



中国认可
国际互认
检测
TESTING
CNAS L1114

TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

Attn: Kelly Xiong

Sample Description: Magnetism Learning

Quantity Submitted: 1 set
Supplier: Carpenters Manufactory Limited
Buyer: Not provided
Style/Item No.: ME09616
P.O. No.: Not provided
Labeled Age Grading: 3+
Destination: Global
Country of Origin: China
Date(s) of samples received: February 21, 2017& March 17, 2017

TEST METHOD & RESULTS: Please refer to next page(s)

CONCLUSION: Please refer to page two(2)

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SZ-FAF-001 (2013-04-10)



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CONCLUSION:

USA:

ASTM F963-16 Physical & Mechanical Requirements	PASS
16 CFR 1500 Physical & Mechanical Requirements	PASS
ASTM F963-16 Flammability Requirements	PASS
16 CFR 1500.3 (c)(6) (vi) / 16 CFR 1500.44 Flammability Requirements	PASS
ASTM F963-16 Clause 4.3.5.1 (2) Elements Migration in surface coating	PASS ^{#2}
ASTM F963-16 Clause 4.3.5.2 (2) (b) Elements Migration in substrate	PASS ^{#4}
ASTM F963-16 Clause 4.3.5.1 (1) Total Lead in Surface Coating	PASS ^{#3}
16 CFR 1303 Total Lead Content Requirements	PASS ^{#3}
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Paint or Surface Coating]	PASS ^{#3}
ASTM F963-16 Clause 4.3.5.2 (2) (a) Total Lead in Substrate	PASS ^{#4}
Consumer Product Safety Improvement Act of 2008 Total Lead Content Requirement [Substrate Materials]	PASS ^{#4}
ASTM F963-16 Clause 4.3.5.2 (2) (c) Soluble Cadmium in metallic small part	NOT APPLICABLE ^{#1}
Consumer Product Safety Improvement Act of 2008 Total Phthalate Requirement	PASS ^{#2}

CANADA:

Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Physical And Mechanical Requirements	PASS
Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Flammability Requirements (Cellulose Nitrate And Celluloid)	PASS
Canada Toys Regulations SOR/2011-17 and Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Heavy Metal Content Requirements	PASS ^{#3}
Canada Phthalates regulations SOR 2016-188	PASS ^{#2}
Canada Consumer Products Containing Lead (Contact mouth) regulation	NOT APPLICABLE ^{#1}

AU:

AS/NZS 8124.1:2016 Physical & Mechanical Requirements	PASS
AS/NZS ISO 8124.2:2016 Flammability Requirements	PASS
Migration Of Certain Elements : AZ/NZS ISO 8124.3:2012/Amdt 1:2016	PASS ^{#2, #4}
DEHP requirement per Australia Government	NOT APPLICABLE ^{#1}

EU:

EN 71-1:2014 Mechanical & Physical Properties	PASS
EN 71-2:2011 + A1:2014 Flammability	PASS
EN 71-3:2013+A1:2014 Migration of Certain Elements	PASS ^{#2, #4}
Total Cadmium Content and European Reach Regulation Annex XVII	PASS ^{#2}
Total Phthalate Content European Reach Regulation Annex XVII	PASS ^{#2}
Azo Dyes Test and European Reach Regulation Annex XVII	NOT APPLICABLE ^{#1}

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- #1: There is no component on the submitted test samples under the testing scopes.
- #2: As claimed by client, the sample 2, 5, 6, 7 and 11 listed in the report is identical with the one in report C82071667. The test data of sample 2, 5, 6, 7 and 11 in the report was referred from report C82071667 issued on November 28, 2016.
- #3: As claimed by client, the sample 2, 5, 6, 7 and 11 listed in the report is identical with the one in report C82071666. The test data of sample 2, 5, 6, 7 and 11 in the report was referred from report C82071666 issued on November 28, 2016.
- #4: As claimed by client, the sample 13 and 14 listed in the report is identical with the one in report C82231639. The test data of sample 13 and 14 in the report was referred from report C82231639 issued on February 21, 2017.

For and on behalf of :
UL VS Shanghai Limited Shenzhen Branch

David Mo

Lulu Yang

David Mo
Supervisor - Toys Department

Lulu Yang
Senior Technical Officer
Chemical Department

Important Notes :

- The results only relate to the samples tested.
- The below tests are except from the ILAC-MRA/CNAS accreditation scope:**
1. Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Physical And Mechanical Requirements
 2. Canada Toys Regulations SOR/2011-17 And Regulations Amending Toys Regulations SOR/2016-195 &SOR/2016-302 Flammability Requirements (Cellulose Nitrate And Celluloid)

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TEST RESULTS

1. USA

1.1 MECHANICAL AND PHYSICAL TEST

AS PER ASTM STANDARD CONSUMER SAFETY SPECIFICATION FOR TOYS SAFETY F963-16

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+
Samples Quantity : 1 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material(visual check on cleanness)	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
4.11	Nails And Fasteners	P
4.38	Magnets	P
5	Safety Labeling Requirements	P
6	Instructional Literature	P
7	Producer's Markings	P

Remark: P = Pass

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TEST RESULTS

1.1.2 AS PER 16 CFR 1500.50, THE HAZARDS OF SHARP POINTS, SHARP EDGE AND SMALL PARTS ARE ASSESSED BOTH BEFORE AND AFTER APPLICABLE USE AND ABUSE \ TESTS:

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+
 Samples Quantity : 1 style (s) x 1 piece(s)

<u>TEST ITEMS</u>	<u>SHARP POINT</u> (1500.48)	<u>SHARP EDGE</u> (1500.49)
As received	P	P
1500.53 Impact Test	P	P
1500.53 Torque Test	P	P
1500.53 Tension Test	P	P
1500.53 Compression	P	P

Remark: P = Pass

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1.2 FLAMMABILITY TEST

1.2.1 AS ASTM STANDARD ON SAFETY OF TOYS F963-16 ANNEX A5:

Samples Quantity: 1 style (s) x 1 piece(s)
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.
Results: The sample was tested to be ignited but extinguished.

1.2.2 AS PER U.S. CODE OF FEDERAL REGULATIONS TITLE 16 PART 1500.44 FOR RIGID AND PLIABLE SOLIDS DEFINED UNDER 16 CFR 1500.3 SECTION (C) (6) (VI):

Samples Quantity: 1 style (s) x 1 piece(s)
Requirement: Burning rate should not exceed 0.1 inch per second along the major axis.
Results: The sample was tested to be ignited but extinguished.

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TEST RESULTS

1.3 CHEMICAL TESTS:

1.3.1 SOLUBLE ELEMENT MIGRATION IN SURFACE COATING

Requirement: As per ASTM F963-16 Clause 4.3.5.1 (2) requirement, materials under test shall not exceed below limit.

Test method Reference to ASTM F963-16 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	<6.0	<6.0	<6.0	7.5	<6.0	<6.0
Sample 7	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 11	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

- All concentrations expressed in milligrams per kilogram
- “<” means “less than”

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TEST RESULTS

1.3.2 SOLUBLE ELEMENT MIGRATION IN SUBSTRATES

Requirement: As per ASTM F963-16 Clause 4.3.5.2 (2) (b) requirement, materials under test shall not exceed below limit.

Test method Reference to ASTM F963-16 Clause 8.3, used acid extraction and analyzed by Inductively Coupled Argon Plasma Spectrometry.

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 9	<6.0	<2.5	8.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 10	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 12	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 13	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 14	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 15	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 16	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 17	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

- All concentrations expressed in milligrams per kilogram
- "<" means "less than"

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1.3.2 TOTAL LEAD CONTENT TEST: COATING

Requirement :As per ASTM F963-16 Clause 4.3.5.1 (1) requirement, lead content in the materials under test shall not exceed of 90ppm.

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results :

	<u>Sample 2</u>	<u>Sample 5</u>	<u>Sample 6</u>	<u>Sample 7</u>	<u>Sample 11</u>
Total Lead	<10.0	<10.0	21.9	<10.0	<10.0

All concentrations expressed in milligrams per kilogram
“<” means “less than”

1.3.4 TOTAL LEAD CONTENT TEST: COATING

Criteria: The submitted samples must meet the Total Lead Limit of 90ppm as stated in 16 CFR 1303

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

	<u>Sample 2</u>	<u>Sample 5</u>	<u>Sample 6</u>	<u>Sample 7</u>	<u>Sample 11</u>
Total Lead	<10.0	<10.0	21.9	<10.0	<10.0

All concentrations expressed in milligrams per kilogram
“<” means “less than”

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1.3.5 TOTAL LEAD CONTENT TEST: COATING

Requirement : The submitted samples must meet the Total Lead Limit of 90ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1003-09.1 Standard operating procedure for determining Lead (Pb) in paint

Results:

	<u>Sample 2</u>	<u>Sample 5</u>	<u>Sample 6</u>	<u>Sample 7</u>	<u>Sample 11</u>
Total Lead	<10.0	<10.0	21.9	<10.0	<10.0

All concentrations expressed in milligrams per kilogram
“<” means “less than”

1.3.6 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: As per ASTM F963-16 Clause 4.3.5.2 (2) (a) requirement, lead content in the materials under test shall not exceed of 100ppm.

Test method CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal ; CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal

Results :

	<u>Sample 8</u>	<u>Sample 9</u>	<u>Sample 14</u>	<u>Sample 15/16</u>
Total Lead	<10.0	<10.0	<10.0	<10.0
	<u>Sample 17/12</u>			
Total Lead	<10.0			

All concentrations expressed in milligrams per kilogram
“<” means “less than”

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1.3.7 TOTAL LEAD CONTENT TEST: SUBSTRATE

Requirement: The submitted samples must meet the Total Lead Limit of 100ppm as per Consumer Product Safety Improvement Act of 2008

Test method: CPSC-CH-E1001-8.3 Standard operating procedure for determining total Lead (Pb) in metal children's product (including children's metal jewelry);
CPSC-CH-E1002-8.3 Standard operating procedure for determining total Lead (Pb) in non-metal children's products.

Results:

	<u>Sample 8</u>	<u>Sample 9</u>	<u>Sample 14</u>	<u>Sample 15/16</u>
Total Lead	<10.0	<10.0	<10.0	<10.0
	<u>Sample 17/12</u>			
Total Lead	<10.0			

All concentrations expressed in milligrams per kilogram
"<" means "less than"

***** Page 11 of 28 *****

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CNAS L1114

TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

1.3.8 TOTAL PHTHALATE TEST

Requirement : DEHP, DBP or BBP content shall not be more than 0.1% by weight in toys and childcare article.
DINP, DIDP or DNOP content shall not be more than 0.1% by weight in toys and childcare article which can be placed in the mouth by children.

Test Method : CPSC-CH-C1001-09.3, Standard operating procedure for determination of phthalates.

Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 6	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND
Sample 11	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%
2) ND= not detected

Key : DBP = Di-butyl phthalate DEHP = Di (2-Ethylhexyl) phthalate
BBP = Benzyl butyl phthalate DINP = Di-“isonomy” phthalate
DIDP = Di-“isodecyl” phthalate DNOP = Di -n-octal phthalate

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

2. CANADA

2.1 MECHANICAL AND PHYSICAL TEST

AS PER CANADA TOYS REGULATIONS SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATION SOR/2016-195 &SOR/2016-302

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+
Samples Quantity : 1 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
8	Exposed Metal Edges	P
9	Ends	P
10	Exposed Plastic Parts	P
11	Exposed Wooden Surfaces, Edges And Corners	P
13	Fasteners	P

Remark: P = Pass

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

2.2 FLAMMABILITY TEST

AS PER CANADA TOYS REGULATIONS SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATIONS SOR/2016-195 & SOR/2016-302 SECTION 21 (CELLULOSE NITRATE AND CELLULOID)

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

2.3 CHEMICAL TESTS:

2.3.1 HEAVY METAL CONTENT TEST: CANADA TOYS REGULATION SOR/2011-17 AND REGULATIONS AMENDING TOYS REGULATIONS SOR/2016-195 & SOR/2016-302

Requirement : Surface coating applied to Toys shall comply with heavy metal requirement as below table.

Results:

Elements	Total Lead	Total Mercury	Soluble Antimony	Soluble Arsenic	Soluble Barium	Soluble Cadmium	Soluble Selenium
Limits	< 90	None	< 1000	< 1000	< 1000	< 1000	< 1000
Sample 2	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 5	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 6	21.9	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 7	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0
Sample 11	<10.0	**N/D	<50.0	<50.0	<50.0	<50.0	<50.0

All concentrations expressed in milligrams per kilogram
 “<” means “less than”
 “N/D” means “None Detected”
 **Detection Limit is 10.0 milligrams per kilogram.

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

2.3.3 CHEMICAL TESTS:

TOTAL PHTHALATE TEST: CANADA PHTHALATES REGULATION SOR 2016-188

Criteria : The submitted sample shall comply with Canada phthalate regulation.
DEHP, DBP and BBP: Vinyl used in Toy and child care article shall not contain more than 1000 mg/Kg of DEHP, DBP or BBP;
DINP, DIDP and DNOP: Vinyl used in any part of toy and child care article that can, in reasonably foreseeable manner, be placed the mouth of child of 4 years of age shall not contain more than 1000 mg/Kg of DINP, DIDP or DNOP

Method : Reference to Canada Product safety reference manual, Book 5, Part B, Method C-34, Determination of phthalates in polyvinyl chloride and following by Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 2	ND	ND	ND	ND	ND	ND
Sample 5	ND	ND	ND	ND	ND	ND
Sample 6	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND
Sample 11	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%
2) ND= not detected
3) All concentrations expressed in milligrams per kilogram

Key : DBP = Dibutyl Phthalate DEHP = Di (2-Ethylhexyl) Phthalate
BBP = Benzyl butyl Phthalate DINP = Di-“isononyl” phthalate
DIDP = Di-“isodecyl” phthalate DNOP = Di -n-octyl phthalate

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

3. AUSTRALIA

3.1 MECHANICAL AND PHYSICAL TEST

AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS 8124.1:2016 SAFETY ASPECTS RELATED TO MECHANICAL AND PHYSICAL PROPERTIES

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+
Samples Quantity : 1 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.3	Material	P
4.6	Edges	P
4.7	Points	P
ANNEX B	Safety labeling guidelines and manufacturer's markings	P

Remark: P = Pass

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

3.2 FLAMMABILITY TEST

AS PER AUSTRALIAN/NEW ZEALAND STANDARD ON SAFETY OF TOYS AS/NZS ISO 8124.2:2016 CLAUSE 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):

Requirement: Celluloid (cellulose nitrate) and materials with the same behaviour in fire (except when used in varnish or paint) shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

3.3 CHEMICAL TESTS:

3.3.1 MIGRATION OF CERTAIN ELEMENTS : AZ/NZS ISO 8124.3:2012/AMDT 1:2016

Results:

Elements	Antimony	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium
Limits	< 60	< 25	< 1000	< 75	< 60	< 90	< 60	< 500
Sample 2	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 5	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 6	<6.0	<2.5	<6.0	<6.0	<6.0	7.5	<6.0	<6.0
Sample 7	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 9	<6.0	<2.5	8.5	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 10	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 11	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 12	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 13	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 14	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 15	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 16	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0
Sample 17	<6.0	<2.5	<6.0	<6.0	<6.0	<6.0	<6.0	<6.0

Remark:

1. Method for determination of each soluble element present
 - a) Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury and Selenium are determined by Inductively Coupled Plasma Optical Emission Spectroscopy.

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

4. EU

4.1 MECHANICAL AND PHYSICAL TEST

AS PER EUROPEAN STANDARDS ON SAFETY OF TOYS EN 71-1: 2014

The following clauses are identified to be applicable:

Age grading for testing : Ages 3+
Samples Quantity : 1 style (s) x 1 piece(s)

<u>Clause</u>	<u>Test Items</u>	<u>Assessment</u>
4.1	Material Cleanliness	P
4.2	Assembly	P
4.7	Edges	P
4.8	Points and metallic wires	P
4.23	Magnets	P
7	Warnings, markings and instructions for use	P
7.1	General	P
7.2	Warning on toys not intended for children under 36 months	P

Remark: P = Pass

Warnings and safety instructions shall be written in the languages easily understood by consumers of the country in which the toy is to be sold. Only English version was reviewed.

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

4.2 FLAMMABILITY TEST

**AS PER EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-2:2011+ A1:2014
SECTION 4.1 GENERAL REQUIREMENT (CELLULOSE NITRATE):**

Requirement: Celluloid (cellulose nitrate), except when used in varnish, paint or glue, or in balls of the type used for table tennis or similar games, and materials with the same behaviour in fire as celluloid, shall not be used in the manufacture of toys.

Results: The submitted sample(s) complied with this requirement.

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

4.3 CHEMICAL TESTS:

4.3.1 ELEMENTS MIGRATION WITH REFERENCE TO 2009/48/EC AND ITS AMENDMENT

Test Method: EN71-3: 2013+A1:2014 Migration of certain elements

Results:

Elements ¹	Limits (Scraped off material)	Sample 2	Sample 5	Sample 6	Sample 7	Sample 9
Antimony	560	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	<5.0	<5.0	8.5
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III ²	460	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium VI ²	0.2	<0.2 ^A	<0.2 ^A	<0.2 ^A	<0.2 ^A	<0.2 ^A
Lead	160	6.0	<5.0	7.5	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	<50	<50	<50	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0	8.5
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	<5.0	69.5
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--	--	--
Zinc	46,000	5850.0	6500.0	6400.0	5550.0	<50

***** Page 22 of 28 *****

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SZ-FAF-001 (2013-04-10)



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CNAS L1114

TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14
Antimony	560	<5.0	<5.0	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0	<5.0	<5.0
Chromium III ²	460	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium VI ²	0.2	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ
Lead	160	<5.0	<5.0	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0	<5.0	<5.0
Aluminum	70,000	<50	55.0	<50	<50	<50
Boron	15,000	<50	<50	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0	<5.0	8.5
Tin	180,000	<4.0	<4.0	<4.0	<4.0	<4.0
Organic Tin ³ (Expressed as TBT)	12	--	--	--	--	--
Zinc	46,000	<50	5800.0	<50	<50	<50

***** Page 23 of 28 *****

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CNAS L1114

TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

Results:

Elements ¹	Limits (Scraped off material)	Sample 15	Sample 16	Sample 17
Antimony	560	<5.0	<5.0	<5.0
Arsenic	47	<2.5	<2.5	<2.5
Barium	18750	<5.0	<5.0	<5.0
Cadmium	17	<5.0	<5.0	<5.0
Chromium III ²	460	<0.2	<0.2	<0.2
Chromium VI ²	0.2	<0.2 ^Δ	<0.2 ^Δ	<0.2 ^Δ
Lead	160	<5.0	<5.0	<5.0
Mercury	94	<5.0	<5.0	<5.0
Selenium	460	<5.0	<5.0	<5.0
Aluminum	70,000	<50	<50	<50
Boron	15,000	<50	<50	<50
Cobalt	130	<5.0	<5.0	<5.0
Copper	7700	<50	<50	<50
Manganese	15,000	<5.0	<5.0	<5.0
Nickel	930	<5.0	<5.0	<5.0
Strontium	56,000	<5.0	<5.0	<5.0
Tin	180,000	<4.0	<4.0	<4.0
Organic Tin ³	12	--	--	--
(Expressed as TBT)				
Zinc	46,000	<50	<50	<50

All concentrations expressed in milligrams per kilogram
"<" means "less than"

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CNAS L1114

TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

REMARK:

1. Heavy Metals Content are Determined by ICP-MS (Induced Couple Plasma Mass Spectrometry) / ICP-OES (Induced Couple Plasma Optical Emission Spectroscopy)
2. If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI should be confirmed by further speciation techniques.
: The chromium VI content is determined by LC-ICP-MS
3. If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of organotin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and market with “- -“. Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis with derivatisation
4. Δ : Chromium VI data is based on total Chromium

4.3.2 TOTAL CADMIUM CONTENT AND EUROPEAN REACH REGULATION ANNEX XVII: WET-ASHING DIGESTION AND DETECTED WITH AAS/ICP & MICROWAVE DIGESTION AND DETECTED WITH AAS/ICP

Results:

Element	Total Cadmium
Limit	< 100
Sample 1	<5.0
Sample 2	<5.0
Sample 3/4	<5.0
Sample 5	<5.0
Sample 6	<5.0
Sample 7	<5.0
Sample 9	<5.0
Sample 11	<5.0
Sample 15/16	<5.0
Sample 17/12	<5.0

All concentrations expressed in milligrams per kilogram
" < " means "less than"

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

4.3.3 TOTAL PHTHALATE TEST AND EUROPEAN REACH REGULATION ANNEX XVII

Test Method : EN 14372: 2004
Requirement : DEHP, DBP & BBP content shall not be more than 0.1% by weight in toys and children article.
DINP, DIDP & DNOP content shall not be more than 0.1% by weight in toys and children article that can be placed in the mouth by children.
Results :

Sample ID	Plasticiser Values (w/w)					
	DBP	BBP	DEHP	DNOP	DINP	DIDP
Sample 1	ND	ND	ND	--	--	--
Sample 2	ND	ND	ND	ND	ND	ND
Sample 3	ND	ND	ND	--	--	--
Sample 4	ND	ND	ND	--	--	--
Sample 5	ND	ND	ND	ND	ND	ND
Sample 6	ND	ND	ND	ND	ND	ND
Sample 7	ND	ND	ND	ND	ND	ND
Sample 9	ND	ND	ND	ND	ND	ND
Sample 11	ND	ND	ND	ND	ND	ND
Sample 15/16	ND	ND	ND	ND	ND	ND
Sample 17/12	ND	ND	ND	ND	ND	ND

Remarks: 1) Detection Limit for each phthalate = 0.005%
2) ND = not detected

Key : DBP = Di-butyl phthalate DNOP = Di-n-octyl phthalate
BBP = Butyl-benzyl phthalate DINP = Di-iso-nonyl phthalate
DEHP = Di-(2-ethyl-hexyl) phthalate DIDP = Di-iso-decyl phthalate

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China
REPORT NO: C80111726
DATE: April 5, 2017

TEST RESULTS

Key to sample(s):

- Sample 1 = Matt-flesh color plastic (sample for plastic box inside of board of ME09616) (inaccessible)
- Sample 2 = Bright red coating (logo & pattern on board of all styles, oblong block/magnet/turn plate of ME09616) (A1Y)
- Sample 3 = White plastic (holder of turn plate of ME09616) (inaccessible)
- Sample 4 = Dull white plastic (ring on back of turn plate of ME09616) (inaccessible)
- Sample 5 = Dark green coating (logo & pattern on board of all styles) (A5Y)
- Sample 6 = Dark blue coating (oblong block & magnet & turn plate of ME09616) (A7Y)
- Sample 7 = White coating (lettering on board of ME09616, lettering on oblong block/magnet/turn plate of ME09616) (A16Y)
- Sample 8 = Silvery metal (axle on turnplate of ME09616)
- Sample 9 = White paper label with transparent plastic film and multicolor printings (sticker on board of ME09616)
- Sample 10 = White cord (joint of oblong block & magnet of ME09616)
- Sample 11 = Grey coating (pattern on board of ME09616, oblong block/magnet of ME09616) (A15Y)
- Sample 12 = Light flesh color plastic (big plug on board of ME09616)
- Sample 13 = Brown wood excluding coatings (oblong block/magnet/turn plate/holder of tube of ME09616)
- Sample 14 = Beige plywood excluding coatings (turn plate of ME09616)
- Sample 15 = Transparent plastic (tube of ME09616)
- Sample 16 = Transparent plastic (board of ME09616)
- Sample 17 = Flesh color plastic (small plug on board of ME09616)

Date(s) of test(s) conducted: February 23, 2017 to March 30, 2017

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TEST REPORT

CLIENT: Carpenters Manufactory Limited
ADDRESS: Huang Jin Ji Industrial Zone, Shang Jie Village, QiShi Town, DongGuan City, Guang Dong, China

REPORT NO: C80111726
DATE: April 5, 2017

Product Photo:



***** THE END *****

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SZ-FAF-001 (2013-04-10)

APPENDIX 1 - TERMS AND CONDITIONS OF SERVICE / 附件一：服务所依据的条款和条件

UL VS Shanghai Limited-Shenzhen Branch ("UL VS") undertakes to provide services to its Customer subject to the terms and conditions contained herein. 优力胜邦质量检测（上海）有限公司深圳分公司（“乙方”）承诺根据下列的条款对客户（“甲方”）提供服务。

The term of limitation of liability contained herein has been conspicuously marked to draw the attention of the Customer, the full and complete explanation of the wording and legal significance of this term have been made to the Customer by UL VS. The Customer agrees that this term shall be construed as a provision of the agreement between UL VS and itself, based on the full and complete understanding of the wording and legal significance of this term. 乙方对本附件第四条已经做出了明显的标识以提示甲方注意，并且对该条的文字表述和法律意义，向甲方做出了充分和完整的解释。甲方已经仔细阅读了本附件第四条，对其文字表述和法律意义已经充分和完整地理解，在此基础上甲方表示同意该条款当然成为甲乙双方之间的一项约定。

COMPUTATION OF CHARGES AND PAYMENT

第一条 费用计算和付款

- 1.1 (a) Consultation time shall be charged on a daily basis. (b) Where the personnel of UL VS are assigned by its Customer to any in-house projects, the Customer shall be billed on an hourly basis on the compensation rates of its personnel. 1.2 Disbursements incurred on the Customer's behalf such as expenditure for communications, transportation, travel, the purchase of any materials, tools, equipment, components or parts which are directly related to the service shall be billed at costs and shall include a reasonable handling charge at the discretion of UL VS. 1.3 Where in the opinion of UL VS the services are time consuming entailing the use of special equipment and disbursements, the Customer shall be charged on an "equipment-hour" basis on the spot. 1.4 Payments shall be made in RMB at its address or at such other address and in such manner as UL VS may from time to time specify. 1.5 The Customer undertakes during the continuance of this Agreement - (a) to punctually pay all billings rendered to the customer from time to time; (b) unless otherwise agreed in writing, payment is to be made within 7 days from the date of Invoice or the date of the Debit Note; (c) where the Customer fails to pay within time, UL VS shall charge interest on overdue invoices at the rate of 2% per month or 24% per annum until payment, such interest to run from day to day and to accrue after as well as before any judgment and is to be compounded at monthly intervals; (d) UL VS shall have a lien on any goods of the Customer until payment but the exercise of such lien shall not prevent interest continuing. 1.6 If the Customer shall fail to pay UL VS for any reason under Clause 1.5 or if the Customer shall commit a breach of any of its obligation under this Agreement or if a receiver of the Customer is appointed or if any resolution or petition to wind up the Customer's business shall be passed or presented (except for the purpose of reconstruction), UL VS may without prejudice to its other rights either suspend or cancel the Agreement and in such an event UL VS may also suspend or cancel any other existing contracts without being liable to damages.

CONFIDENTIAL TREATMENT OF INFORMATION

第二条 信息的保密处理

- 2.1 Unless otherwise specifically agreed between the parties, the services rendered by UL VS to the Customer shall be on a non-exclusive best-efforts basis. 2.2 UL VS shall have a lien on any goods of the Customer until payment but the exercise of such lien shall not prevent interest continuing. 2.3 UL VS undertakes that the identity of its Customers and the nature of services rendered shall be kept confidential unless the Customer agrees in writing to their release. 乙方承诺对其甲方的身份和所提供服务的性质保密，除非甲方书面同意揭露。若在乙方方面没有过错行为或失误的情况下，甲方的身份被公众普遍知悉，乙方不承担责任。

PATENT RIGHTS

第三条 专利权

- 3.1 Any invention made in the performance of work for the Customer by UL VS within the field of work undertaken for the Customer, belongs to the Customer. 3.2 UL VS's of the aforesaid inventions shall be free of any royalty fees provided that the uses of such inventions are confined to the performance of the work for the Customer.

LIMITATION OF LIABILITY

第四条 责任限制

- 4.1 If any liability on the part of UL VS shall arise (whether under the express or implied terms hereof or under the relevant Chinese laws and regulations) in contract, tort or infringement, the Customer's right to recover damages for any loss of whatever nature caused by the fault or negligence of UL VS or by any breach of its obligations or howsoever caused shall be limited to the payment by UL VS of the amount of the contract price under this Agreement and the said limitation of liability shall apply regardless of the form of action, whether in contract, tort, infringement or otherwise. 乙方承诺对其甲方的身份和所提供服务的性质保密，除非甲方书面同意揭露。若在乙方方面没有过错行为或失误的情况下，甲方的身份被公众普遍知悉，乙方不承担责任。

INDEMNITY

第五条 补偿

- 5.1 In the event of actual or threatened suit against UL VS in relation to the services undertaken on behalf of the Customer or in relation to any of the Products or Patent of the Customer or of any allegation of infringement of any letters patent, registered design, trade mark or trade name, the Customer shall indemnify UL VS harmless from any liability, action, claim, demand, costs, charges and expenses arising therefrom or from or expense including solicitors fees, counsel's fees in defending such action. 乙方承诺对其甲方的身份和所提供服务的性质保密，除非甲方书面同意揭露。若在乙方方面没有过错行为或失误的情况下，甲方的身份被公众普遍知悉，乙方不承担责任。

SOLICITATION OF EMPLOYEES

第六条 雇员引诱

- 6.1 It is mutually agreed that neither party shall solicit the employees of the other for employment or hire unless prior written consent to do so is obtained.

EFFECT OF PROPOSAL

第七条 建议书的效力

- 7.1 The accompanying proposal is valid for a period of ninety (90) days from the date of the proposal unless extended in writing by UL VS. Upon the acceptance of such proposal, this appendix shall form part of the Agreement with the Customer and notwithstanding any prior discussions or prior oral or written agreements to the contrary, the terms and conditions herein shall be applicable and take precedence over any conflicting terms contained in any documents submitted by the Customer.

DATA AND DOCUMENT RETENTION

第八条 数据和文件保留

- 8.1 (a) After the services are rendered, UL VS may retain a copy of all documents relating to the services ("Supporting Documents") for as long as UL VS, in its sole discretion, deems fit. (b) Unless otherwise specified or required by the applicable law, all Supporting Documents over 3 years of age will be automatically destroyed by UL VS without notice to the Customers. 8.2 (c) The Customer shall indemnify UL VS for any costs or expenses in responding to or opposing any subpoena, the production of any documents in Court seeking the disclosure of the said documents or any information contained therein.

GOVERNING LAW

第九条 适用法律

- 9.1 This Agreement and the rights and obligations of the parties shall in all respects be governed, construed, interpreted and operated in accordance with the relevant Chinese laws and regulations.

OBLIGATIONS OF THE CUSTOMER

第十条 甲方的义务

- 10.1 If the Customer intends to change the work hereunder or assign any other work to UL VS, such a change or new assignment shall be subject to a separate negotiation and agreement between both of the parties. 10.2 If the work undertaken by UL VS hereunder requires any assistance of the Customer, the Customer shall be obliged to provide all necessary and reasonable assistance which UL VS may deem fit.

SAMPLES

第十一条 样品

- 11.1 UL VS expects Customers to abide by all applicable regulations when shipping samples to UL VS. Improper shipping may result in additional charges for costs incurred by UL VS: (a) to identify samples to UL VS, (b) damage done to UL VS personnel or property as a result of improper packaging, labeling or omission of identifying documents. UL VS has the right to refuse receipt of any shipment that, in its discretion, is unsafe or has been shipped improperly. 11.2 乙方期望甲方能够遵循所有适用的规定把样品寄送给乙方。不正确的寄递方式可能导致成本增加。乙方将收取附加费用：(a) 鉴定样品成分；(b) 由于不正确的包装、标记或者识别文件的遗漏导致乙方人员或财产损失。乙方拥有拒绝接收或拒收的判断为不安全或以不正确方式寄送的样品之权利。在这条款下，由于乙方拒绝接收而产生的一切费用将由甲方单独承担。乙方将要求甲方赔偿由于甲方不正确的包装和寄递方式所导致的部分以及全部的损坏、开支、罚款、裁定、债务以及其他费用（包括律师费用）。

E-MAIL DISCLAIMER

第十二条 电子邮件免责声明

- 12.1 UL VS shall follow the request of the Customer in the event that final report / results hereunder shall be sent by e-mail rather than by paper hard copy. UL VS considers e-mail a valuable and efficient tool, however, UL VS hereby gives cautions to the Customer that the report / results in electronic version may inadvertently be modified once it is in the Customer's word processing system. 12.2 乙方期望甲方能够遵循所有适用的规定把样品寄送给乙方。不正确的寄递方式可能导致成本增加。乙方将收取附加费用：(a) 鉴定样品成分；(b) 由于不正确的包装、标记或者识别文件的遗漏导致乙方人员或财产损失。乙方拥有拒绝接收或拒收的判断为不安全或以不正确方式寄送的样品之权利。在这条款下，由于乙方拒绝接收而产生的一切费用将由甲方单独承担。乙方将要求甲方赔偿由于甲方不正确的包装和寄递方式所导致的部分以及全部的损坏、开支、罚款、裁定、债务以及其他费用（包括律师费用）。

MISCELLANEOUS PROVISIONS

第十三条 其他规定

- 13.1 Any provision of this Agreement prohibited by or regarded as unlawful or unenforceable under any applicable law actually applied by any court of competent jurisdiction shall, to the extent required by such law, be severed by this Agreement and rendered ineffective so far as is possible without modifying the remaining provisions of the agreement. 13.2 A certificate signed by any officer of UL VS as to the amount due from the Customer hereunder at the date of such certificate shall, in the absence of manifest error, be conclusive evidence of the amount due. 13.3 Nothing in this Agreement shall be considered to form a partnership between the parties. No party shall represent that it acts as agent for another or has any capacity to bind another in any contractual or other arrangements. 13.4 Save as herein otherwise provided any notice required to be given hereunder shall be sufficiently given if given in writing or by telegram or telex to the last known postal address or telex number of the addresses and every notice shall be deemed to have been received and given at the time when in the course of transmission it should have been delivered at the address or telex number to which it was sent. 13.5 The report or certificate does not relieve sellers/suppliers from their contractual responsibility with regards to the quality/quantity of this delivery nor does it prejudice Customer's right to claim towards sellers/suppliers for compensation for any apparent and/or hidden defects not detected during UL VS's random inspection or testing or audit.