

# Test Report

No.: SZHL260300846301TY

Date: APR 01, 2026

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Shantou Qihangxing intelligent Technology Co., Ltd.

No.1, Neidipu Area, Xiadaimei Village, Xinan Town, Chenghai District, 515832 Shantou, Guangdong Sheng, china

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

Sample Descriptions : Electric water gun  
 Item No.(s) : T-01, T-02, T-03, T-04, T-05, T-06, T-07, T-08, T-09, T-10, T-11, T-12, T-13, T-14, T-15, T-16, T-17, T-18, T-19, T-20, T-21, T-22, T-23, T-24, T-25, T-26, T-27, T-28, T-29, T-30, T-31, T-32, T-33, T-34, T-35, T-36, T-37, T-38, T-39, T-40, T-41, T-42, T-43, T-44, T-45, T-46, T-47, T-48, T-49, T-50, T-51, T-52, T-53, T-54, T-55, T-56, T-57, T-58, T-59, T-60  
 Labeled Age Grading : 6+; 6+ YEARS  
 Requested Age Grading : 6+

\*\*\*\*\*

SGS Order No : SZHL2603008463TY  
 Age Group Assessed by SGS As Per Age : OVER 3 YEARS  
 Guideline  
 Age Group Applied in Testing : OVER 3 YEARS  
 Sample Receiving Date : MAR 16, 2026  
 Testing Period : MAR 16, 2026 TO APR 01, 2026

Test Requested		Conclusion
1	For compliance with the European standard on Safety of toys:- (Except USB cable)	--
	EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	EN 71-2: 2020 – Safety of toys – Part 2: Flammability	PASS
	EN 71-2: 2020+A1:2025 – Safety of toys – Part 2: Flammability	PASS
	Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	SEE RESULT



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Test Requested	Conclusion
2 For compliance with the British Standard on Safety of toys:- (Except USB cable)	--
BS EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
BS EN 71-2:2020 – Safety of toys – Part 2: Flammability	PASS
BS EN 71-2:2020+A1:2025 – Safety of toys – Part 2: Flammability	PASS
Labeling requirement (Washing/Cleaning Label, UKCA marking or CE marking, importer/manufacturer name and address, product identification) for the market of Great Britain (England, Wales and Scotland) with reference to the Toys (Safety) Regulations 2011	SEE RESULT
3 EN 71-3:2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)	PASS
4 EN71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)	PASS
5 BS EN71-3: 2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)	PASS
6 BS EN71-3: 2019+A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)	PASS

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

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



Liu Ming, Nathan  
 Senior Engineer  
 CNAS Approved Signatory



Sun Yaqing, Sunny  
 Supervisor  
 CNAS Approved Signatory



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 Shenzhen Branch Testing Center Hardlines

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**EUROPEAN STANDARD ON SAFETY OF TOYS**

**EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES**

AS SPECIFIED IN EN 71-1:2014 + A1:2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

Clause	Test Item	Result
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	--
4.10.1	Folding And Sliding Mechanisms	NA
4.10.2	Driving Mechanisms	Pass
4.10.3	Hinges	NA (See remark)
	Remark: Not applicable to hinge arrangement in which any part of it weighs less than 250g.	
4.10.4	Springs	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
4.14.1	Toys Which A Child Can Enter	NA
4.14.2	Masks And Helmets	NA
4.15	Toys Intended To Bear The Mass Of A Child	NA
4.16	Heavy Immobile Toys	NA
4.17	Projectiles	NA
4.18	Aquatic Toys And Inflatable Toys	NA



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Clause	Test Item	Result
4.19	Percussion Caps Specifically Designed For Use In Toys And Toys Using Percussion Caps	NA
4.20	Acoustics	Pass
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 Requirements	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
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
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing	



Clause	Test Item	Result
	the following aspects: a) Emphasising the warning b) Contrast, background and colours c) Reflecting surfaces and obscuring material d) Font type e) Font size f) Logical direction of text For more details, see EN 71-1.  Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.	
7.2	Toys Not Intended For Children Under 36 Months	Pass (See remark)
	Remark: The toy contains small parts. It is acceptable because appropriate warning is found on packaging.	
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 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
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



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Clause	Test Item	Result
7.24	Sledges With Cords For Pulling	NA
7.25	Flying Toys	NA
7.26	Improvised Projectiles	NA

**EN 71-2: 2020 – Safety of toys – Part 2: Flammability**

AS SPECIFIED IN EN 71-2: 2020 – Safety of toys – Part 2: Flammability

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

Clause	Test Item	Result
4	Requirements	
4.1	General Requirements	Pass
4.2	Toys To Be Worn On The Head	
4.2.2	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude 50 mm Or More From The Surface Of The Toy	NA
4.2.3	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude Less Than 50 mm From The Surface Of The Toy	NA
4.2.4	Full Or Partial Moulded Head Masks	NA
4.2.5	Toys To Be Worn On The Head (Except Those Covered By 4.2.2 And 4.2.3), Hoods, Headdresses Including Upward Protruding Items And Masks Not Covered By 4.2.4 Which Partially Or Fully Cover The Head (e.g. Fabric And Paperboard Masks, Eye Masks, Face Masks), But Excluding Those Items Covered By 4.3	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



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**EN 71-2: 2020+A1:2025 – Safety of toys – Part 2: Flammability**

AS SPECIFIED IN EN 71-2: 2020+A1:2025 – Safety of toys – Part 2: Flammability

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

Clause	Test Item	Result
4	<b>Requirements</b>	
4.1	General Requirements	Pass
4.2	Toys To Be Worn On The Head	
4.2.2	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude 50 mm Or More From The Surface Of The Toy	NA
4.2.3	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude Less Than 50 mm From The Surface Of The Toy	NA
4.2.4	Full Or Partial Moulded Head Masks	NA
4.2.5	Toys To Be Worn On The Head (Except Those Covered By 4.2.2 And 4.2.3), Hoods, Headdresses Including Upward Protruding Items And Masks Not Covered By 4.2.4 Which Partially Or Fully Cover The Head (e.g. Fabric And Paperboard Masks, Eye Masks, Face Masks), But Excluding Those Items Covered By 4.3	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



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**LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO INFORMATIVE ANNEX A.26 AND A.33 OF THE EUROPEAN STANDARD ON SAFETY OF TOYS EN 71-1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS**

Summary table:

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

Note:

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

**BS EN 71-1:2014 + A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties**

AS SPECIFIED IN BS EN 71-1:2014+A1:2018 – safety of toys – part 1: mechanical and physical properties

Clauses relevant to the item:

Clause	Test Item	Result
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



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Clause	Test Item	Result
4.9	Protruding Parts	NA
4.10	Parts Moving Against Each Other	--
4.10.1	Folding And Sliding Mechanisms	NA
4.10.2	Driving Mechanisms	Pass
4.10.3	Hinges	NA (See remark)
	Remark: Not applicable to hinge arrangement in which any part of it weighs less than 250g.	
4.10.4	Springs	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
4.14.1	Toys Which A Child Can Enter	NA
4.14.2	Masks And Helmets	NA
4.15	Toys Intended To Bear The Mass Of A Child	NA
4.16	Heavy Immobile Toys	NA
4.17	Projectiles	NA
4.18	Aquatic Toys And Inflatable Toys	NA
4.19	Percussion Caps Specifically Designed For Use In Toys And Toys Using Percussion Caps	NA
4.20	Acoustics	Pass
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 Requirements	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



Clause	Test Item	Result
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
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
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects: a) Emphasising the warning b) Contrast, background and colours c) Reflecting surfaces and obscuring material d) Font type e) Font size f) Logical direction of text For more details, see BS EN 71-1.	
7.2	Toys Not Intended For Children Under 36 Months	Pass (See remark)
	Remark: The toy contains small parts. It is acceptable because appropriate warning is found on packaging.	
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 Intended To Be Strung Across A Cradle, Cot, Or Perambulator	NA
7.12	Liquid-Filled Teethers	NA



Clause	Test Item	Result
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
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

**BS EN 71-2: 2020 – Safety of toys – Part 2: Flammability**

AS SPECIFIED IN BS EN 71-2: 2020 – Safety of toys – Part 2: Flammability

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

Clause	Test Item	Result
<b>4</b>	<b>Requirements</b>	
4.1	General Requirements	Pass
<b>4.2</b>	<b>Toys To Be Worn On The Head</b>	
4.2.2	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude 50 mm Or More From The Surface Of The Toy	NA
4.2.3	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude Less Than 50 mm From The Surface Of The Toy	NA
4.2.4	Full Or Partial Moulded Head Masks	NA
4.2.5	Toys To Be Worn On The Head (Except Those Covered By 4.2.2 And 4.2.3), Hoods, Headdresses Including Upward Protruding Items And Masks Not Covered By 4.2.4 Which Partially Or Fully Cover The Head (e.g. Fabric And Paperboard Masks, Eye Masks, Face Masks), But Excluding Those Items Covered By 4.3	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



**BS EN 71-2:2020+A1:2025 – Safety of toys – Part 2: Flammability**

AS SPECIFIED IN BS EN 71-2:2020+A1:2025 – Safety of toys – Part 2: Flammability

Type of gas: Butane gas used in the test burner

Clauses relevant to the item:

Clause	Test Item	Result
4	Requirements	
4.1	General Requirements	Pass
4.2	Toys To Be Worn On The Head	
4.2.2	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude 50 mm Or More From The Surface Of The Toy	NA
4.2.3	Beards, Moustaches, Wigs, Etc., Made From Pile Or Flowing Elements Which Protrude Less Than 50 mm From The Surface Of The Toy	NA
4.2.4	Full Or Partial Moulded Head Masks	NA
4.2.5	Toys To Be Worn On The Head (Except Those Covered By 4.2.2 And 4.2.3), Hoods, Headdresses Including Upward Protruding Items And Masks Not Covered By 4.2.4 Which Partially Or Fully Cover The Head (e.g. Fabric And Paperboard Masks, Eye Masks, Face Masks), But Excluding Those Items Covered By 4.3	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



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**LABELING REQUIREMENT (WASHING/CLEANING LABEL, UKCA MARKING OR CE MARKING, IMPORTER/MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) FOR THE MARKET OF GREAT BRITAIN (ENGLAND, WALES AND SCOTLAND) WITH REFERENCE TO THE TOYS (SAFETY) REGULATIONS 2011**

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not Applicable	----
UKCA marking or CE marking	Present	Packaging
Importer's Name & Address	Absent.	----
Manufacturer's Name & Address	Absent.	----
Product ID	Present	Packaging

Note:

1. A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed.
2. The UKCA marking should be affixed visibly, legibly and indelibly. UKCA marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other information enabling the toy to be identified, or where the size or nature of the toy precludes the information from being marked on the toy that the required information is provided on the packaging or in a document accompanying the toy.
5. Until 31 December 2027, the UKCA marking may be affixed to a document accompanying the toy. Where toys are too small or consist of small parts, the UKCA marking may be affixed to a label which is not affixed to the toy or a leaflet which accompanies the toy.
6. Until 31 December 2027, for the importers who imported the toy from an EEA state or Switzerland, are temporarily permitted to indicate their name, registered trade name or registered trade mark and a postal address on the toy's packaging or in a document accompanying the toy, instead of on the toy itself.
7. Until 11pm 31 December 2024, toys conforming to EU rules, including the CE marking, may be placed on the market of Great Britain. And on 24 January 2024, the UK government announced that it intends to legislate to continue recognition of EU requirements, including the CE marking, indefinitely for a range of product regulations in spring 2024.



Test Result(s):

**Test Part Description:**

SN ID	Sample No.	Description
SN1	A1	Pearl silvery plastic (Gun)
SN2	A2	Pearl matte silvery plastic (Gun)
SN3	A3	Blue plastic (Gun)
SN4	A4	Transparent black plastic (Gun)
SN5	A5	Black plastic (Gun)
SN6	A6	Transparent grey-black plastic (Bottle)
SN7	A7	Pearl dark silvery plastic (Gun)
SN8	A8	Transparent white soft plastic (Cover, ring)
SN9	A9	Transparent soft plastic (Tube)
SN10	A10	White foam sheet (Washer)
SN11	A11	Yellow plastic (Gun)
SN12	A12	Red plastic (Gun)
SN13	A13	Bright red plastic (Gun)
SN14	A14	Dull grey plastic (Gun)
SN15	A15	Transparent light black plastic (Gun)
SN16	A16	Cream-white plastic (Gun)
SN17	A17	Transparent red plastic (Plug)
SN18	A18	Matte red plastic (Socket)
SN19	A19	Orange-yellow plastic (Gun)
SN20	A20	Bright orange-yellow plastic (Gun)
SN21	A21	Matte black plastic (Gun)
SN22	A22	Dark yellow plastic (Gun)
SN23	A23	Bright dark yellow plastic (Gun)
SN24	A24	White plastic (Gun)
SN25	A25	Translucent black plastic (Gun)
SN26	A26	Transparent plastic (Gun)
SN27	A27	Bright white plastic (Gun)
SN28	A28	Green plastic (Gun)
SN29	A29	Blue plastic (Gun)
SN30	A30	Chocolate plastic (Gun)
SN31	A31	Grey plastic (Gun)
SN32	A32	Matte grey plastic (Gun)
SN33	A33	Bright green plastic (Gun)
SN34	A34	Matte dark yellow plastic (Gun)
SN35	A35	Bright chocolate plastic (Gun)
SN36	A36	Translucent bright black plastic (Gun)
SN37	A37	Translucent orange plastic (Gun)
SN38	A38	Orange plastic (Gun)
SN39	A39	Black coating on plastic (Gun)
SN40	A40	White coating on plastic (Gun)



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SN ID	Sample No.	Description
SN41	A41	Red coating on plastic (Gun)

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

**EN 71-3:2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)**

**Test Method:** With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV, LC-ICP-MS or IC-ICP-MS.  
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Mass of trace amount	-	mg	-	48.4	29.8	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	4.9	ND
Soluble Organic Tin*	12	mg/kg	-	ND	-	ND
Sum of Soluble Organic Tin	12	mg/kg	-	-	ND	-
Butyl tin(BuT)	-	mg/kg	0.5	-	ND	-
Dibutyl tin(DBT)	-	mg/kg	0.5	-	ND	-
Di-n-octyl tin(DOT)	-	mg/kg	0.5	-	ND	-
Diphenyl tin(DPhT)	-	mg/kg	0.5	-	ND	-
Di-n-Propyltin(DProT)	-	mg/kg	0.5	-	ND	-
Methyl tin(MeT)	-	mg/kg	0.5	-	ND	-
n-Octyl tin(MOT)	-	mg/kg	0.5	-	ND	-
Tributyl tin(TBT)	-	mg/kg	0.5	-	ND	-
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	-	ND	-
Triphenyl tin(TPhT)	-	mg/kg	0.5	-	ND	-
Di-methyl tin(DMT)	-	mg/kg	0.5	-	ND	-
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A28	A29	A30
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A31	A32	A33
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A31	A32	A33
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A34	A35	A36
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A39
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND



Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A39
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	396
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	10
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	3.7
Soluble Organic Tin*	12	mg/kg	-	ND	ND	-
Sum of Soluble Organic Tin	12	mg/kg	-	-	-	4.0
Butyl tin(BuT)	-	mg/kg	0.5	-	-	ND
Dibutyl tin(DBT)	-	mg/kg	0.5	-	-	ND
Di-n-octyl tin(DOT)	-	mg/kg	0.5	-	-	ND
Diphenyl tin(DPhT)	-	mg/kg	0.5	-	-	ND
Di-n-Propyltin(DProT)	-	mg/kg	0.5	-	-	ND
Methyl tin(MeT)	-	mg/kg	0.5	-	-	0.6
n-Octyl tin(MOT)	-	mg/kg	0.5	-	-	ND
Tributyl tin(TBT)	-	mg/kg	0.5	-	-	ND
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	-	-	ND
Triphenyl tin(TPhT)	-	mg/kg	0.5	-	-	ND
Di-methyl tin(DMT)	-	mg/kg	0.5	-	-	3.4
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

**Remark:**

As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2019+A1:2021.

A40, A41

**Notes:**

(1) According to Chapter of 10.1.2 of EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) \*Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

(3) De-waxing was applied (excluding analysis of organic tin) if the test specimen contains grease, oil, wax or silimar material as specified in EN 71-3:2019+A1:2021.

(4) / = Not Applicable.



**EN71-3: 2019+ A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)**

**Test Method:** With reference to EN 71-3:2019+ A2:2024, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.  
Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Mass of trace amount	-	mg	-	48.4	29.8	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	4.9	ND
Soluble Organic Tin*	12	mg/kg	-	ND	-	ND
Sum of Soluble Organic Tin	12	mg/kg	-	-	ND	-
Butyl tin(BuT)	-	mg/kg	0.5	-	ND	-
Dibutyl tin(DBT)	-	mg/kg	0.5	-	ND	-
Di-n-octyl tin(DOT)	-	mg/kg	0.5	-	ND	-
Diphenyl tin(DPhT)	-	mg/kg	0.5	-	ND	-
Di-n-Propyltin(DProT)	-	mg/kg	0.5	-	ND	-
Methyl tin(MeT)	-	mg/kg	0.5	-	ND	-
n-Octyl tin(MOT)	-	mg/kg	0.5	-	ND	-
Tributyl tin(TBT)	-	mg/kg	0.5	-	ND	-
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	-	ND	-
Triphenyl tin(TPhT)	-	mg/kg	0.5	-	ND	-
Di-methyl tin(DMT)	-	mg/kg	0.5	-	ND	-
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A28	A29	A30
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A31	A32	A33
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A31	A32	A33
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A34	A35	A36
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A39
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A39
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	396
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	10
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	3.7
Soluble Organic Tin*	12	mg/kg	-	ND	ND	-
Sum of Soluble Organic Tin	12	mg/kg	-	-	-	4.0
Butyl tin(BuT)	-	mg/kg	0.5	-	-	ND
Dibutyl tin(DBT)	-	mg/kg	0.5	-	-	ND
Di-n-octyl tin(DOT)	-	mg/kg	0.5	-	-	ND
Diphenyl tin(DPhT)	-	mg/kg	0.5	-	-	ND
Di-n-Propyltin(DProT)	-	mg/kg	0.5	-	-	ND
Methyl tin(MeT)	-	mg/kg	0.5	-	-	0.6
n-Octyl tin(MOT)	-	mg/kg	0.5	-	-	ND
Tributyl tin(TBT)	-	mg/kg	0.5	-	-	ND
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	-	-	ND
Triphenyl tin(TPhT)	-	mg/kg	0.5	-	-	ND
Di-methyl tin(DMT)	-	mg/kg	0.5	-	-	3.4
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

**Remark:**

As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in EN 71-3:2019+A2:2024.

A40, A41

**Notes:**

(1) According to Chapter of 10.1.2 of EN 71-3:2019+ A2:2024, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) \*Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+ A2:2024.

(3) /=Not Applicable

**BS EN71-3: 2019+A1:2021 - Migration of certain elements (Category III:for scrapped-off toy material)**

**Test Method:** With reference to BS EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND



Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Mass of trace amount	-	mg	-	/	/	/



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>



Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Mass of trace amount	-	mg	-	48.4	29.8	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	4.9	ND
Soluble Organic Tin*	12	mg/kg	-	ND	-	ND
Sum of Soluble Organic Tin	12	mg/kg	-	-	ND	-



Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Butyl tin(BuT)	-	mg/kg	0.5	-	ND	-
Dibutyl tin(DBT)	-	mg/kg	0.5	-	ND	-
Di-n-octyl tin(DOT)	-	mg/kg	0.5	-	ND	-
Diphenyl tin(DPhT)	-	mg/kg	0.5	-	ND	-
Di-n-Propyltin(DProT)	-	mg/kg	0.5	-	ND	-
Methyl tin(MeT)	-	mg/kg	0.5	-	ND	-
n-Octyl tin(MOT)	-	mg/kg	0.5	-	ND	-
Tributyl tin(TBT)	-	mg/kg	0.5	-	ND	-
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	-	ND	-
Triphenyl tin(TPhT)	-	mg/kg	0.5	-	ND	-
Di-methyl tin(DMT)	-	mg/kg	0.5	-	ND	-
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND



Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A28	A29	A30
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND



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# Test Report

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Test Item(s)	Limit	Unit(s)	MDL	A28	A29	A30
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A31	A32	A33
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A34	A35	A36
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A34	A35	A36
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A39
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	396
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	10
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	3.7
Soluble Organic Tin*	12	mg/kg	-	ND	ND	-
Sum of Soluble Organic Tin	12	mg/kg	-	-	-	4.0
Butyl tin(BuT)	-	mg/kg	0.5	-	-	ND
Dibutyl tin(DBT)	-	mg/kg	0.5	-	-	ND
Di-n-octyl tin(DOT)	-	mg/kg	0.5	-	-	ND



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Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A39
Diphenyl tin(DPhT)	-	mg/kg	0.5	-	-	ND
Di-n-Propyltin(DProT)	-	mg/kg	0.5	-	-	ND
Methyl tin(MeT)	-	mg/kg	0.5	-	-	0.6
n-Octyl tin(MOT)	-	mg/kg	0.5	-	-	ND
Tributyl tin(TBT)	-	mg/kg	0.5	-	-	ND
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	-	-	ND
Triphenyl tin(TPhT)	-	mg/kg	0.5	-	-	ND
Di-methyl tin(DMT)	-	mg/kg	0.5	-	-	3.4
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

**Remark:**

As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in BS EN 71-3:2019+A1:2021.

A40, A41

**Notes:**

(1) According to Chapter of 10.1.2 of BS EN 71-3:2019+A1:2021, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) \*Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in BS EN 71-3:2019+A1:2021.

(3) De-waxing was applied (excluding analysis of organic tin) if the test specimen contains grease, oil, wax or silimar material as specified in BS EN 71-3:2019+A1:2021.

(4) / = Not Applicable.

**BS EN71-3: 2019+A2:2024 - Migration of certain elements (Category III:for scrapped-off toy material)**

**Test Method:** With reference to BS EN 71-3:2019+ A2:2024, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

Soluble Organic Tin was analyzed by GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1	A2	A3
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A4	A5	A6
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A7	A8	A9
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A10	A11	A12
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND



Test Item(s)	Limit	Unit(s)	MDL	A13	A14	A15
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Mass of trace amount	-	mg	-	48.4	29.8	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	4.9	ND
Soluble Organic Tin*	12	mg/kg	-	ND	-	ND
Sum of Soluble Organic Tin	12	mg/kg	-	-	ND	-
Butyl tin(BuT)	-	mg/kg	0.5	-	ND	-
Dibutyl tin(DBT)	-	mg/kg	0.5	-	ND	-
Di-n-octyl tin(DOT)	-	mg/kg	0.5	-	ND	-
Diphenyl tin(DPhT)	-	mg/kg	0.5	-	ND	-
Di-n-Propyltin(DProT)	-	mg/kg	0.5	-	ND	-
Methyl tin(MeT)	-	mg/kg	0.5	-	ND	-
n-Octyl tin(MOT)	-	mg/kg	0.5	-	ND	-
Tributyl tin(TBT)	-	mg/kg	0.5	-	ND	-





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Test Item(s)	Limit	Unit(s)	MDL	A16	A17	A18
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	-	ND	-
Triphenyl tin(TPhT)	-	mg/kg	0.5	-	ND	-
Di-methyl tin(DMT)	-	mg/kg	0.5	-	ND	-
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A19	A20	A21
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND



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Shenzhen Branch Testing Center Hardlines

Room 101-501, Plant 4 & Room 101, Plant 2 & Room 101, Plant 3 & Room 301-501, Plant 3, Jianghao (Bantian) Industrial Plant Area, No.430, Jihua Road, Bantian Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129 www.sgs.com.cn  
中国·广东·深圳市龙岗区坂田街道坂田社区吉华路 430 号江灏 (坂田) 工业厂区厂房 4 号 101-901、2 号 101、3 号 101、3 号 301-501 邮编: 518129 t:(86-755) 253 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

# Test Report

No.: SZHL260300846301TY

Date: APR 01, 2026

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Test Item(s)	Limit	Unit(s)	MDL	A22	A23	A24
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A25	A26	A27
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A28	A29	A30
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND



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中国·广东·深圳市龙岗区坂田街道坂田社区吉华路 430 号江灏 (坂田) 工业厂区厂房 4 号 101-901、2 号 101、3 号 101、3 号 301-501 邮编: 518129 t:(86-755) 253 sgs.china@sgs.com

# Test Report

No.: SZHL260300846301TY

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Test Item(s)	Limit	Unit(s)	MDL	A28	A29	A30
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A31	A32	A33
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A34	A35	A36
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND



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Test Item(s)	Limit	Unit(s)	MDL	A34	A35	A36
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A39
Mass of trace amount	-	mg	-	/	/	/
Soluble Lead(Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony(Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic(As)	47	mg/kg	10	ND	ND	ND
Soluble Barium(Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium(Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium(III)(CrIII)	460	mg/kg	5	ND	ND	ND
Soluble Chromium(VI)(Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Mercury(Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium(Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron(B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt(Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese(Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium(Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc(Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper(Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum(Al)	28130	mg/kg	50	ND	ND	396
Soluble Nickel(Ni)	930	mg/kg	10	ND	ND	10
Soluble Tin(Sn)	180000	mg/kg	3.0	ND	ND	3.7
Soluble Organic Tin*	12	mg/kg	-	ND	ND	-
Sum of Soluble Organic Tin	12	mg/kg	-	-	-	4.0
Butyl tin(BuT)	-	mg/kg	0.5	-	-	ND
Dibutyl tin(DBT)	-	mg/kg	0.5	-	-	ND
Di-n-octyl tin(DOT)	-	mg/kg	0.5	-	-	ND
Diphenyl tin(DPhT)	-	mg/kg	0.5	-	-	ND
Di-n-Propyltin(DProT)	-	mg/kg	0.5	-	-	ND
Methyl tin(MeT)	-	mg/kg	0.5	-	-	0.6
n-Octyl tin(MOT)	-	mg/kg	0.5	-	-	ND
Tributyl tin(TBT)	-	mg/kg	0.5	-	-	ND
Tetrabutyl tin (TeBT)	-	mg/kg	0.5	-	-	ND
Triphenyl tin(TPhT)	-	mg/kg	0.5	-	-	ND
Di-methyl tin(DMT)	-	mg/kg	0.5	-	-	3.4



Test Item(s)	Limit	Unit(s)	MDL	A37	A38	A39
<b>Conclusion</b>				<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

**Remark:**

As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for migration of certain elements, as specified in BS EN 71-3:2019+A2:2024.

A40, A41

**Notes:**

(1) According to Chapter of 10.1.2 of BS EN 71-3:2019+ A2:2024, Chromium (III) is calculated by the following formula:

Soluble Chromium (III) = Soluble Total Chromium - Soluble Chromium (VI)

(2) \*Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in BS EN 71-3:2019+ A2:2024.

(3) /=Not Applicable

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 N/A(NA) = Not Applicable                      N/C(NC) = Not Conducted                      N/T(NT) = Not Tested  
 \*\* = Visual Examination                      SE = Self-Extinguishing                      IBE = Ignite But Self-Extinguished  
 SE within 50mm = Self-extinguished within 50 mm of flame application      DNI = Did Not Ignite
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### Sample Picture (As received)







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

