

TEST REPORT

REPORT NUMBER : TURT150159085 _REVISED 01
APPLICANT NAME Hbk Balon Hasan Bülent Kaplangı
ADDRESS Çobançeşme Çalışlar Sok. No:21 Emek İş Hanı Bahçelievler/İstanbul
Fax No:0212 451 50 85
Attention : Hasan bülent kaplangil (bulent@hbkbalon.com)
BUYER NOT GIVEN
SAMPLE DESCRIPTION : 12 INCH İÇ MEKAN METALİK SERİSİ
Sample 1: One sample of 12 inch metallic white balloon
Sample 2: One sample of 12 inch metallic gold balloon
Sample 3: One sample of 12 inch metallic silver balloon
Sample 4: One sample of 12 inch metallic blue balloon
Sample 5: One sample of 12 inch metallic yellow balloon
Sample 6: One sample of 12 inch metallic violet balloon
Sample 7: One sample of 12 inch metallic red balloon
Sample 8: One sample of 12 inch metallic orange balloon
Sample 9: One sample of 12 inch metallic pink balloon
Sample 10: One sample of 12 inch metallic light blue balloon
Sample 11: One sample of 12 inch metallic light violet balloon
Sample 12: One sample of 12 inch metallic mixed balloon
Sample 13: One sample of 12 inch metallic ruby balloon
Sample 14: One sample of 12 inch metallic green balloon
Sample 15: One sample of 12 inch metallic light green balloon
Sample 16: One sample of 12 inch metallic navy balloon
Sample 17: One sample of 12 inch metallic cream balloon

DATE IN : 07 October, 2015 (13:30)
RESUBMIT DATE: 30 October, 2015
DATE OUT : 12 October,2015/ 02 November,2015

Melihat

Melihat YILDIRIM
COORDINATOR

Sinan ÖNCEL

Sinan ÖNCEL
Customer Care Manager



Intertek Test Hizmetleri A.S.
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<http://www.intertek-turkey.com>



150159085

Test Method	Result	Requirements
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COUNTRY OF ORIGIN : TURKEY

ITEM NO:

Sample 1: 6131
Sample 2: 6132
Sample 3: 6133
Sample 4: 6134
Sample 5: 6142
Sample 6: 6143
Sample 7: 6144
Sample 8: 6145
Sample 9: 6146
Sample 10: 6147
Sample 11: 6148
Sample 12: 6149
Sample 13: 6150
Sample 14: 6151
Sample 15: 6152
Sample 16: 6158
Sample 17: 6155

NOTE:

In this revised 01 report, Toxic Element Analysis test results sample 18&19&20&21&22&23&24&25&26&27&28&29&30&31&32&33&34&35&36&37&38&38&40 were removed and Toxic Element Analysis test results sample 1&2&3&4&5&6&7&8&9&10&11&12&13&14&15&16&17 were added by the request of the applicant.



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Test Method	Result						Requirements
TEST	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	
SAFETY OF TOYS-PART 1 MECHANICAL AND PHYSICAL PROPERTIES	P	P	P	P	P	P	
SAFETY OF TOYS-PART 2:FLAMMABILITY	P	P	P	P	P	P	
TOXIC ELEMENTS ANALYSIS	P	P	P	P	P	P	
TEST	Sample 7	Sample 8	Sample 9	Sample 10	Sample 11	Sample 12	
SAFETY OF TOYS-PART 1 MECHANICAL AND PHYSICAL PROPERTIES	P	P	P	P	P	P	
SAFETY OF TOYS-PART 2:FLAMMABILITY	P	P	P	P	P	P	
TOXIC ELEMENTS ANALYSIS	P	P	P	P	P	P	
TEST	Sample 13	Sample 14	Sample 15	Sample 16	Sample 17		
SAFETY OF TOYS-PART 1 MECHANICAL AND PHYSICAL PROPERTIES	P	P	P	P	P		
SAFETY OF TOYS-PART 2:FLAMMABILITY	P	P	P	P	P		
TOXIC ELEMENTS ANALYSIS	P	P	P	P	P		

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE/ LS : LACK OF SAMPLE

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The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 and TURKAK accreditation requirements. Unless otherwise is specified, all Pass or Fail results are given without uncertainty considered. When uncertainty is taken into account, the result may be borderline. Borderline results need to be re-tested to determine their disposition up to customer's decision. Opinions and interpretations expressed herein are outside the scope of TURKAK accreditation. Tests marked (*) in this test report are not included in the TURKAK accreditation schedule for this laboratory.

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Test Method	Result	Requirements
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This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

Specification: BS EN 71 – 1 : 2014– Safety of Toys – Specification for Mechanical and Physical Properties

The item was labelled "WARNING ! Children under 8 years can choke or suffocate on uninflated or broken balloons"
 The item was tested for children aged over 36 months.
 The item was packaging in a plastic bag which was considered to be disposable.

Sample 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17

SECTION	TEST	RESULTS
4	General Requirements	
4.1	Material	Pass
4.7	Edges	Pass
4.8	Points & Metallic Wires	Pass
4.12	Balloons	Pass
6	Packaging	
a)	Average sheet thickness	Pass
b)	Using drawstring or cords as a means of closing	Pass
7	Warning and Instruction for Use	##
7.2	Toys not intended for children under 36 months	Pass
7.3	Latex Baloons	Pass



Test Method	Result	Requirements
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The text of this note is for information only and the indents do not constitute requirements of this European Standard. The information is not exhaustive and Directive 2009/48/EC and the associated guidance documents should be consulted for further details.

The toy or, its packaging or document accompanying must be labelled with:

- The name and address of the manufacturer** **(Present)**
- The name and address of the and importer.** **(Not Present)**
- type, batch, serial or model number or other element allowing of toy identification **(Present)**
- The following advisory note: "Retain for future reference", if the information is not on the toy itself **(Present)**
- A CE mark in the correct shape. **(Present)**
- Warning and other information should be in the national language(s) of the countries where the toy is marketed.

** In the case of the toy sell in European countries, the toy, its packaging or document accompanying must be labelled with the name and address of the manufacturer and importer.



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Specification: BS EN 71 - 2 : 2011+ A1:2014 Safety of Toys – Flammability

Sample 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17

SECTION	TEST	RESULTS
4.1	General	
	Celluloid(cellulose nitrate) and materials with a same burning behaviour in fire	Pass



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 1

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	15.0 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	13.6 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	377.5 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

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Sample 2

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	1.9 ppm	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	7.5 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	4.9 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	158.2 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 3

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	5.2 ppm	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	1.1 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	1.1 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	101.7 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 4

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	2.2 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	1.0 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	423.8 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 5

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	3.9 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	1.3 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	304.7 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 6

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	1.6 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	0.6 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	74.4 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 7

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	9.3 ppm	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	12.5 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	11.6 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	332.2 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

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Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 8

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	1.0 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	0.9 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	180.2 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

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Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 9

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	2.7 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	1.2 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	474.9 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



Intertek Test Hizmetleri A.S.

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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 10

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	3.3 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	1.5 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	293.3 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample11

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	1.3 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	1.1 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	101.7 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

1-Dark purple

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	5.1 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	4.6 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	131.1 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

2-Turquoise

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	5.8 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	5.2 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	135.6 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

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Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

3-Orange

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	4.7 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	4.3 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	129.7 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

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Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

4-Yellow

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	4.2 ppm	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	4.3 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	4.0 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	144.4 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

5-Dark pink

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	4.1 ppm	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	4.7 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	3.8 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	140.7 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

6-Red

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	3.9 ppm	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	3.8 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	4.5 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	147.6 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

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Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

7-Lilac

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	2.7 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	2.2 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	284.6 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

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Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

8-Blue

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	2.9 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	2.8 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	283.7 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

9-Baby pink

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	3.3 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	1.8 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	280.7 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Toxic Elements Analysis

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Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

10-Green

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	9.5 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	6.0 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	106.6 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



Intertek Test Hizmetleri A.S.

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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

11-White

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	9.3 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	6.3 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	103.2 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

12-Light green

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	9.9 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	5.8 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	100.7 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 12

13-Dark green

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	6.5 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	5.7 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	185.6 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 13

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	2.1 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	1.0 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	584.2 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 14

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	9.5 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	6.0 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	106.6 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 15

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	6.0 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	2.4 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	311.6 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

BS EN 71-3:2013+A1:2014

Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 16

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	7.3 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	10.2 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	93.3 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm



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Test Method	Result	Requirements
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Toxic Elements Analysis

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Acid extraction method determined by Inductively Coupled Plasma – Mass Spectrometer (ICP / MS)

Sample 17

	<u>RESULT (ppm)</u>	<u>DETECTION LIMIT</u>	<u>PASS/FAIL</u>	<u>REQUIREMENT (ppm)</u>
Antimony (Sb)	Not Detected	<0.1 ppm	PASS	560
Arsenic (As)	Not Detected	<0.1 ppm	PASS	47
Barium (Ba)	Not Detected	<1 ppm	PASS	18750
Cadmium (Cd)	Not Detected	<0.1 ppm	PASS	17
Chromium (III)	Not Detected	<0.1 ppm	PASS	460
Chromium (VI)	Not Detected	0.1 ppm	PASS	0.2
Lead (Pb)	Not Detected	<0.1 ppm	PASS	160
Mercury (Hg)	Not Detected	<0.01 ppm	PASS	94
Selenium (Se)	Not Detected	<0.1 ppm	PASS	460
Aluminium (Al)	8.9 ppm	<1 ppm	PASS	70000
Boron (B)	Not Detected	<1 ppm	PASS	15000
Cobalt (Co)	Not Detected	<1 ppm	PASS	130
Copper (Cu)	Not Detected	<1 ppm	PASS	7700
Manganese (Mn)	Not Detected	<1 ppm	PASS	15000
Nickel (Ni)	Not Detected	<1 ppm	PASS	930
Strontium (Sr)	5.4 ppm	<0.1 ppm	PASS	56000
Tin (Sn)	Not Detected	<1.2 ppm	PASS	180000
Organic tin	Not Detected	<0.1 ppm	PASS	12
Zinc (Zn)	310.0 ppm	<1 ppm	PASS	46000

ppm (Part per million)

=mg / kg

<

=Less Than

ND

=Not Detected

Detection Limit

=Mercury (Hg): <0.01 ppm, Others metal: <0.1 ppm







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Test Method	Result	Requirements
		
		



Test Method	Result	Requirements
		
		



Test Method	Result	Requirements
		
		

Test Method	Result	Requirements
		
		



Test Method	Result	Requirements
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END OF TEST REPORT

