

# TEST REPORT

Applicant: VASEN INTERNATIONAL LIMITED  
FLAT 909-911 9/F KWONG SANG HONG CTR  
151-153 HOI BUN RD  
KWUN TONG KLN  
HK  
  
Attn: ZEN WONG

Number: HKGH02218708  
  
Date: Nov 24, 2017

Submitted sample said to be :  
Item Name : **(1) Float-bands 1-2yrs**  
  : **(2) Float-bands 2-6yrs**  
Ref. No. : **(1) SE-04**  
  : **(2) SE-05**  
Quantity : Six pairs each  
Buyer : Dunnes Stores  
Country of Origin : China



For and on behalf of :  
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung  
Vice President



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**Conclusion:**

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) EN71-1: 2014 - Mechanical and Physical Properties	Pass
(2) EN71-2 : 2011 + A1 : 2014 - Flammability Test	Pass
(3) EN71-3 : 2013 + A1:2014 - Migration of certain elements	Pass
EN71-3 : 2013 + A2:2017 - Migration of certain elements	Pass
(4) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 - Phthalates content	Pass
(5) EN 13138-1 : 2008 Buoyant aids for swimming instruction - Part 1 : Safety requirements and test methods for buoyant aids to be worn + Corrigendum June 2012	Pass

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(1) Physical and Mechanical Tests

Test Standard : European Standard on Safety of Toys EN71-1:2014

Age group for testing : For Ages Over 1 Year

The submitted samples were undergone the following abuse tests:	
<u>Clause</u>	<u>Testing Items</u>
8.3	Torque test ( 0.34 Nm )
8.4.2.1	Tension test ( 90 N )
8.5	Drop Test ( 850 mm x 5 )
8.7	Impact test (1 kg)
8.8	Compression test ( 110 N )

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	P
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	P
4.8	Points and Metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put into mouth	P
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	P
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	P



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Clause	Requirement	Assessment
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	#1

Abbreviation : P = Pass NA = Not Applicable

The submitted samples were undergone the abuse tests for Clause 5.1 in according to 8.3 (Torque test), 8.4 (Tension test), 8.5 (Drop test), 8.7 (Impact test), 8.8 (Compression test) and specific tests for different types of toys whichever applicable.

Remark(s):

#1 = The item examined is not a toy. Therefore, the warning and other requirements as specified in this clause do not apply.

Comment: The scope of the standard was not applicable to the submitted samples. Testing was conducted with reference to the test method and requirements as stated.

Date sample received : Nov 13, 2017

Test Period : Nov 13, 2017 to Nov 14, 2017

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(2) Flammability Test

Test Standard : European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014

Clause	Requirement	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Comment: The scope of the standard was not applicable to the submitted samples. Testing was conducted with reference to the test method and requirements as stated.

Date sample received : Nov 13, 2017

Test Period : Nov 13, 2017 to Nov 14, 2017

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(3) 19 Toxic Element Migration Test

Test Method : Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and/or Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III) ++	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test results were marked with "^" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

Organic tin test result was expressed as tributyl tin.

The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] was quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.

Tested Components:

- (1) Dark blue coating on plastic (body).
- (2) Yellow plastic (body).
- (3) Transparent plastic (valve).

Date sample received : Nov 13, 2017  
 Test Period : Nov 13, 2017 to Nov 14, 2017

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# TEST REPORT

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(4) Phthalate Content Test

Test Method : EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compound	Result (% , w/w)		Limit (% , w/w)
	(1)	(2/3)	
Dibutyl phthalate (DBP)	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	0.02	<0.01	--
Sum of DBP,DEHP & BBP	0.02	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	--
Sum of DINP,DnOP & DIDP	<0.01	<0.01	0.1

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 for phthalate content in toys and childcare articles.

Tested Components:

- (1) Dark blue coating on plastic (body).
- (2) Yellow plastic (body).
- (3) Transparent plastic (valve).

Date sample received : Nov 13, 2017

Test Period : Nov 13, 2017 to Nov 15, 2017

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# TEST REPORT

Number : HKGH02218708

(5) Safety Requirements for Buoyant Aids to be Worn

Test standard: EN 13138 - 1 : 2008 - Buoyant aids for swimming instruction - Part 1 : Safety requirements and test methods for buoyant aids to be worn + Corrigendum June 2012.

Number of samples tested : Three (3) pairs per style; Total : Two (2) styles.

Type of swimming aids: Armband

Intended age group as specified in the packaging :  
 1-2 years (up to 15 kg)  
 2-6 years (15 - 25 kg)

Note:

CE marking is not specified in EN 13138-1 but per 89/686/EEC, Article 13, the marking shall be affixed to the flotation device so as to be visible, legible and indelible throughout the expected life of the product. The format of this CE marking was given in the Annex IV of the captioned directive.

It was found that the CE marking was provided on the flotation device.

Clause	Requirement	Result
5.1	General	P
5.2	Buoyancy	
5.2.1	Buoyancy characteristics of the complete device	P
5.2.2	Residual buoyancy	P
5.3	Fit and positioning	
5.3.1	Adjustability – class B devices	P
5.3.2	Buckles, zippers and other fixings	NA
5.3.3	Retention of function	P
5.4	Safe design	
5.4.1	Edges, corners and points	P
5.4.2	Small parts	P
5.4.3	Migration of certain elements (EN 71-3)	P
5.5	Entire assembly and components	
5.5.1	Integrity of the entire assembly of worn devices	P
5.5.2	Thread	NA
5.5.3	Valves and stoppers	P
5.6	Materials – mechanical properties	
5.6.1	Seam strength and durability of inflatable devices	P
5.6.2	Resistance to puncturing	P
5.6.3	Resistance of foam and other inherent buoyant material to water absorption	NA
5.6.4	Resistance of foam and other inherent buoyant materials to compression	NA





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Clause	Requirement	Result
5.7	Materials and markings – Chemical properties	
5.7.2	Resistance to chlorinated salt water	P
5.7.3	Resistance of markings to saliva	P
5.7.4	Resistance of markings to perspiration	P
5.7.5	Adhesion of markings	P
7	Warnings and markings	
7.1	General	P
7.2	Warnings and markings on the product	P
7.3	Information supplied by the manufacturer	P
7.4	Consumer information at the point of sale	P

Abbreviation : P = Pass; NA = Not Applicable

Test data:

Clause 5.2.1 Buoyancy characteristics of the complete device

The buoyancy of the submitted samples was measured and recorded as follow:

Style	Measured buoyancy for Armband (Per pair)
1-2 years (Up to 15 kg)	24.2 N
2-6 years (15 - 25 kg)	33.8 N

Requirement:

The device shall have minimum buoyancy according with following table:

Category of user		Minimum buoyancy for Armband (Per pair)
Age years	Mass range (kg)	
Up to 1	Up to 11	20 N
1 - 2	11 - 15	20 N
2 - 3	15 - 18	25 N
3 - 6	18 - 30	25 N
6 - 12	30 - 60	30 N

Clause 5.2.2 Residual buoyancy

The residual buoyancy of the component was measured and recorded as follow:

Style	Original Buoyancy	Deflated Chamber #1	Deflated Chamber #2
1-2 years (Up to 15 kg)	12.1 N	6.3 N	5.8 N
2-6 years (15 - 25 kg)	16.9 N	9.2 N	7.7 N

- (6) Requirement The residual buoyancy, after complete deflation of one chamber of the component under test shall be within the limit of (50 ± 10) % of the original buoyancy of the component when fully inflated.

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### Clause 5.5.3 Valves and stoppers

The loss of buoyancy was measured and recorded as 0.86%

Requirement: The non-return valve shall ensure that, with an opened stopper, shall retain at least 75% of their original buoyancy after 2 minutes.

### Clause 5.7.2 Resistance to chlorinated salt water

The change in color of the marking on grey scale of the submitted sample was observed and recorded as follow after the test:

Gray scale	Requirement:
4.5	≥3

### Clause 5.7.3 Resistance of marking to saliva

The change in color of the marking on grey scale of the submitted sample was observed and recorded as follow after the test :

Gray scale	Requirement:
4.5	≥3

### Clause 5.7.4 Resistance of markings to perspiration

The change in color of the marking on grey scale of the submitted sample was observed and recorded as follow after the test:

Gray scale	Requirement:
4.5	≥3

Date sample received : Nov 13, 2017

Testing period : Nov 13, 2017 to Nov 22, 2017

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End of report

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