

Test Report	No.: T52010290286TY	Date: SEP 11, 2020
Mikail Aydin Belmique Grellkamp 62D	, 22415 Hamburg	

The results of this report are extracted from the test report number T52010290185TY-01 where the sample(s) /material(s) of sample is(are) claimed to be identical.

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

ACRYLIC PEN

Labeled Age Grading Requested Age Grading	:	RECOMMENDED FOR 3+ 3+
********	*****	********
Age Group Assessed by SGS As Per Age	:	OVER 3 YEARS
Guideline		
Age Group Applied in Testing	:	OVER 3 YEARS
Sample Receiving Date	:	SEP 03, 2020
Further Information Date	:	SEP 11, 2020
Testing Period	:	SEP 03, 2020 TO SEP 10, 2020



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Test	Requested	Conclusion
1.	For compliance with the European standard on Safety of toys:-	
	EN 71-1:2014+A1:2018 – Safety of toys – Part 1: Mechanical and Physical Properties	PASS
	EN 71-2:2011+A1:2014 – 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
	Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 – EN 71-3:2019 – Migration of certain elements (All conclusive testing)	PASS

Remark: The results of this report (except black pen) are extracted from the test report number T52010281354TY where the sample(s) /material(s) of sample is(are) claimed to be identical.

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

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

Liu Junjie, Tony Section Manager

Qu Ping, Kiky Dept. Manager





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Results:

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:

<u>Clause</u>	Description	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
7	Warnings, markings and instructions for use	
7.1	General Requirements	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 EN 71-1.	
7.2	Toys not intended for children under 36 months (Remark: The toy contains small part. It is acceptable because appropriate warning is found on packaging.)	<u>Pass</u> See Remark

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.



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1. 商工业网4师353人校 前端 516123 1 (60 100) 202000 1 (60 100) 2010100 0 59555 m 2858 g 5555



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EN 71-2:2011+A1:2014 - SAFETY OF TOYS - PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2011+A1:2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

Clause Description

4.1 General requirements

<u>Result</u> Pass

Type of gas: Butane gas used in the test burner

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	Present	Toy & Packaging
Manufacturer's Name & Address	Present	Toy & Packaging
Product ID	Present	Toy & Packaging

Note:

- 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.



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Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725 – EN 71-3:2019 – Migration of certain elements

Category II: Liquid or Sticky toy material

Method: With reference to EN 71-3:2019. Analysis of general elements was performed by ICP-MS. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by LC-ICP-MS and organic tin was analyzed by GC-MS.

Test Item(s)				Result(s)		MDL	Permissible Limit
Specimen No.			1	2	3		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(Al)	(mg/kg)	ND	ND	74	50	1406
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	1.0	11.3
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	0.4	0.9
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	375
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	300
Soluble Cadmium ((Cd)	(mg/kg)	ND	ND	ND	0.1	0.3
Soluble Chromium ⁺	(Cr)	(mg/kg)	0.303	0.145	0.201	0.015	
Soluble Chromium (III) (C	r (III))	(mg/kg)	ND	ND	ND	1.0	9.4
Soluble Chromium (VI) (C	r (VI))	(mg/kg)	ND	ND	ND	0.0025	0.005
Soluble Cobalt ((Co)	(mg/kg)	ND	ND	ND	0.5	2.6
Soluble Copper ((Cu)	(mg/kg)	ND	ND	ND	50	156
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	0.2	0.5
Soluble Manganese ((Mn)	(mg/kg)	ND	ND	ND	50	300
Soluble Mercury ((Hg)	(mg/kg)	ND	ND	ND	0.5	1.9
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	9	18.8
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	4	9.4
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	1125
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	0.03	3750
Soluble Organic Tin		(mg/kg)	ND	ND	ND		0.2
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	ND	50	938



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Test Item(s)				Result(s)		MDL	Permissible Limit
Specimen No.			4	5	6		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(Al)	(mg/kg)	ND	ND	ND	50	1406
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	1.0	11.3
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	0.4	0.9
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	375
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	300
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	0.1	0.3
Soluble Chromium ⁺	(Cr)	(mg/kg)	0.230	0.334	0.338	0.015	
Soluble Chromium (III) (0	Cr (III))	(mg/kg)	ND	ND	ND	1.0	9.4
Soluble Chromium (VI) (C	Cr (VI))	(mg/kg)	ND	ND	ND	0.0025	0.005
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	0.5	2.6
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	156
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	0.2	0.5
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	300
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	0.5	1.9
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	9	18.8
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	4	9.4
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	1125
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	0.03	3750
Soluble Organic Tin		(mg/kg)	ND	ND	ND		0.2
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	ND	50	938



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Test Item(s)				Result(s)	MDL	Permissible Limit	
Specimen No.			7	8	9		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(AI)	(mg/kg)	ND	ND	ND	50	1406
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	1.0	11.3
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	0.4	0.9
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	375
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	300
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	0.1	0.3
Soluble Chromium ⁺	(Cr)	(mg/kg)	0.296	0.261	0.172	0.015	
Soluble Chromium (III) (C	Cr (III))	(mg/kg)	ND	ND	ND	1.0	9.4
Soluble Chromium (VI) (C	Cr (VI))	(mg/kg)	ND	ND	ND	0.0025	0.005
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	0.5	2.6
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	156
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	0.2	0.5
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	300
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	0.5	1.9
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	9	18.8
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	4	9.4
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	1125
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	0.03	3750
Soluble Organic Tin		(mg/kg)	ND	ND	ND		0.2
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	ND	50	938



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Test Item(s)				Result(s)	MDL	Permissible Limit	
Specimen No.			10	11	12		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium ((AI)	(mg/kg)	104	ND	ND	50	1406
Soluble Antimony ((Sb)	(mg/kg)	ND	ND	ND	1.0	11.3
Soluble Arsenic ((As)	(mg/kg)	ND	ND	ND	0.4	0.9
Soluble Barium (Ba)	(mg/kg)	ND	55	ND	50	375
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	300
Soluble Cadmium (Cd)	(mg/kg)	ND	ND	ND	0.1	0.3
Soluble Chromium ⁺ ((Cr)	(mg/kg)	0.033	0.063	0.081	0.015	
Soluble Chromium (III) (C	r (III))	(mg/kg)	ND	ND	ND	1.0	9.4
Soluble Chromium (VI) (Ci	r (VI))	(mg/kg)	ND	ND	ND	0.0025	0.005
Soluble Cobalt (Co)	(mg/kg)	ND	ND	ND	0.5	2.6
Soluble Copper (Cu)	(mg/kg)	ND	ND	ND	50	156
Soluble Lead (Pb)	(mg/kg)	ND	ND	ND	0.2	0.5
Soluble Manganese (Mn)	(mg/kg)	ND	ND	ND	50	300
Soluble Mercury (Hg)	(mg/kg)	ND	ND	ND	0.5	1.9
Soluble Nickel ((Ni)	(mg/kg)	ND	ND	ND	9	18.8
Soluble Selenium (Se)	(mg/kg)	ND	ND	ND	4	9.4
Soluble Strontium ((Sr)	(mg/kg)	ND	ND	ND	50	1125
Soluble Tin ((Sn)	(mg/kg)	ND	ND	ND	0.03	3750
Soluble Organic Tin		(mg/kg)	ND	ND	ND		0.2
Soluble Zinc ((Zn)	(mg/kg)	ND	ND	ND	50	938



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Specimen Description:

- 1. Red ink
- 2. Yellow ink
- 3. Grey ink
- 4. Orange ink
- 5. Pink ink
- 6. White ink
- 7. Blue ink
- 8. Purple ink
- 9. Green ink
- 10. Golden ink
- 11. Brown ink
- 12. Black ink (Pen)

Note: - mg/kg = milligram per kilogram

- mg = milligram
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- 1% = 10000 mg/kg = 10000 ppm
- + Soluble Chromium is not restricted by EN 71-3:2019, results shown only for reference
- Result(s) of specimen No.1- No.12 is(are) calculated based on the status as received.
- Result(s) of specimen No.1- No.11 is(are) extracted from report No.T52010281354TY.



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Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019. Analysis of general elements was performed by ICP-OES. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis / LC-ICP-MS and organic tin was analyzed by GC-MS.

Test Item(s)		Result(s)	MDL	Permissible Limit			
Specimen No.			1	2	3		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(Al)	(mg/kg)	ND	ND	ND	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	ND	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	ND	50	46000



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Test Item(s)		Result(s)	MDL	Permissible Limit			
Specimen No.			4	5	6		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(Al)	(mg/kg)	ND	ND	ND	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺	(Cr)	(mg/kg)	ND	ND	ND	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	ND	50	46000



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Test Item(s)		Result(s)	MDL	Permissible Limit			
Specimen No.			7	8	9		
Mass of trace amount		(mg)	/	/	/		
Soluble Aluminium	(Al)	(mg/kg)	ND	ND	ND	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺	(Cr)	(mg/kg)	ND	0.74	ND	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	ND	50	46000



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Test Item(s)			Result(s)			MDL	Permissible Limit
Specimen No.			10	11	12		
Mass of trace amount		(mg)	/	/	23.4		
Soluble Aluminium	(Al)	(mg/kg)	ND	ND	2048	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	ND	5	17
Soluble Chromium ⁺	(Cr)	(mg/kg)	ND	ND	0.29	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	ND	50	46000



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Test Item(s)			Resu	ult(s)	MDL	Permissible Limit
Specimen No.			13	14		
Mass of trace amount		(mg)	/	/		
Soluble Aluminium	(Al)	(mg/kg)	ND	ND	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	5	17
Soluble Chromium ⁺	(Cr)	(mg/kg)	ND	ND	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	50	46000



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Test Item(s)			Res	ult(s)	MDL	Permissible Limit
Specimen No.			15	16		
Mass of trace amount		(mg)	56.1	/		
Soluble Aluminium	(Al)	(mg/kg)	ND	ND	50	70000
Soluble Antimony	(Sb)	(mg/kg)	ND	ND	10	560
Soluble Arsenic	(As)	(mg/kg)	ND	ND	10	47
Soluble Barium	(Ba)	(mg/kg)	ND	ND	50	18750
Soluble Boron	(B)	(mg/kg)	ND	ND	50	15000
Soluble Cadmium	(Cd)	(mg/kg)	ND	ND	5	17
Soluble Chromium+	(Cr)	(mg/kg)	ND	ND	0.15	
Soluble Chromium (III)	(Cr (III))	(mg/kg)	ND	ND	1	460
Soluble Chromium (VI)	(Cr (VI))	(mg/kg)	ND	ND	0.010	0.053
Soluble Cobalt	(Co)	(mg/kg)	ND	ND	10	130
Soluble Copper	(Cu)	(mg/kg)	ND	ND	50	7700
Soluble Lead	(Pb)	(mg/kg)	ND	ND	2.3	23
Soluble Manganese	(Mn)	(mg/kg)	ND	ND	50	15000
Soluble Mercury	(Hg)	(mg/kg)	ND	ND	10	94
Soluble Nickel	(Ni)	(mg/kg)	ND	ND	10	930
Soluble Selenium	(Se)	(mg/kg)	ND	ND	10	460
Soluble Strontium	(Sr)	(mg/kg)	ND	ND	50	56000
Soluble Tin	(Sn)	(mg/kg)	ND	ND	3.0	180000
Soluble Organic Tin		(mg/kg)	ND	ND		12
Soluble Zinc	(Zn)	(mg/kg)	ND	ND	50	46000



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Specimen Description:

- 1. Red plastic (Cap, nib holder)
- 2. Yellow plastic (Cap, nib holder)
- 3. Grey plastic (Cap, nib holder)
- 4. Orange plastic (Cap, nib holder)
- 5. Pink plastic (Cap, nib holder)
- 6. White plastic (Cap, nib holder)
- 7. Blue plastic (Cap, nib holder)
- 8. Purple plastic (Cap, nib holder)
- 9. Green plastic (Cap, nib holder)
- 10. Golden plastic (Cap, nib holder)
- 11. Brown plastic (Cap, nib holder)
- 12. White coating on metal (Barrel)
- 13. Black plastic (Cap)
- 14. Bright black plastic (Nib holder)
- 15. Yellow felt (Nib)
- 16. Laminated plastic label w/ multi-color printing (Sticker)
- Note: mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - + Soluble Chromium is not restricted by EN 71-3:2019, results shown only for reference
 - Result(s) of specimen No.1- No.12 is(are) extracted from report No.T52010281354TY.
- N.B.: Only applicable clauses were shown.



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- The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability(k=2), w = U95. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%. For Upper Tolerance Limit (T_U):

For Opper Tolerance Limit (T_0) .

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

Fail - when the measurement result is above $T_{U}\text{+}U_{95}$

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

For Lower Tolerance Limit (T_L) :

Pass - when the measurement result is above $T_{\rm L}\text{+}U_{\rm 95}$

Fail - when the measurement result is below T_L -U₉₅

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

Sample Photo:



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