



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52410250897TY

Date: JAN 30, 2024

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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:

E3220 BUILD-IT TOOL BOX
E3221 LITTLE ENGINEER'S WORKBENCH

Item No. : E3220, E3221
Country of Origin : CHINA
Country of Destination : GLOBAL
Client Reference Information : E3220A,E3221A
Labeled Age Grading : 3-8 YEARS
Requested Age Grading : 3-8Y

Age Group Assessed by SGS As Per Age : OVER 3 YEARS
Guideline
Age Group Applied in Testing : OVER 3 YEARS
Sample Receiving Date : JAN 19, 2024
Testing Period : JAN 19, 2024 TO JAN 30, 2024



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Shenzhen Branch Testing Center Hardlines

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Selected test(s) as requested by the client, please refer to test result page(s) for details:

Test Requested		Conclusion
1.	For compliance with the test requirement of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety.	--
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS*
2.	With reference to the test requirement of ASTM F963-23 Standard Consumer Safety Specification on Toy Safety.	--
	ASTM F963-23 Standard Consumer Safety Specification for Toy Safety	PASS
3.	For compliance with test requirement of the Physical & Mechanical, Flammability test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A	--
	Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501: -US CPSC 16 CFR 1500.48 – Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of ages -US CPSC 16 CFR 1500.49 – Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age -US CPSC 16 CFR 1501 – Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts	PASS
	US CPSC 16 CFR 1500.19 – Misbranded toys and other articles intended for use by children (Not misbranded toys or articles intended for use by children)	PASS
	US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	PASS
4.	Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. - Part 1303 - Ban of Lead - Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint – Lead Content	PASS



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Test Requested		Conclusion
5.	Tracking label per 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	PASS*
6.	CPSIA section 101 - Total Lead content	--
	CPSIA section 101(f) (1) – Lead in paint/similar surface coating material	PASS
	Client's Requirement – Lead in paint/similar surface coating material	PASS
	CPSIA section 101(a) (2) – Lead in accessible substrate materials (Including Children's Metal Jewelry)	PASS
	Client's Requirement – Lead in accessible substrate materials (Including Children's Metal Jewelry)	PASS

Remark: Test item (s) with "*" is (are) not accredited by CNAS.

***** 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





Sun Enxu, Aaron
Dept. Manager
CNAS Approved Signatories

Sun Yaqing, Sunny
Supervisor
CNAS Approved Signatories



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Results:

ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

Clause	Description	Result
4	Safety Requirements	
4.1	Material Quality **	PASS
4.2	Flammability Test	PASS (See Result Page)
4.3	Toxicology	
4.3.2	Manufacturing and Packaging of Food	N/A
4.3.3	Indirect Food Additives	N/A
4.3.4	Cosmetics	N/A
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	PASS (See Result Page)
4.3.5.2	Heavy Metal in Substrate Materials	PASS (See Result Page)
4.3.6	Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item of Avian Feather Origin	N/A
4.3.7	Stuffing Materials	N/A
4.3.8	DEHP (DOP)	N/A
4.4	Electrical/Thermal Energy	N/A
4.5	Sound-Producing Toys	PASS
4.6.1	Small Objects	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Labelling Requirements	PASS
4.7	Accessible Edges	PASS
4.8	Projections	N/A
4.9	Accessible Points	PASS
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	PASS
4.12	Plastic Film	PASS
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-Line Clearance	N/A



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Clause	Description	Result
4.14	Cords, Straps and Elastic	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearance & Accessibility of Mechanisms	PASS
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys (Non-rechargeable battery)	PASS
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.29	Art Materials	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys and Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chest	N/A
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	PASS
5.3	Safety Labeling Requirements	PASS
5.4	Aquatic Toys	N/A
5.5	Crib & Playpen Toys	N/A
5.6	Mobile	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	N/A



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Clause	Description	Result
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges and Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles, and Balloons	PASS
5.12	Toy Caps	N/A
5.13	Art Materials	N/A
5.14	Electric Toys	N/A
5.15	Battery-Operated Toys	N/A
5.16	Promotional Materials	PASS
5.17	Magnets	N/A
6	Instructional Literature	
6.2	Crib & Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	PASS
6.6	Battery Powered Ride-on Toy	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
7	Producer's Markings	
7.1	Producer's Markings	PASS
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	N/A
8.5	Normal Use Testing	PASS
8.7	Impact Test	PASS
8.8	Torque Test	PASS
8.9	Tension Test	PASS
8.10	Compression Test	PASS
8.12	Flexure Test	N/A
8.16	Tension Test for Pompoms	N/A



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Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

E3220 BUILD-IT TOOL BOX

E3221 LITTLE ENGINEER'S WORKBENCH

Burning Rate (inch/sec)

0.01

Requirement:

A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 / ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	90		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Multi-color coating on paper sheet (Instruction) + Transparent lacquer coating on wood (Body, stick, tool)	2	1	ND
2. Transparent lacquer w/ dark orange coating on wood (Tool) + Transparent lacquer w/ black coating on wood (Ring) + Bright red coating on wood (Body)	2	2	ND
3. Light orange coating on wood (Body) + Blue coating on wood (Body) + Dark blue coating on wood (Body)	2	3	ND
4. Pale gray coating on wood (Gear) w/ Brown coating on wood (Logo) + Dull pale gray coating on wood (Gear)	2	4	ND
5. Orange w/ light pink coating on wood (Tool) w/ Black coating on wood (Tool) + Red coating on wood (Tool)	2	5	ND
6. Yellow coating on wood (Body) w/ White coating on wood (Pattern) w/ Grey coating on wood (Pattern)	2	6	ND
7. Light blue w/ pale blue coating on wood (Body) w/ White coating (Electric screwdriver)	2	7	ND



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Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm)				90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	1	1	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	7	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	8	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	9	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	10	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	11	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	12	/	ND	ND	ND	ND	ND	ND	ND	ND
8	1	13	/	ND	ND	ND	ND	ND	ND	ND	ND
9	1	15	/	ND	ND	ND	ND	ND	ND	ND	ND
10	1	16	/	ND	ND	ND	ND	ND	ND	ND	ND
11	1	20	/	ND	ND	ND	ND	ND	ND	ND	ND
12	1	26	/	ND	ND	ND	ND	ND	ND	ND	ND
13	1	29	/	ND	ND	ND	ND	ND	ND	ND	ND
14	1	31	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

- Multi-color coating on paper sheet (Instruction)
- Transparent lacquer w/ dark orange coating on wood (Tool)
- Transparent lacquer w/ black coating on wood (Ring)
- Bright red coating on wood (Body)
- Light orange coating on wood (Body)
- Blue coating on wood (Body)
- Dark blue coating on wood (Body)
- Pale gray coating on wood (Gear)
- Dull pale gray coating on wood (Gear)
- Orange w/ light pink coating on wood (Tool)
- Light blue w/ pale blue coating on wood (Body)



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Specimen Description:

- 12. Transparent lacquer coating on wood (Body, stick, tool)
- 13. Red coating on wood (Tool)
- 14. Yellow coating on wood (Body)

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - For Soluble Heavy Metal Content:

Result(s) of specimen No.12 is(are) extracted from report No.T52310350755TY.

Result(s) of specimen No.13 is(are) extracted from report No.T52310351212TY.

Result(s) of specimen No.14 is(are) extracted from report No.T52310350763TY.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- ^Δ Test result is over the action limit as suggested by CPSC-CH-E1003-09.1. As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibility fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- * Exceeds Permissible Limit

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

Brown coating on wood (Logo)

Black coating on wood (Tool)

White coating on wood (Pattern)

Grey coating on wood (Pattern)

White coating (Electric screwdriver)



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ASTM F963-17, Clause 4.3.5.2 – Heavy Elements in Substrate Materials

Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3 / ASTM F963-17 Clause 8.3 / CPSC-CH-E1004-11

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

Total Lead Content

Test Item(s)			Lead (Pb)
MDL (ppm)			10
Total Limit (ppm)			100
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Gray plastic (ABS) (Accessory) + Light gray plastic (Screw, nut) + Pale gray plastic (Hammer)	3	1	ND
2. Black soft plastic (TPE) (Wheel) w/ Transparent dry glue (Fastener) + Gray plastic (PP) (Wheel) + Bright gray plastic (ABS) (Accessory)	3	2	ND
3. White plastic (Fastener) + Blue plastic (ABS) (Electric screwdriver)	3	3	ND
4. Gray plastic (ABS) (Electric screwdriver) + Light grey plastic (ABS) (Electric screwdriver)	3	4	ND
5. Brown hardboard (Ring, gear, body) + Cream plywood (Tool, body)	3	5	ND
6. Silvery metal rivet (Body)	4	1	ND



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Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm) -- Other Than Modeling Clays				90	60	25	1000	75	60	60	500
Migration Limit (ppm) -- Modeling Clays				90	60	25	250	50	25	25	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	1	2	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	3	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	4	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	5	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	6	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	21	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	22	/	ND	ND	ND	ND	ND	ND	ND	ND
8	1	24	/	ND	ND	ND	ND	ND	ND	ND	ND
9	1	25	/	ND	ND	ND	ND	ND	ND	ND	ND
10	1	27	37.0	ND	ND	ND	ND	ND	ND	ND	ND
11	1	28	/	ND	ND	ND	16	ND	ND	ND	ND
12	1	30	/	ND	ND	ND	ND	ND	ND	ND	ND
13	1	32	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Gray plastic (ABS) (Accessory)
2. Light gray plastic (Screw, nut)
3. Black soft plastic (TPE) (Wheel)
4. Gray plastic (PP) (Wheel)
5. Pale gray plastic (Hammer)
6. White plastic (Fastener)
7. Blue plastic (ABS) (Electric screwdriver)
8. Gray plastic (ABS) (Electric screwdriver)
9. Light grey plastic (ABS) (Electric screwdriver)
10. Transparent dry glue (Fastener)



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Specimen Description:

11. Brown hardboard (Ring, gear, body)
12. Cream plywood (Tool, body)
13. Bright gray plastic (ABS) (Accessory)

- Note:
- ppm = parts per million
 - µg/component = microgramme per component
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - For Soluble Heavy Metal Content:

Result(s) of specimen No.10 is(are) extracted from report No.T52310262060TY.

Result(s) of specimen No.11 is(are) extracted from report No.T52310351212TY.

Result(s) of specimen No.12 is(are) extracted from report No.T52310351210TY.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- ^Δ Test result is over recommended action limit (80% of the regulatory limit). As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibly fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- * Exceeds Permissible Limit



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ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-23 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

Clause	Description	Result
4	Safety Requirements	
4.1	Material Quality **	PASS
4.2	Flammability Test	PASS (See Result Page)
4.3	Toxicology	
4.3.2	Manufacturing and Packaging of Food	N/A
4.3.3	Indirect Food Additives	N/A
4.3.4	Cosmetics	N/A
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	PASS (See Result Page)
4.3.5.2	Heavy Metal in Substrate Materials	PASS (See Result Page)
4.3.6	Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item of Avian Feather Origin	N/A
4.3.7	Stuffing Materials	N/A
4.3.8	Phthalates	PASS (See Result Page)
4.4	Electrical/Thermal Energy	N/A
4.5	Sound-producing Toys	PASS
4.6.1	Small Objects	N/A
4.6.2	Mouth-actuated Toys	N/A
4.6.3	Labelling Requirements	PASS
4.7	Accessible Edges	PASS
4.8	Projections	N/A
4.9	Accessible Points	PASS
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	PASS
4.12	Plastic Film	PASS
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-line Clearance	N/A



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Clause	Description	Result
4.14	Cords, Straps and Elastic	N/A
4.15	Stability and Over-load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearance & Accessibility of Mechanisms	PASS
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys (Non-rechargeable battery)	PASS
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and Carriage Toys	N/A
4.29	Art Materials	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys and Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chest	N/A
5	Labeling Requirements	
5.1	Federal Government Requirements	
5.1.1	Specific Labeling Requirement	See Remark
(Remark: All toys that fall within the definitions and requirements of the U.S. FHSA shall conform to the labeling requirement of that act. For specific requirements, reference 16 CFR 1500.3, 1500.14, 1500.19, 1500.82, 1500.83, 1500.86, 1500.121, 1500.122, 1500.123, 1500.125, 1500.126, 1500.127, 1500.128, 1500.130, 1505.3, and 1511.7. In addition, state labeling requirements may exist.)		



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Clause	Description	Result
5.1.2	Tracking Label	PASS
5.2	Age Grading Labeling	PASS
5.3	Safety Labeling Requirements	PASS
5.4	Aquatic Toys	N/A
5.5	Crib & Playpen Toys	N/A
5.6	Mobile	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	N/A
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges and Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles, and Balloons	PASS
5.12	Art Materials	N/A
5.13	Electric Toys	N/A
5.14	Battery-operated Toys	N/A
5.15	Promotional Materials	PASS
5.16	Magnets	N/A
6	Instructional Literature	
6.2	Crib & Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	PASS
6.6	Battery-powered Ride-on Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
6.9	The instructional material for toys which require a manufacturer-supplied specialty or custom tool to access the battery(ies)	N/A
7	Producer's Markings	
7.1	Producer's Markings	PASS
7.2	Battery-powered Ride-on Toys	N/A
7.3	Toy Chests	N/A
8.5	Normal Use Testing	PASS
8.7	Impact Test	PASS
8.8	Torque Test	PASS
8.9	Tension Test	PASS
8.10	Compression Test	PASS
8.12	Flexure Test	N/A
8.16	Tension Test for Pompoms	N/A



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Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

E3220 BUILD-IT TOOL BOX

E3221 LITTLE ENGINEER'S WORKBENCH

Burning Rate (inch/sec)

0.01

Requirement:

A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

ASTM F963-23, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 / ASTM F963-23 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	90		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Multi-color coating on paper sheet (Instruction) + Transparent lacquer coating on wood (Body, stick, tool)	7	1	ND
2. Transparent lacquer w/ dark orange coating on wood (Tool) + Transparent lacquer w/ black coating on wood (Ring) + Bright red coating on wood (Body)	7	2	ND
3. Light orange coating on wood (Body) + Blue coating on wood (Body) + Dark blue coating on wood (Body)	7	3	ND
4. Pale gray coating on wood (Gear) w/ Brown coating on wood (Logo) + Dull pale gray coating on wood (Gear)	7	4	ND
5. Orange w/ light pink coating on wood (Tool) w/ Black coating on wood (Tool) + Red coating on wood (Tool)	7	5	ND
6. Yellow coating on wood (Body) w/ White coating on wood (Pattern) w/ Grey coating on wood (Pattern)	7	6	ND
7. Light blue w/ pale blue coating on wood (Body) w/ White coating (Electric screwdriver)	7	7	ND



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Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm)				90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	6	1	/	ND	ND	ND	ND	ND	ND	ND	ND
2	6	7	/	ND	ND	ND	ND	ND	ND	ND	ND
3	6	8	/	ND	ND	ND	ND	ND	ND	ND	ND
4	6	9	/	ND	ND	ND	ND	ND	ND	ND	ND
5	6	10	/	ND	ND	ND	ND	ND	ND	ND	ND
6	6	11	/	ND	ND	ND	ND	ND	ND	ND	ND
7	6	12	/	ND	ND	ND	ND	ND	ND	ND	ND
8	6	13	/	ND	ND	ND	ND	ND	ND	ND	ND
9	6	15	/	ND	ND	ND	ND	ND	ND	ND	ND
10	6	16	/	ND	ND	ND	ND	ND	ND	ND	ND
11	6	20	/	ND	ND	ND	ND	ND	ND	ND	ND
12	6	26	/	ND	ND	ND	ND	ND	ND	ND	ND
13	6	29	/	ND	ND	ND	ND	ND	ND	ND	ND
14	6	31	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

- Multi-color coating on paper sheet (Instruction)
- Transparent lacquer w/ dark orange coating on wood (Tool)
- Transparent lacquer w/ black coating on wood (Ring)
- Bright red coating on wood (Body)
- Light orange coating on wood (Body)
- Blue coating on wood (Body)
- Dark blue coating on wood (Body)
- Pale gray coating on wood (Gear)
- Dull pale gray coating on wood (Gear)
- Orange w/ light pink coating on wood (Tool)
- Light blue w/ pale blue coating on wood (Body)



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Specimen Description:

- 12. Transparent lacquer coating on wood (Body, stick, tool)
- 13. Red coating on wood (Tool)
- 14. Yellow coating on wood (Body)

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - For Soluble Heavy Metal Content:

Result(s) of specimen No.12 is(are) extracted from report No.T52310350755TY.

Result(s) of specimen No.13 is(are) extracted from report No.T52310351212TY.

Result(s) of specimen No.14 is(are) extracted from report No.T52310350763TY.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- ^Δ Test result is over the action limit as suggested by CPSC-CH-E1003-09.1. As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibility fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- * Exceeds Permissible Limit

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-23 Clause 8.3.3.6 (2) – Selection of Test Portions

Brown coating on wood (Logo)

Black coating on wood (Tool)

White coating on wood (Pattern)

Grey coating on wood (Pattern)

White coating (Electric screwdriver)



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ASTM F963-23, Clause 4.3.5.2 – Heavy Elements in Substrate Materials

Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3 / ASTM F963-23 Clause 8.3 / CPSC-CH-E1004-11

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

Total Lead Content

Test Item(s)			Lead (Pb)
MDL (ppm)			10
Total Limit (ppm)			100
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Gray plastic (ABS) (Accessory) + Light gray plastic (Screw, nut) + Pale gray plastic (Hammer)	8	1	ND
2. Black soft plastic (TPE) (Wheel) w/ Transparent dry glue (Fastener) + Gray plastic (PP) (Wheel) + Bright gray plastic (ABS) (Accessory)	8	2	ND
3. White plastic (Fastener) + Blue plastic (ABS) (Electric screwdriver)	8	3	ND
4. Gray plastic (ABS) (Electric screwdriver) + Light grey plastic (ABS) (Electric screwdriver)	8	4	ND
5. Brown hardboard (Ring, gear, body) + Cream plywood (Tool, body)	8	5	ND
6. Silvery metal rivet (Body)	9	1	ND



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Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm) -- Other Than Modeling Clays				90	60	25	1000	75	60	60	500
Migration Limit (ppm) -- Modeling Clays				90	60	25	250	50	25	25	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	6	2	/	ND	ND	ND	ND	ND	ND	ND	ND
2	6	3	/	ND	ND	ND	ND	ND	ND	ND	ND
3	6	4	/	ND	ND	ND	ND	ND	ND	ND	ND
4	6	5	/	ND	ND	ND	ND	ND	ND	ND	ND
5	6	6	/	ND	ND	ND	ND	ND	ND	ND	ND
6	6	21	/	ND	ND	ND	ND	ND	ND	ND	ND
7	6	22	/	ND	ND	ND	ND	ND	ND	ND	ND
8	6	24	/	ND	ND	ND	ND	ND	ND	ND	ND
9	6	25	/	ND	ND	ND	ND	ND	ND	ND	ND
10	6	27	37.0	ND	ND	ND	ND	ND	ND	ND	ND
11	6	28	/	ND	ND	ND	16	ND	ND	ND	ND
12	6	30	/	ND	ND	ND	ND	ND	ND	ND	ND
13	6	32	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Gray plastic (ABS) (Accessory)
2. Light gray plastic (Screw, nut)
3. Black soft plastic (TPE) (Wheel)
4. Gray plastic (PP) (Wheel)
5. Pale gray plastic (Hammer)
6. White plastic (Fastener)
7. Blue plastic (ABS) (Electric screwdriver)
8. Gray plastic (ABS) (Electric screwdriver)
9. Light grey plastic (ABS) (Electric screwdriver)
10. Transparent dry glue (Fastener)



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Specimen Description:

11. Brown hardboard (Ring, gear, body)
12. Cream plywood (Tool, body)
13. Bright gray plastic (ABS) (Accessory)

- Note:
- ppm = parts per million
 - µg/component = microgramme per component
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - For Soluble Heavy Metal Content:

Result(s) of specimen No.10 is(are) extracted from report No.T52310262060TY.

Result(s) of specimen No.11 is(are) extracted from report No.T52310351212TY.

Result(s) of specimen No.12 is(are) extracted from report No.T52310351210TY.

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- ^Δ Test result is over recommended action limit (80% of the regulatory limit). As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibly fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- * Exceeds Permissible Limit



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Standard Consumer Safety Specification on Toy Safety, ASTM F963-23, Clause 4.3.8 – Phthalate Content

Method: With reference to CPSC-CH-C1001-09.4

Analysis was performed by Gas Chromatography Mass Spectrometer (GC-MS) / High Performance Liquid Chromatography with Mass Spectrometer (HPLC-MS)

Test Item(s)	CAS No.	Result (s) (%)			MDL (%)	Permissible Limit (%)
Specimen No.	--	1	2	3		
Alias No.	--	13	13	13		
Tracing No.	--	1	2	3		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	ND	0.015	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	ND	0.015	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	ND	0.015	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	ND	0.015	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	ND	0.015	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	0.015	0.1
Di-n-pentyl phthalate (DPP/DPEP/DPENP)	131-18-0	ND	ND	ND	0.015	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	ND	0.015	0.1



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Test Item(s)	CAS No.	Result (s) (%)		MDL (%)	Permissible Limit (%)
Specimen No.	--	4	5		
Alias No.	--	13	13		
Tracing No.	--	4	5		
Dibutyl Phthalate (DBP)	84-74-2	ND	ND	0.015	0.1
Benzylbutyl Phthalate (BBP)	85-68-7	ND	ND	0.015	0.1
Di-(2-ethyl hexyl) phthalate (DEHP) / Dioctyl Phthalate (DOP)	117-81-7	ND	ND	0.015	0.1
Diisononyl Phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	0.015	0.1
Di-n-Hexyl phthalate (DHP/DnHP/DHEXP)	84-75-3	ND	ND	0.015	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	0.015	0.1
Di-n-pentyl phthalate (DPP/DPEP/DPENP)	131-18-0	ND	ND	0.015	0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	ND	ND	0.015	0.1

Specimen Description:

1. Gray plastic (ABS) (Accessory) + Light gray plastic (Screw, nut) + Pale gray plastic (Hammer)
2. Black soft plastic (TPE) (Wheel) w/ Transparent dry glue (Fastener)
3. Gray plastic (PP) (Wheel) + Bright gray plastic (ABS) (Accessory)
4. White plastic (Fastener) + Blue plastic (ABS) (Electric screwdriver)
5. Gray plastic (ABS) (Electric screwdriver) + Light grey plastic (ABS) (Electric screwdriver)



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- Note:
- % = percentage by weight
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the total specimen weight
- ^Δ Result is made based on the composite test which may have the probability of one or more components that can lead to a failure conclusion. Individual test is highly recommended for each component
- * Exceeds Permissible Limit



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US CPSC

PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

	No. of sample tested	Sharp point (16 CFR 1500.48)	Sharp edge (16 CFR 1500.49)	Small part (16 CFR 1501)
As received	4	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	2	Pass	Pass	N/A
Bite test (16 CFR 1500.52c)	0	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	0	N/A	N/A	N/A
Torque test (16 CFR 1500.53e)	2	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	2	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	2	Pass	Pass	N/A

US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

AS SPECIFIED IN US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

Appropriate warning according to 16 CFR 1500.19 was found on the principle display panel of the product's packaging.



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US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

AS SPECIFIED IN US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

Sample

E3220 BUILD-IT TOOL BOX

E3221 LITTLE ENGINEER'S WORKBENCH

Burning Rate (inch/sec)

0.01

Requirement:

A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

CPSC 16 CFR 1303 - Lead in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Multi-color coating on paper sheet (Instruction) + Transparent lacquer coating on wood (Body, stick, tool)	5	1	ND
2. Transparent lacquer w/ dark orange coating on wood (Tool) + Transparent lacquer w/ black coating on wood (Ring) + Bright red coating on wood (Body)	5	2	ND
3. Light orange coating on wood (Body) + Blue coating on wood (Body) + Dark blue coating on wood (Body)	5	3	ND
4. Pale gray coating on wood (Gear) w/ Brown coating on wood (Logo) + Dull pale gray coating on wood (Gear)	5	4	ND
5. Orange w/ light pink coating on wood (Tool) w/ Black coating on wood (Tool) + Red coating on wood (Tool)	5	5	ND
6. Yellow coating on wood (Body) w/ White coating on wood (Pattern) w/ Grey coating on wood (Pattern)	5	6	ND
7. Light blue w/ pale blue coating on wood (Body) w/ White coating (Electric screwdriver)	5	7	ND



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- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- ^Δ Test result is over the action limit as suggested by CPSC-CH-E1003-09.1. As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibly fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- * Exceeds Permissible Limit

As specified in 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label on the packaging: Present
- Tracking label on the product: Present

Note: The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.



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CPSIA - Lead in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Multi-color coating on paper sheet (Instruction) + Transparent lacquer coating on wood (Body, stick, tool)	10	1	ND
2. Transparent lacquer w/ dark orange coating on wood (Tool) + Transparent lacquer w/ black coating on wood (Ring) + Bright red coating on wood (Body)	10	2	ND
3. Light orange coating on wood (Body) + Blue coating on wood (Body) + Dark blue coating on wood (Body)	10	3	ND
4. Pale gray coating on wood (Gear) w/ Brown coating on wood (Logo) + Dull pale gray coating on wood (Gear)	10	4	ND
5. Orange w/ light pink coating on wood (Tool) w/ Black coating on wood (Tool) + Red coating on wood (Tool)	10	5	ND
6. Yellow coating on wood (Body) w/ White coating on wood (Pattern) w/ Grey coating on wood (Pattern)	10	6	ND
7. Light blue w/ pale blue coating on wood (Body) w/ White coating (Electric screwdriver)	10	7	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- ^Δ Test result is over the action limit as suggested by CPSC-CH-E1003-09.1. As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibility fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- * Exceeds Permissible Limit



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CPSIA - Lead in Accessible Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Method (metal materials): With reference to CPSC-CH-E1001-08.3 - Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			100
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Gray plastic (ABS) (Accessory) + Light gray plastic (Screw, nut) + Pale gray plastic (Hammer)	11	1	ND
2. Black soft plastic (TPE) (Wheel) w/ Transparent dry glue (Fastener) + Gray plastic (PP) (Wheel) + Bright gray plastic (ABS) (Accessory)	11	2	ND
3. White plastic (Fastener) + Blue plastic (ABS) (Electric screwdriver)	11	3	ND
4. Gray plastic (ABS) (Electric screwdriver) + Light grey plastic (ABS) (Electric screwdriver)	11	4	ND
5. Brown hardboard (Ring, gear, body) + Cream plywood (Tool, body)	11	5	ND
6. Silvery metal rivet (Body)	12	1	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- ^Δ Test result is over recommended action limit (80% of the regulatory limit). As the result is based on composite test and falls into an uncertain range, where "Pass" or "Fail" cannot be truly defined, "Interim-Fail" is given since the specimen may possibility fail according to the regulatory limit. Individual test is highly recommended to determine the exact Lead content in each component. The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight
- * Exceeds Permissible Limit



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N/A = Not Applicable

** = Visual Examination

DNI = Did Not Ignite

SE = Self-Extinguishing

IBE = Ignite But Self-Extinguished

SE within 50mm = Self-extinguished within 50 mm of flame application

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2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$



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Sample Picture (As received)

Pic.1



Pic.2



SGS authenticate the photo on original report only

*** End of Report ***



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