

Report No.: NB212603270019

Date: April 10, 2026

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Applicant: Shenzhen Wanzhichuan Technology Co., Ltd

Address: C612, Building C, Huafeng International Robot Industry Park, Hangcheng Avenue, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen

The following merchandise were submitted and identified by the clients as:

Product Description: Smart Drawing Robot
Model No.: Q01 ,Q02 ,Q03 ,Q05 ,Q06 ,Q07,Q08 ,Q09 ,Q10 ,Q11 ,DR01 ,DR02,Drawing Robot ,JY-01 ,JY-02 ,LJIA0002 , LJIA0003BW
Country of Origin: China
Manufacturer: Shenzhen Wanzhichuan Technology Co., Ltd
Manufacturer address: C612, Building C, Huafeng International Robot Industry Park, Hangcheng Avenue, Nanchang Community, Xixiang Street, Bao'an District, Shenzhen
Applicant's specified age group for testing: 3Y+
Testing Age Grading: For ages over 3 years
Labeled Age Group: 3+
Laboratory Evaluated age group: Over 3 years

The following information were confirmed by the laboratory:

Sample Receiving Date: March 27, 2026
Testing Period: From March 27, 2026 to April 10, 2026
Test Results: Please refer to next pages

Test Requested

Please refer to the next page

Signed for and on behalf of Guangdong NewBest Testing Service Co., Ltd.

Approved by:



Manager



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Summary of test results

Test Requested	Conclusion
Mechanical and Physical Properties - EN 71-1: 2014+A1: 2018, Safety of toys	PASS
Labeling requirement(Directive 2009/48/EC)	PASS
Flammability requirements - EN 71-2: 2020+A1:2025, Safety of toys	PASS
Migration of Certain Elements - EN 71-3:2019+A2:2024, Safety of toys	PASS
EN IEC 62115:2020+A11:2020 - Electric Toys - Safety	PASS

Test results:

Tested part(s) description:

Test Item(s)	Description
I001	Laminated multi-color printed white paper,card
I002	White plastic,plate
I003	Bright black plastic,pen
I004	Bright white plastic,pen
I005	Black ink,pen
I006	White fiber,pen
I007	Transparent plastic,box
I008	Silvery coating,pen
I009	Dark blue plastic,pen
I010	Light blue plastic,pen
I011	Dark green plastic,pen
I012	Light green plastic,pen
I013	Light yellow plastic,pen
I014	Orange plastic,pen
I015	Rose red plastic,pen
I016	Dark rose red plastic,pen
I017	Red plastic,pen
I018	Dark purple plastic,pen
I019	Brown plastic,pen
I020	Black plastic,pen
I021	Blue ink,pen
I022	Light blue ink,pen
I023	Green ink,pen

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Test results:

Tested part(s) description:

Test Item(s)	Description
I024	Light green ink,pen
I025	Yellow ink,pen
I026	Orange ink,pen
I027	Rose red ink,pen
I028	Dark rose red ink,pen
I029	Red ink,pen
I030	Purple ink,pen
I031	Brown ink,pen
I032	Blue coating,shell
I033	Sky blue plastic,shell
I034	Yellow plastic,shell
I035	Yellow soft plastic,button
I036	Black coating,eye
I037	White coating,eye
I038	Pink coating,face
I039	Gray soft plastic,bottom
I040	Black printed transparent plastic,sticker
I041	Blue plastic, shell
I042	Lake green plastic, shell
I043	White soft plastic,wire cover
I044	White soft plastic,small plug shell
I045	White soft plastic,large plug shell
I046	Lake blue plastic, shell
I047	Off white plastic, shell
I048	Matt gray plastic,holder
I049	Matt white plastic,holder
I050	Multi-color printed white paper,specification
I051	Snowy white plastic,shell
I052	Black soft plastic,button
I053	Matt black plastic,shell
I054	Transparent plastic, lens cover
I055	Matt pink plastic,shell
I056	Light pink plastic,shell
I057	Light pinkish plastic,circle
I058	Peach pink plastic,shell

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Test results:

Tested part(s) description:

Test Item(s)	Description
I059	Dark pink soft plastic,button
I060	Brown coating,eye
I061	Dark pink coating,eye
I062	Rose red coating,nose
I063	Dark pink plastic,shell
I064	Pinkish plastic,circle
I065	Dark pinkish plastic,shell
I066	Light rose red plastic,shell
I067	Purple soft plastic,button
I068	Purple plastic,circle
I069	Dark yellow plastic,button
I070	Blue coating,eye
I071	Dark blue coating,eye
I072	Yellow coating,nose
I073	Matt blue plastic,shell
I074	Matt light blue plastic,shell
I075	Laminated multi-color printed white paper,sticker
I076	Light yellow soft plastic,button
I077	Matt dark blue plastic,shell
I078	Matt yellow plastic,shell
I079	Matt bright yellow coating,shell
I080	Orange soft plastic,button
I081	Bright orange coating,shell
I082	Light orange plastic,shell
I083	Light bright yellow plastic,shell
I084	Bright yellow plastic,shell
I085	Dark bright yellow plastic,shell
I086	Dark orange plastic,button
I087	Orange coating,eye
I088	Dark orange coating,eye
I089	Lemon yellow coating,shell
I090	Blue soft plastic,button
I091	Lake blue coating,shell
I092	Milk white plastic,shell
I093	Pink soft plastic,button

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Test results:

Tested part(s) description:

Test Item(s)	Description
I094	Pink plastic,shell
I095	Gray plastic,shell
I096	Grayish purple plastic,shell
I097	Cyan coating,ear
I098	Light cyan coating,face
I099	Green plastic,shell
I100	Yellowish-green soft plastic,button
I101	Yellowish-green plastic,shell
I102	Light orange soft plastic,button
I103	Grass green plastic,shell
I104	Matt orange plastic,circle
I105	Light pink soft plastic,button
I106	Matt dark pink plastic,shell
I107	Light purple plastic,shell
I108	Light pink coating,shell
I109	Light orange coating,nose
I110	Black/white/grey coating, face

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The submitted samples were undergone the use and abuse tests in accordance with the EN 71-1: 2014+A1: 2018.

Testing Items	Parameter
Torque test	0.34Nm
Tension test	90N
Drop test	5 ×850mm
Impact test	1×1Kg×100mm

Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking
The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall 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.
2. Cleaning instruction
A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

Mechanical and Physical Properties - EN 71-1: 2014+A1: 2018, Safety of toys

Section	Testing Items	Assessment
4	General requirements	
4.1	Material cleanliness	M
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	M
4.8	Points and metallic wires	M
4.9	Protruding parts	N/A
4.10	Parts moving against each other (Exclude 4.10.1 Folding and sliding mechanisms)	M

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4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	M
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	M
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	N/A
5	Toys intended for children under 36 months	N/A
5.1	General requirements	N/A
5.1a	Small parts – as received	N/A
5.1b	Small parts, sharp points, sharp edges – after tests	N/A
5.1c	Cross section <2mm metal points & wires	N/A
5.1d	Large and bulky toys	N/A
5.1e	Glued wooden toys and toys with glued-on plastic decals	N/A
5.1f	The casing of toys	N/A
5.2	Soft-filled toys and soft-filled parts of toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibers	N/A
5.10	Small balls	N/A

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5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	N/A
	Warnings, markings and instructions for use	
7.1	General	M
7.2	Toys not intended for children under 36 months	M
7.3	Latex balloons	N/A
7.4	Aquatic toys	N/A
7.5	Functional toys	N/A
7.6	Hazardous sharp functional edges and points	N/A
7.7	Projectiles	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	N/A
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	N/A
7.12	Liquids-filled teethers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toy bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/electrical experimental sets	N/A
7.21	Toys with electrical cables exceeding 300mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A
7.23	Toys intended to be attached to a cradle, cot or perambulator	N/A
7.24	Sledges with cords for pulling	N/A
7.25	Flying toys	N/A
7.26	Improvised projectiles	N/A

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2009/48/EC General Labeling Requirement

Requirement	Result
CE Mark	M
Manufacturer/ Importer name and address	M
Product Identification	M

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client

Flammability requirements - EN 71-2: 2020+A1:2025, Safety of toys

Section	Testing Items	Assessment
4.1	General requirements	M
4.1	Cellulose nitrate	N/A
4.1	Highly flammable solids	M
4.1	Surface flash on a piled surface	N/A
4.1	Flammable gases,Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	N/A
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client

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Migration of Certain Elements - EN 71-3:2019+A2:2024 , Safety of toys

Test Method: EN 71-3:2019+A2:2024

Analyte	Unit	Requirement	MDL	Result				
		Category II		Test Item(s)				
				I005	I021	I022	I023	I024
Aluminium (Al)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	11.3	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	0.9	0.45	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	375	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	300	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	0.3	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	9.4	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.005	0.002	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	2.6	0.5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	156	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	0.5	0.25	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	300	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	1.9	0.5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	18.8	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	9.4	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	1125	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	3750	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	938	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category II		Test Item(s)				
				I025	I026	I027	I028	I029
Aluminium (Al)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	11.3	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	0.9	0.45	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	375	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	300	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	0.3	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	9.4	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.005	0.002	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	2.6	0.5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	156	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	0.5	0.25	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	300	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	1.9	0.5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	18.8	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	9.4	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	1125	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	3750	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	0.2	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	938	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result	
		Category II		Test Item(s)	
				I030	I031
Aluminium (Al)	mg/kg	560	5	N.D.	N.D.
Antimony (Sb)	mg/kg	11.3	5	N.D.	N.D.
Arsenic (As)	mg/kg	0.9	0.45	N.D.	N.D.
Barium (Ba)	mg/kg	375	5	N.D.	N.D.
Boron (B)	mg/kg	300	5	N.D.	N.D.
Cadmium (Cd)	mg/kg	0.3	0.1	N.D.	N.D.
Chromium III (Cr III)	mg/kg	9.4	0.2	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.005	0.002	N.D.	N.D.
Cobalt (Co)	mg/kg	2.6	0.5	N.D.	N.D.
Copper (Cu)	mg/kg	156	5	N.D.	N.D.
Lead (Pb)	mg/kg	0.5	0.25	N.D.	N.D.
Manganese (Mn)	mg/kg	300	5	N.D.	N.D.
Mercury (Hg)	mg/kg	1.9	0.5	N.D.	N.D.
Nickel (Ni)	mg/kg	18.8	5	N.D.	N.D.
Selenium (Se)	mg/kg	9.4	5	N.D.	N.D.
Strontium (Sr)	mg/kg	1125	5	N.D.	N.D.
Tin (Sn)	mg/kg	3750	0.1	N.D.	N.D.
Organic tin	mg/kg	0.2	0.1	N.D.	N.D.
Zinc (Zn)	mg/kg	938	5	N.D.	N.D.
Conclusion				PASS	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit

Remark: Organic tin test were conducted when soluble tin were determined. 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. Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation.

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Migration of Certain Elements - EN 71-3:2019+A2:2024 , Safety of toys

Test Method: EN 71-3:2019+A2:2024

Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I001	I002	I003	I004	I006
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Room 201, Room 401, Building 11, No.38 Dongke Road, Dongcheng Street, Dongguan City, Guangdong Province

Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I007	I008	I009	I010	I011
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I012	I013	I014	I015	I016
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I017	I018	I019	I020	I032
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
				Test Item(s)				
		Category III		I033	I034	I035	I036	I037
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
				Test Item(s)				
		Category III		I038	I039	I040	I041	I042
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I043	I044	I045	I046	I047
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
				Test Item(s)				
		Category III		I048	I049	I050	I051	I052
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I053	I054	I055	I056	I057
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I058	I059	I060	I061	I062
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
				Test Item(s)				
		Category III		I063	I064	I065	I066	I067
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I068	I069	I070	I071	I072
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I073	I074	I075	I076	I077
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
				Test Item(s)				
		Category III		I078	I079	I080	I081	I082
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
				Test Item(s)				
		Category III		I083	I084	I085	I086	I087
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I088	I089	I090	I091	I092
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I093	I094	I095	I096	I097
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I098	I099	I100	I101	I102
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result				
		Category III		Test Item(s)				
				I103	I104	I105	I106	I107
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result		
		Category III		Test Item(s)		
				I108	I109	I110
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.
Conclusion				PASS	PASS	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit

Remark: Organic tin test were conducted when soluble tin were determinated. 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. Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation.

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EN IEC 62115:2020+A11:2020^s

Electric Toys - Safety

Clause	Description	Results	Verdict
5	General conditions for tests		PASS
--	General	Meet with the requirements	PASS
--	The tests are carried out in the order of the clauses. Tests are carried out on a single sample that shall withstand all the relevant tests. The cumulative stress resulting from repetitive tests on electronic circuits shall to be avoided. It may be necessary to replace components or to use additional samples. Additional samples may also be required for electric toys that are constructed for different supply voltages, for both AC and DC, different speeds and similar. The number of additional samples shall be kept to a minimum by an evaluation of the relevant circuits.		PASS
6	Criteria for reduced testing		Remake 3
7	Marking and instructions	Meet with the requirements	PASS
8	Power input	Not applicable	PASS.
--	The power consumed by electric toys supplied by a transformer or a power supply shall not exceed the rated power input by more than 20 %, where a power input is marked. Compliance is checked by measurement when the power input has stabilized and the electric toy has attained normal operating temperature with – all circuits that can operate simultaneously being in operation; --the electric toy being supplied at rated voltage; --the electric toy being operated under normal operation; all accessories being added.		PASS
9	Heating and abnormal operation		PASS
9.1	General		PASS
--	Electric toys shall not attain excessive temperatures in use and	Meet with the	PASS

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	<p>shall not malfunction in such a way as to cause any unintended operation that may impair safety.</p> <p>They shall be constructed so that the risk of fire, mechanical damage impairing safety or other hazards, as a result of careless use or failure of a component, is obviated as far as is practicable. Electric toys which have an electronic control shall be designed and manufactured in such a way that they operate safely even if the electronic control starts malfunctioning due to a failure of the electronic control or due to electromagnetic influence from an outside source. All electric toys are subjected to the tests of 9.3 to 9.5.</p> <p>Electric toys incorporating motors are also subjected to the test of 9.6.</p> <p>Electric toys using transformers, power supplies and electric toys using battery boxes are also subjected to the test of 9.7. Electric toys supplied with power from a USB connection are also subjected to the tests of 9.8.</p> <p>Electric toys incorporating electronic circuits are also subjected to the test of 9.9.</p> <p>All electric toys shall be tested under the conditions specified in 9.2.</p> <p>If a heating element or an intentionally weak part becomes permanently open-circuited, the relevant test is repeated on a second sample. This second test shall be terminated in the same mode unless the test is otherwise satisfactorily completed. Subsequent tests for electric toys where a heating element or an intentionally weak part becomes permanently open-circuited shall be completed on a new sample. Damage caused by a short-circuit that does not impair compliance with this standard is repaired before a further short-circuit is applied.</p> <p>If during the tests of 9.9 an electronic circuit prevents the hazardous conditions listed in 9.10 or dangerous malfunction, it shall additionally comply with Annex D. In this case, the electronic circuit is considered as a protective electronic circuit. Electric toys with an electronic off-mode or stand-by mode shall also comply with Annex D, if the electric toy can malfunction in such a way as</p>	<p>requirements</p>	
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	to cause any unintended operation that may impair safety. If more than one of the tests are applicable to the same electric toy, these tests are made consecutively after the electric toy has cooled down to room temperature. Unless otherwise specified, after the tests of 9.3 to 9.9 the electric toy shall comply with 9.10.		
10	Electric strength		PASS
10.1	Electric strength at operating temperature		PASS
--	The electric insulation of the electric toy at operating temperature shall be adequate.		PASS
--	Compliance is checked by the following test.		PASS
--	The electric toy is brought to operating temperature and the insulation is immediately subjected to a voltage having a frequency of 50 Hz or 60 Hz for 1 min, in accordance with IEC 61180. The test voltage is 250 V.		PASS
--	The high-voltage source used for the test is to be capable of supplying a short-circuit current (Is) between the output terminals after the output voltage has been adjusted to the appropriate test voltage. The overload release of the circuit is not to be operated by any current below the tripping current (Ir). The value of Is shall be 200 mA and the value of Ir shall be 100 mA.		PASS
--	The test voltage is applied between power input terminals, such as terminals in the battery compartment or power supply input connector terminals and accessible parts, non-metallic accessible parts being covered with metal foil.		PASS
--	Electric toys that are used with batteries are tested with the batteries removed. No breakdown shall occur		PASS
10.2	Electric strength under humid conditions		PASS
--	The electric insulation of the electric toy under humid conditions shall be adequate.		PASS
--	Compliance is checked by the following test.		PASS
--	Detachable parts are removed and subjected, if necessary, to the humidity test with the main part.		PASS
--	The humidity test is carried out for 48 h in a humidity cabinet containing air with a relative humidity of (93 ± 3)%. The temperature of the air is maintained within 2K of any convenient		PASS
	value t between 20°C and 30°C. Before being placed in the humidity cabinet, the electric toy is brought to a temperature of t°C		

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--	The electric toy is immediately subjected to a voltage having a frequency of 50 Hz or 60 Hz for 1 min, in accordance with IEC 61180. The test voltage is 250 V.		PASS
--	The high-voltage source used for the test is to be capable of supplying a short-circuit current (Is) between the output terminals after the output voltage has been adjusted to the appropriate test voltage. The overload release of the circuit is not to be operated by any current below the tripping current (Ir). The value of Is shall be 200 mA and the value of Ir shall be 100 mA.		PASS
--	The test voltage is applied between power input terminals, such as terminals in the battery compartment or power supply input connector terminals and accessible parts, non-metallic accessible parts being covered with metal foil. Electric toys that are used with batteries are tested with the batteries removed.		PASS
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid. Electric toys intended to be used in water, electric toys used with liquid and filled from a tap and electric toys likely to be cleaned with liquid shall have an enclosure providing the appropriate protection.	Not applicable	N.A.
12	Mechanical strength		PASS
12.1	Enclosures		PASS
--	Enclosures shall have adequate mechanical strength.	Meet with the requirements	PASS
12.2	Attachment strength		PASS
--	Non-detachable parts that prevent contact with moving parts or hot surfaces, or access to locations where explosion or fire could be initiated, shall be fixed in a reliable manner and shall withstand the mechanical stress occurring during normal use.	Meet with the requirements	PASS
13	Construction		PASS
13.1	Nominal supply voltage		PASS
--	The nominal supply voltage of electric toys shall not exceed 24 V.	Meet with the requirements	PASS
13.2	Transformers, power supplies and battery chargers		N.A.
13.2.1	Mains connections		N.A.
--	Battery chargers, transformers, power supplies and other parts connected to mains voltage supply shall not be an integral part of the electric toy.		N.A.
13.2.2	Electric toys for use in water or for use with liquids		N.A.

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--	Electric toys for use in water and electric toys for use with liquid shall not require a connection to a transformer, power supply or battery charger in order to work in the water or with the liquid.	Not applicable	N.A.
13.2.3	Electric toys for children under the age of 3 years		N.A.
--	Electric toys using transformers and power supplies shall not be intended for use by children under 3 years.		N.A.
13.3	Thermal cut-outs		N.A.
--	Non-self-resetting thermal cut-outs, necessary for compliance with this standard, shall only be resettable with the aid of a tool.	Not applicable	N.A.
13.4	Batteries		PASS
13.4.1	Small batteries		N.A.
--	Batteries that fit wholly within the small parts cylinder as specified in 5.2 of ISO 8124-1:2014 shall not be removable without the aid of a tool.		N.A.
--	For parts of electric toys that contain batteries if the part fits wholly within the small parts cylinder as specified in 5.2 of ISO 8124-1:2014, the part shall not be removable without the aid of a tool.		N.A.
13.4.2	Other batteries		PASS
--	Batteries shall not be removable without the aid of a tool unless the security of the battery compartment cover is adequate.		PASS
13.4.3	Electrolyte leakage		N.A.
--	Rechargeable batteries with liquid electrolyte shall not leak when the electric toy is placed in any position. The electrolyte shall not become accessible even if a tool has to be used to remove covers or similar parts.		N.A.
13.4.4	Electric toys placed above a child		N.A.
--	Electric toys that are used with batteries where the intended fixed position of the battery compartment can be above a child shall have a battery compartment that prevents battery electrolyte	Not applicable	N.A.
	leakage from the electric toy. The requirement does not apply to electric toys using batteries where the total volume of all batteries is less than 100 mm ³ .		
13.4.5	Parallel connection of batteries		N.A.
--	Batteries shall not be connected in parallel unless -- the reverse insertion of batteries, -- unbalanced discharging, or -- unbalanced charging does not impair compliance with this standard.	Not applicable	N.A.

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13.4.6	Battery compartment fasteners		PASS
--	If screws or similar fasteners are used to secure a door or cover providing access to the battery compartment, the screw or similar fastener shall be captive to ensure that they remain with the door, cover or equipment.		PASS
13.5	Plug and sockets		PASS
--	Plugs and socket-outlets of electric toys shall not be interchangeable with plugs and socket outlets listed in IEC TR 60083. This requirement is not applicable to plugs which are too large to be introduced into the mains socket outlets or that are too small so they can only be loosely inserted and do not stay firmly in place in the socket outlet aperture while in contact with the supply mains. Connectors such as jack types, USB types, RCA phono types with a diameter or diagonal measurement between 3,75 mm and 5,25 mm and length greater than 7 mm are considered to fail this requirement. Electric toys shall not use wires without connectors.		PASS
13.6	Charging batteries		PASS
--	It shall be possible to charge secondary batteries inside the electric toy only if the following conditions are met -- connection to, or replacement with primary batteries shall not be possible; -- charging of other batteries or electric toys from the electric toy shall not be possible; -- connection of an incorrect polarity shall not be possible by constructions;		PASS
	-- the battery charger shall comply with 15.4; -- operation of the electric toy while charging shall not be possible unless the electric toy meets the requirements for electric toys using a transformer or a power supply and the transformer or power supply complies with 15.3; -- electric toys for children under 3 years cannot operate while being charged. Mobile electric toys shall not move during charging.		
13.7	Series motors		PASS
--	Electric toys shall not incorporate series motors having a power input exceeding 20 W.		PASS
13.8	Working voltage		N.A.

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--	<p>Internal parts of an electric toy having a working voltage exceeding 24 V shall not lead to any risk of harmful electric shock. In all conditions of test, the following values shall be met:</p> <ul style="list-style-type: none"> -- the working voltage between any two parts of the electric toy shall not exceed 5 kV when the electric toy is supplied at rated voltage; -- the maximum current from a circuit with a generated voltage exceeding 24 V shall be less than 2 mA for DC and the peak value shall not exceed 0,7 mA for AC; -- the capacitance of a circuit with a generated voltage exceeding 24 V and up to and including 450 V shall be less than 0,1 μ F; -- the discharge from circuits with a generated voltage exceeding 450 V and up to and including 5 kV shall not exceed 45 μ C. <p>Voltages and currents are measured between the relevant parts of the circuit and any pole of the supply source. The current is measured using the circuit in Figure 4 of IEC 60990:2016. Discharges are measured immediately after the interruption of the supply. The quantity of electricity in the discharge is measured using a resistor having a nominal non-inductive resistance of 2 000 W.</p>	Not applicable	N.A.
13.9	Electric toys connecting to other equipment		N.A.
--	Electric toys that can connect to class I equipment shall be safe when connected to that equipment in case of a fault in the equipment that the electric toy is connected to. Electric toys that	Not applicable	N.A.
	can connect to class I equipment shall comply with one of the following conditions: <ul style="list-style-type: none"> a) the electric toy shall include an instruction to advise that the electric toy shall only be connected to equipment of Class II or class III (see 7.4); or b) conductive parts of the electric toy electrically connected to class I equipment shall not be accessible in the electric toy and the insulation between such parts and accessible parts shall have a thickness of at least 1 mm and an adequate electric strength. 		
13.10	Speed limitation of ride-on electric toys	Not such part	N.A.
--	The maximum speed of ride-on electric toys shall not exceed the limit specified in 4.23 of ISO 8124-1:2014.		N.A.
14	Protection of cords and wires		PASS
14.1	Edges and moving parts		PASS

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--	Wireways shall be smooth and free from sharp edges. Cords and wires shall be protected so that they do not come into contact with burrs, cooling fins or similar edges that may cause damage to their insulation. Holes in metal through which cords and wires pass shall have smooth well-rounded surfaces or be provided with bushings. Cords and wires shall be effectively prevented from coming into contact with moving parts.		PASS
14.2	Fixed parts		N.A.
--	Bare wiring and heating elements shall be rigid and fixed so that during normal use clearances and creepage distances cannot be reduced below the values specified in Clause 17. Components shall comply with the safety requirements specified in the relevant IEC standards as far as they reasonably apply.		N.A.
15	Components		PASS
15.1.1	General		N.A.
--	Components shall comply with the safety requirements specified in the relevant IEC standards as far as they reasonably apply.	Not applicable	N.A.
15.1.2	Switches and automatic controls		N.A.
--	Switches and automatic controls carrying a current exceeding 3 A during the tests of 9.3 and 9.4 shall comply with Annex C.	Not applicable	N.A.
	However, if they have been separately tested and found to comply with IEC 61058-1 or IEC 60730-1 respectively under the conditions occurring in the electric toy and for the number of cycles specified in Annex C, they may be used without further tests.		
15.1.3	Other components		PASS

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--	<p>If components are marked with their operating characteristics, the conditions under which they are used in the electric toy shall be in accordance with these markings, unless otherwise specified.</p> <p>The testing of components that have to comply with other standards is, in general, carried out separately, according to the relevant standard.</p> <p>If the component is used within the limits of its marking, it is tested in accordance with the conditions occurring in the electric toy, the number of samples being that required by the relevant standard.</p> <p>When no IEC standard exists for the relevant component, when the component is not marked or is not used in accordance with its marking, it is tested under the conditions occurring in the electric toy. The number of samples is, in general, that required by a similar specification.</p>	Meet with the requirements	PASS
15.2	Prohibited components		PASS
--	<p>Electric toys shall not be fitted with</p> <ul style="list-style-type: none"> -- thermal cut-outs that can be reset by a soldering operation; -- mercury switches. 		PASS
15.3	Transformers and power supplies		N.A.
--	<p>Transformers and linear power supplies shall comply with IEC 61558-2-7.</p> <p>Switch mode power supplies shall comply with IEC 61558-2-7 and IEC 61558-2-16.</p> <p>A battery charger that supplies an electric toy is considered to be also a power supply.</p>	Not applicable	N.A.
15.4	Battery chargers		PASS
--	<p>Battery chargers supplied with an electric toy shall be battery chargers for use by children and shall comply with IEC 60335-2-29:2016 and AnnexAA of that standard.</p>		PASS
15.5	Batteries		N.A.
--	<p>Primary batteries supplied with electric toys shall comply with the relevant parts of the IEC 60086 series.</p>		N.A.
16	Screws and connections		PASS
16.1	Fixings		PASS

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--	<p>Fixings, the failure of which may impair compliance with this standard and electrical connections shall withstand the mechanical stresses occurring during play.</p> <p>Screws used for these purposes shall not be of metal that is soft or liable to creep, such as zinc or aluminium. If they are of insulating material they shall have a nominal diameter of at least 3 mm and they shall not be used for any electrical connection.</p> <p>Screws or rivets used for electrical connections shall affix to metal.</p>		PASS
16.2	Connections		N.A.
--	<p>Electrical connections carrying a current exceeding 0,5A shall be constructed so that contact pressure is not transmitted through insulating material that is liable to shrink or to distort unless there is sufficient resiliency in the metallic parts to compensate for any possible shrinkage or distortion of the insulating material.</p>	Not applicable	N.A.
17	Clearances and creepage distances		PASS
--	<p>Clearances and creepage distances of functional insulation shall not be less than 0,5 mm except when the electric toy meets the requirements of Clause 9 with this distance shortcircuited.</p> <p>However, for functional insulation on printed circuit boards, except at their edges, this distance may be reduced to 0,2 mm provided that the degree of pollution in the microenvironment in which the insulation is located is unlikely to exceed pollution degree 2 during normal use of the electric toy.</p> <p>Internal parts of electric toys that comply with 13.8 and have a voltage exceeding 24 V shall have clearance and creepage distances for functional insulation equal to or greater than the values in Table 18 of IEC 60335-1:2010 for pollution degree 2 except when the electric toy meets Clause 9 with this distance short-circuited.</p>		PASS
18	Resistance to heat and fire		PASS
18.1	Resistance to heat		N.A.
--	<p>External parts of non-metallic material enclosing electric parts, and parts of insulating material supporting electric parts, shall be sufficiently resistant to heat if the electric toy has a working voltage exceeding 12 V and a current exceeding 3 A.</p>		N.A.
18.2	Resistance to fire		PASS
18.2.1	General		PASS

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--	Parts of non-metallic material enclosing electric parts, and parts of insulating material supporting electric parts, shall be resistant to ignition and spread of fire. This requirement does not apply to decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate from inside the electric toy.		PASS
18.2.2	Non-metallic parts		PASS
--	Parts of non-metallic material are subjected to the glow-wire test of IEC 60695-2-11, which is carried out at 550°C. The glow-wire test is not carried out on parts of material classified at least HB40 according to IEC 60695-11-10, provided that the test sample was no thicker than the relevant part. Parts for which the glow-wire test cannot be carried out, such as those made of soft or foamy material, shall meet the requirements specified in ISO 9772 for category HBF material, the test sample being no thicker than the relevant part.		PASS
18.2.3	Insulating material		N.A.
--	Parts of insulating material supporting connections carrying a current exceeding 3A and having a working voltage exceeding 12 V, and parts of insulating material within a distance of 3 mm of such connections, are subjected to the glow-wire test of IEC 60695-2-11 at a temperature of 650°C. However, the glow-wire test is not carried out on parts of material classified as having a glow-wire ignition temperature according to IEC 60695-2-13 of at least 675°C, provided that the test sample was no thicker than the relevant part.	Not applicable	N.A.
*19	Radiation and similar hazards		N.A.
*19.1	General		N.A.
*--	Electric toys shall not emit harmful optical radiation or harmful electromagnetic radiation due to their operation in normal use.		N.A.
*19.2	Optical radiation		N.A.
*--	Electric toys incorporating lasers and or light emitting diodes (LED) or UV emitting lamps shall comply with Annex E		N.A.
*19.3	Other electromagnetic radiation		N.A.
*--	Measurements methods for electric toys with an integrated field source that may produce harmful electromagnetic radiation are given in Annex I.	Not applicable	N.A.
Annex E	Safety of electric toys incorporating optical radiation sources		N.A.
5	General conditions for tests		N.A.

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5.2	The tests of 19.E.2, 19.E.3 and 19.E.4 may be carried out on separate electric toys.		N.A.
5.3	The tests of 19.E.2, 19.E.3 and 19.E.4 are carried out before or after the preconditioning tests specified in 5.2, whichever is more unfavourable.		N.A.
5.6	The tests of 19.E.2, 19.E.3 and 19.E.4 are carried out using the worst case emission taking the electric toy's function into account.		N.A.
15	Components		N.A.
15.2	Electric toys for children under the age of 3 years shall not incorporate lasers.	Not applicable	N.A.
*19	Radiation, toxicity and similar hazards		N.A.
*19.2	Electric toys shall not present a radiation hazard. Electric toys incorporating LEDs shall comply with 19.E.2. Electric toys incorporating lasers shall comply with 19.E.3.	LED comply with 19.E.2	N.A.
*19.E.2	Light-emitting diodes (LEDs)		N.A.
*19.E.3	Lasers		N.A.
*19.E.4	UV-emitting lamps		N.A.

Remark:

- N.A. = Not Applicable.
- According to clause 6.2 of EN IEC 62115:2020+A11:2020, electric toys that comply with the tests of Clause 9, except 9.6 and 9.8, with any insulation between parts of different polarity short-circuited in turn 13.3, 13.7 and Clauses 8, 9 except 9.6 and 9.8, 10, 11, 17 and 18 are not applicable.
- According to clause 6.3 of EN IEC 62115:2020+A11:2020, Electric toys that meet both of the following criteria are considered to comply with The requirements of Clauses 9, 10 and 18 if they
 - are supplied by a power source supplying less than 15 W, and
 - have an over temperature or over current protection where the clearance between conductive parts of different polarity is at least 3,8 mm for any part of the circuit between the power source and the protection. In this case, the sample meets the requirement of option a) but not option b).
- According to clause 6.2 of EN IEC 62115:2020+A11:2020, Circuits where the only power source comprises three batteries or less that are of the following designations: R44/LR44、R41/LR41、LR1130、LR54, are considered to comply with the requirements of Clause 9, 10, 11, 17 and 18.
- According to the standard, instruction and other texts required by the standard should be written in the official language(s) of the country in which the product is to be sold.
- Electrical toys have to comply with standards of EN 71 requirement and Lasers and LEDs in toys shall meet the requirements for Class 1 lasers in accordance with EN 60825-1 class 1 classification. The product applied for has passed the optical radiation test and meets the requirements
- Components shall comply with the safety requirements specified in the relevant IEC standards as far as they reasonably apply as specified in clause 15.

Supplementary information:

N.A.

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Disclaimer Measurement Uncertainty:

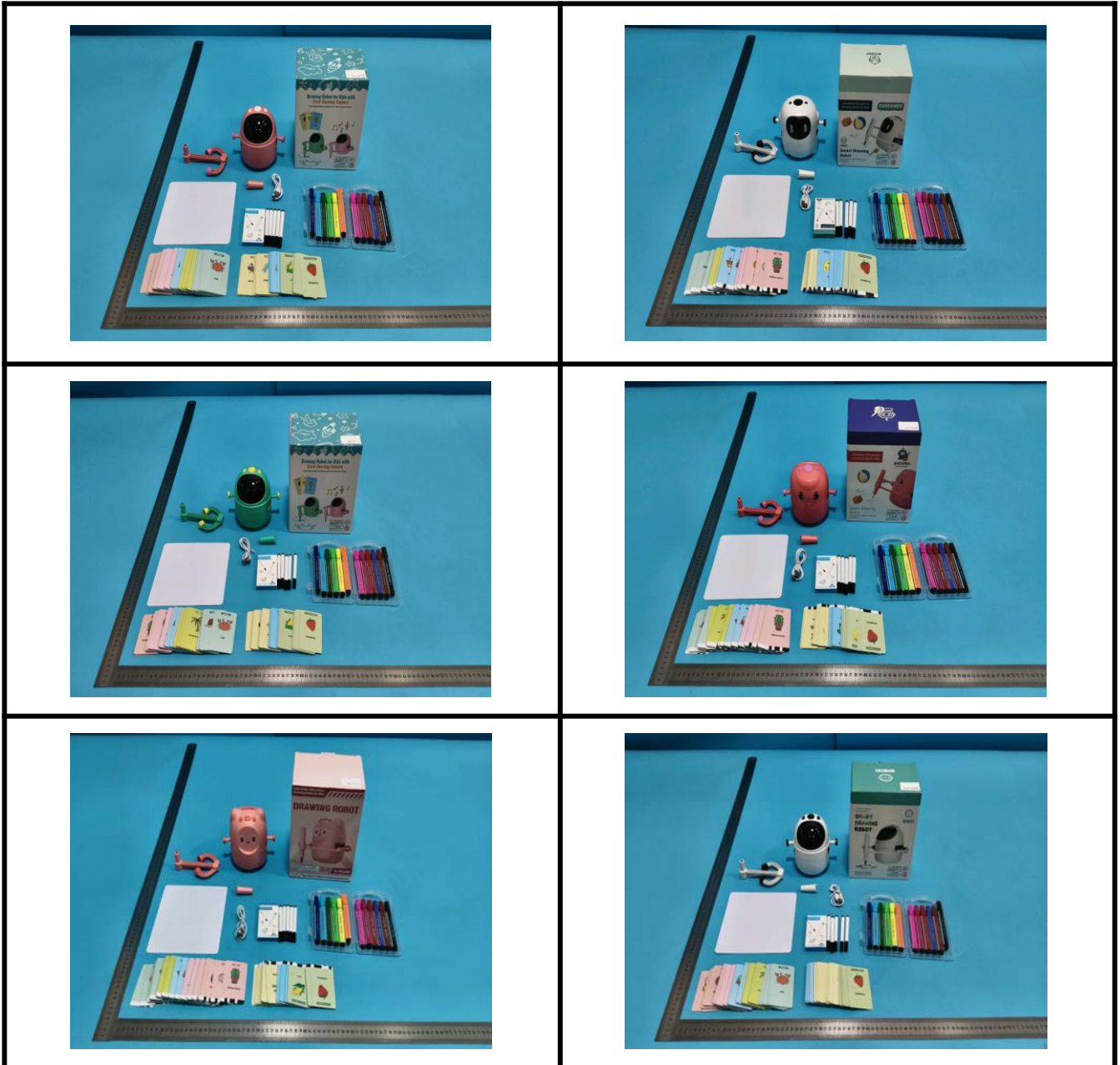
Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

Samples photograph



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