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Test Item(s)	Result(s)		MDL	Permissible Limit
Specimen No.	30	31	--	--
Mass of trace amount (mg)	--	--	--	--
Soluble Aluminium (Al) (mg/kg)	ND	90	50	70000
Soluble Antimony (Sb) (mg/kg)	ND	ND	10	560
Soluble Arsenic (As) (mg/kg)	ND	ND	10	47
Soluble Barium (Ba) (mg/kg)	65	ND	50	18750
Soluble Boron (B) (mg/kg)	ND	ND	50	15000
Soluble Cadmium (Cd) (mg/kg)	ND	ND	5	17
Soluble Chromium (Cr) (mg/kg)	0.99	0.65	0.15	--
Soluble Chromium (III) (Cr (III)) (mg/kg)	ND	ND	1	460
Soluble Chromium (VI) (Cr (VI)) (mg/kg)	ND	ND	0.12	0.2
Soluble Cobalt (Co) (mg/kg)	ND	ND	10	130
Soluble Copper (Cu) (mg/kg)	ND	ND	50	7700
Soluble Lead (Pb) (mg/kg)	ND	ND	10	23
Soluble Manganese (Mn) (mg/kg)	ND	ND	50	15000
Soluble Mercury (Hg) (mg/kg)	ND	ND	10	94
Soluble Nickel (Ni) (mg/kg)	ND	ND	10	930
Soluble Selenium (Se) (mg/kg)	ND	ND	10	460
Soluble Strontium (Sr) (mg/kg)	ND	ND	50	56000
Soluble Tin (Sn) (mg/kg)	ND	ND	3.3	180000
Soluble Organic Tin -- (mg/kg)	ND	ND	--	12
Soluble Zinc (Zn) (mg/kg)	ND	ND	50	46000



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Specimen Description:

1. White paper sheet w/ multi-color coating (Instruction)
2. Green colored series felt
3. Black colored series felt
4. Blue colored series felt
5. Red colored series felt
6. Yellow colored series felt
7. Brown colored series felt
8. White w/ transparent lacquer coating on wood (Block)
9. Dull green coating on wood (Block)
10. Grey coating on wood (Block)
11. Black coating on wood (Block)
12. Kelly w/ transparent lacquer coating on wood (Block) (E8022)
13. Purple-pink w/ transparent lacquer coating on wood (Block) (E8022)
14. Grey felt
15. Cyan w/ transparent lacquer coating on wood (Block) (E8304)
16. Dull red coating on wood (Block) (E8304)
17. Cream wood (Block) (E8339)
18. Dull blue w/ transparent lacquer coating on wood (Block) (E8339)
19. Orange-red coating on wood (Block)
20. Dark blue coating on wood (Block)
21. Yellow coating on wood (Block)
22. Dark purple coating on wood (Block)
23. Dark cyan coating on wood (Block)



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Specimen Description:

24. Dark green coating on wood (Block)
25. Green coating on wood (Block)
26. Brown wood (Block)
27. Transparent lacquer coating on wood (Block)
28. Red coating on wood (Block)
29. Blue coating on wood (Block)
30. Light green coating on wood (Block)
31. Orange coating on wood (Block)

- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - As received, test portion of light grey, dull orange, light brown, pink, dull red, dark red, dark pink, khaki, dull purple coating on wood (Block), brown coating on wood (Block) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2013 + A2:2017.
 - Result(s) of specimen No.20 is(are) extracted from report No.T51710261859TY.
Result(s) of specimen No.21 is(are) extracted from report No.T51710230177TY.
Result(s) of specimen No.22 – No.23 is(are) extracted from report No.T51710261851TY.
Result(s) of specimen No.24 is(are) extracted from report No.T51810192663TY.
Result(s) of specimen No.25 is(are) extracted from report No.T51710291751TY
Result(s) of specimen No.26 is(are) extracted from report No.T51710231695TY
Result(s) of specimen No.27 – No.28 is(are) extracted from report No.T51710241984TY
Result(s) of specimen No.29 – No.31 is(are) extracted from report No.T51710291022TY.

N.B. : - Only applicable clauses were shown.



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Sample Picture (As received)

Pic.1



Pic.2



Pic.3



SGS authenticate the photo on original report only

*** End of Report ***