

Report No.: STSGZ2211253012E Date: 12-Dec-2022 Page 1 of 11 CARPENTERS MANUFACTORY LIMITED **Applicant :** HUANG JIN JI INDÚSTRIAL ZONE, SHANG JIE VILLAGE, QI SHI TOWN, DONG GUAN Address: CITY, GUANG DONG PROVINCE, P.R.CHINA The following sample(s) and sample information was/were submitted and identified by client as: Gemstone blocks 40 Piece Set Sample Name: ME15228 Model : Labeled Age Grading: 3Y+ **Requested Age Grading:** 3Y+ **Tested Age Grading:** 3Y+ **Receiving Date:** 25-Nov-2022 **Test Period:** 25-Nov-2022 - 12-Dec-2022 Add Information:

#### **Report Summary**

#	Test item(s)	Reference Standard/Method	Result
1	Safety of Toys: Mechanical and Physical Properties	BS EN 71-1:2014+A1:2018	PASS
2	Safety of Toys: Flammability	BS EN 71-2:2020	PASS
3	Safety of Toys: Migration of Certain Elements	BS EN 71-3:2019+A1:2021	PASS

Signed for and on behalf of STS

Mark Mai

STING SERVIC (Technical Director)

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Guangzhou Depuhua Test Services Co. Ltd.

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Report No.: STSGZ2211253012E

Date: 12-Dec-2022

PASS

#### **Result:**

#### 1. Safety of Toys: Mechanical and Physical Properties –BS EN 71-1:2014+A1:2018

Clause	Parameter	Results
4	General requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA

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Report No.: STSGZ2211253012E

Date: 12-Dec-2022

Page 3 of 11

4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirement	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA

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Report No.: STSGZ2211253012E

Date: 12-Dec-2022

Page 4 of 11

5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys otherwise intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA

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Report No.: STSGZ2211253012E

Date: 12-Dec-2022

Page 5 of 11

PASS

7.20	Magnetic / electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Remark(s): NA = Not Applicable

NR = Not requested by the client

#### 2. Safety of Toys: Flammability –BS EN 71-2:2020

Clause	Parameter	Results
4.1	General requirements	Pass
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(s): NA = Not Applicable

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Report No.: STSGZ2211253012E

Date: 12-Dec-2022

Page 6 of 11

### 3. Safety of Toys: Migration of Certain Elements BS EN 71-3:2019+A1:2021 General elements determined by ICP-MS Chromium(VI) determined by IC-ICP-MS

Organic tin determined by GC-MS

		Material					
	Compound		Category III*1				RL (mg/kg)
	-	1 2 3		3	4	(mg/kg)	,
_1	Aluminum (Al)	N.D.	N.D.	N.D.	N.D.	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5
4	Barium(Ba)	N.D.	N.D.	N.D.	N.D.	18750	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	5
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.053
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	10
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	5
12	Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	10
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	10
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10
16	Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	56000	10
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D.*2	N.D. *2	N.D. *2	N.D. *2	12 <sup>*2</sup>	0.2*2
19	Zinc (Zn)	205	N.D.	N.D.	N.D.	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

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Report No.: STSGZ2211253012E

Date: 12-Dec-2022

Page 7 of 11

			Mat	erial			
	Compound		Category III*1			Limit (mg/kg)	RL (mg/kg)
		5 6 7		8		(99)	
1	Aluminum (Al)	N.D.	N.D.	N.D.	N.D.	28130	10
2	Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	560	10
3	Arsenic(As)	N.D.	N.D.	N.D.	N.D.	47	5
4	Barium(Ba)	N.D.	N.D.	N.D.	N.D.	18750	10
5	Boron (B)	N.D.	N.D.	N.D.	N.D.	15000	10
6	Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	17	5
7	Chromium (III) (Cr)	N.D.	N.D.	N.D.	N.D.	460	10
8	Chromium (VI) (Cr)	N.D.	N.D.	N.D.	N.D.	0.053	0.053
9	Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	130	10
10	Copper (Cu)	N.D.	N.D.	N.D.	N.D.	7700	10
11	Lead(Pb)	N.D.	N.D.	N.D.	N.D.	23	5
12	Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	15000	10
13	Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	94	10
14	Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	930	10
15	Selenium(Se)	N.D.	N.D.	N.D.	N.D.	460	10
16	Strontium (Sr)	N.D.	N.D.	N.D.	15	56000	10
17	Tin (Sn)	N.D.	N.D.	N.D.	N.D.	180000	4.9
18	Organic tin (Sn)	N.D. *2	N.D. *2	N.D. *2	N.D.*2	12 <sup>*2</sup>	0.2 <sup>*2</sup>
19	Zinc (Zn)	N.D.	N.D.	N.D.	10	46000	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

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Report No.: STSGZ2211253012E

Date: 12-Dec-2022

Page 8 of 11

		Mate	erial			
	Compound	Catego	Category III*1			
		9 10		(mg/kg)	(mg/kg)	
1	Aluminum (Al)	16	N.D.	28130	10	
2	Antimony (Sb)	N.D.	N.D.	560	10	
3	Arsenic(As)	N.D.	N.D.	47	5	
4	Barium(Ba)	N.D.	N.D.	18750	10	
5	Boron (B)	N.D.	N.D.	15000	10	
6	Cadmium (Cd)	N.D.	N.D.	17	5	
7	Chromium (III) (Cr)	N.D.	N.D.	460	10	
8	Chromium (VI) (Cr)	N.D.	N.D.	0.053	0.053	
9	Cobalt (Co)	N.D.	N.D.	130	10	
10	Copper (Cu)	N.D.	N.D.	7700	10	
11	Lead(Pb)	N.D.	N.D.	23	5	
12	Manganese (Mn)	N.D.	N.D.	15000	10	
13	Mercury (Hg)	N.D.	N.D.	94	10	
14	Nickel (Ni)	N.D.	N.D.	930	10	
15	Selenium(Se)	N.D.	N.D.	460	10	
16	Strontium (Sr)	N.D.	N.D.	56000	10	
17	Tin (Sn)	N.D.	N.D.	180000	4.9	
18	Organic tin (Sn)	N.D. *2	N.D.*2	12 <sup>*2</sup>	0.2*2	
19	Zinc (Zn)	N.D.	N.D.	46000	10	
	Conclusion	PASS	PASS	-	-	

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

\*1: Categories of various materials: Category I: Dry, brittle, powder like or pliable material Category II: Liquid or sticky material

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Report No.: STSGZ2211253012E

Date: 12-Dec-2022

Page 9 of 11

Category III: Scraped-off material \*2: Expressed as soluble Tributyltin.

### **Material List:**

Remark:

laterial #	Position / Sample Description
1	Transparent coating, board <sup>*a</sup>
2	Translucent red plastic, gem*b
3	Translucent blue plastic, gem <sup>*</sup>
4	Translucent yellow plastic, gem*d
5	Translucent green plastic, gem
6	Translucent orange plastic, gem
7	Translucent purple plastic, gem
8	Brown wood,handle <sup>*e</sup>
9	Laminate multicolor printed white paper,instruction book
10	Transparent plastic, binding

(a)\*a=the test date was copies fromSTSGZ2203242003-21. (b)\*b=the test date was copies from STSGZ2207273003-20. (c)\*c=the test date was copies from STSGZ2207273003-21. (d)\*d=the test date was copies from STSGZ2207273003-22. (e)\*e=the test date was copies from STSGZ2203242003-23.

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Report No.: STSGZ2211253012E

Date: 12-Dec-2022

Page 10 of 11

### Photo(s):

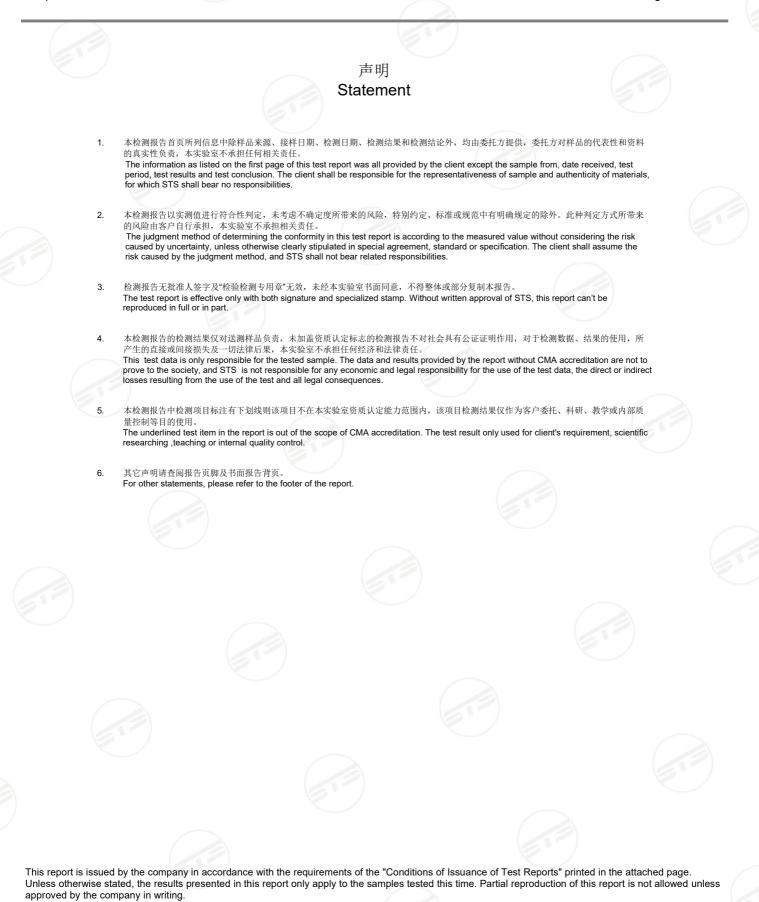


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Report No.: STSGZ2211253012E

Date: 12-Dec-2022

Page 11 of 11



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