

# TEST REPORT

in accordance with

GB/T4336-2002 STANDARD test method for spark discharge atomic emission spectrometric analysis of carbon and low-Alloy steel (routine method)  
BS EN 71-3:2013 Safety of toys Part 3-Migration of certain elements

**Waiting chair**

M/N: C-3-08#

placed on market and manufactured by

**Songran Furniture Manufacturing Co.,Ltd.**

Anfu Industrial Park, Xingtan Town, Shunde District ,Foshan City, Guangdong Province, China

Report No. : LSH14100258D  
Tested by : Leading Testing International (Shanghai) Co.,Ltd.  
No. C2203 , Shenzhuan Highway 6000, Shanghai,  
201612, P.R.China  
Date of Test : Oct. 23, 2014 to Oct. 31, 2014

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**Applicant** : Songran Furniture Manufacturing Co.,Ltd.  
**Add. of Applicant** : Anfu Industrial Park, Xingtan Town, Shunde District ,Foshan City,  
Guangdong Province, China

**The following sample(s) was/were submitted and identified by the client as:**

**Sample Name** : Waiting chair  
**Style/Item No.** : C-3-08#  
**Batch Number** : 2014-10-03  
**Sample No.** : 2 Pcs.  
**Manufacturer** : Songran Furniture Manufacturing Co.,Ltd.  
**Sample Receiving Date** : Oct. 22, 2014  
**Testing Period** : Oct. 23, 2014 to Oct. 31, 2014  
**Test Requested** : As requested by applicant, to determine related Waiting chair properties in accordance with GB/T4336-2002 and BS EN 71-3:2013  
**Test Conclusion** : For details, Refer to following pages.

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*For and on behalf of*

Leading Testing International (Shanghai) Co., Ltd.

Authorized Signature

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Gavin May/Mei Guozhu  
Laboratory Manager -LTI/SH

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## TEST RESULT:

### I.1 CHEMICAL ANALYSIS

**Test Conduct: Standard test method for spark discharge atomic emission spectrometric analysis of carbon and low-Alloy steel (routine method) (GB/T4336-2002)**

**Equipment(s): Metal analyzer ARL-3460**

<u>Sample No.</u>	<u>Unit</u>	<u>Composition</u>							
		<b>C</b>	<b>Mn</b>	<b>P</b>	<b>S</b>	<b>Si</b>	<b>V</b>	<b>Nb</b>	<b>Ti</b>
<u>SI</u>	%	0.07	0.18	0.025	0.011	0.029	<0.001	<0.001	0.001

### I.2 MIGRATION OF CERTAIN ELEMENTS

**Test Conduct: Migration of certain elements (Directive 2009/48/EC, 2012/7/EC& test standard requirements BS EN 71-3:2013)**

**Equipment(s): ICP-OES, GC-MS etc.**

<u>Soluble element</u>	<u>MQL</u>	<u>Limit (Unit: mg/kg)</u>	<u>Results (Unit: mg/kg)</u>
		<u>Category III</u>	<u>S2</u>
Aluminum (Al)	0.073	70000	7.2
Antimony (Sb)	0.014	560	N.D.
Arsenic (As)	0.027	47	N.D.
Barium (Ba)	0.027	18750	1.6
Boron (B)	0.039	15000	3.0
Cadmium (Cd)	0.059	17	N.D.
Trivalent Chromium (III)	0.064	460	N.D.
Hexavalent Chromium (VI)	0.023	0.2	N.D.
Cobalt (Co)	0.019	130	N.D.
Copper (Cu)	0.010	7700	5.9
Lead (Pb)	0.061	160	N.D.
Manganese (Mn)	0.050	15000	N.D.

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<u>Soluble element</u>	<u>MQL</u>	<u>Limit (Unit: mg/kg)</u>	<u>Results (Unit: mg/kg)</u>
		<u>Category III</u>	<u>S2</u>
Mercury (Hg)	0.010	94	N.D.
Nickel (Ni)	0.042	930	N.D.
Selenium (Se)	0.147	460	N.D.
Strontium (Sr)	0.067	56000	N.D.
Tin (Sn)	0.110	180000	N.D.
Organic Tin	0.120	12	N.D.
Zinc (Zn)	0.097	46000	9.4

## Limited Value for migration of certain elements:

<u>Soluble element</u>	<u>Limit (Unit: mg/kg)</u>		
	<u>Category I</u>	<u>Category II</u>	<u>Category III</u>
Aluminum (Al)	5625	1406	70000
Stibium (Sb)	45	11.3	560
Arsenic (As)	3.8	0.9	47
Barium (Ba)	1500	375	18750
Boron (B)	1200	300	15000
Cadmium (Cd)	1.3	0.3	17
Trivalent Chromium (Cr <sup>3+</sup> )	37.5	9.4	460
Hexavalent Chromium (Cr <sup>6+</sup> )	0.02	0.005	0.2
Cobalt (Co)	10.5	2.6	130
Copper (Cu)	622.5	156	7700
Lead (Pb)	13.5	3.4	160
Manganese (Mn)	1200	300	15000
Mercury (Hg)	7.5	1.9	94
Nickel (Ni)	75	18.8	930
Selenium (Se)	37.5	9.4	460

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<u>Soluble element</u>	<u>Limit (Unit: mg/kg)</u>		
	<u>Category I</u>	<u>Category II</u>	<u>Category III</u>
Strontium (Sr)	4500	1125	56000
Tin (Sn)	15000	3750	180000
Organic stannum	0.9	0.2	12
Zinc (Zn)	3750	938	46000

**Remark:**

- Category I : Dry, brittle, powder-like or pliable toy material;
- Category II : Liquid or sticky toy material;
- Category III: Scraped off toy material
- N.D.=not detected(<MQL)
- MQL=Method Quantitation Limit.

**Sample Description**

<u>No.</u>	<u>Sample Description</u>
<u>S1</u>	Handrail
<u>S2</u>	Seat board

\*\*\*\*\*To Be Continue\*\*\*\*\*

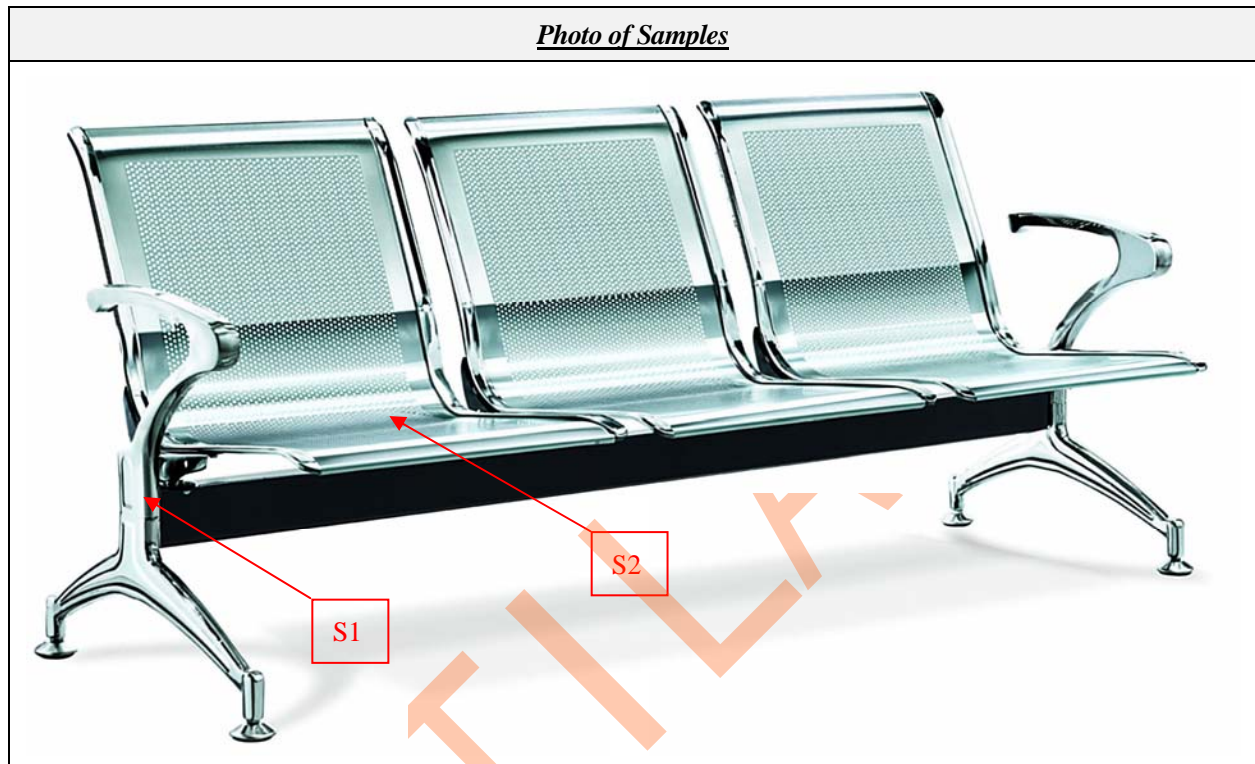
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## II. Annex



\*\*\*\*\*End of Report\*\*\*\*\*

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