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TEST REPORT

APPLICANT Xindao B.V.

ADDRESS P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

SAMPLE DESCRIPTION Basic Universal Sport Armband

ITEM NO. P320.18

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION Europe

SAMPLE RECEIVED DATE 23-Sep-2015

TURN AROUND TIME 23-Sep-2015 to 29-Sep-2015, 5 Working Days

The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Formaldehyde Content	ISO 14184-1:2011	See Test Result (On Selected)
Total Cadmium Content	REACH Annex XVII, Entry 23	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	REACH Annex XVII, Entry 50	Pass
Banned AZO Dyes	REACH Annex XVII, Entry 43	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	German GS Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)	Pass

Eurofins (Shanghai) contact information

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

Signed for and on behalf of Eurofins Product Testing Service (Shanghai) Co., Ltd

Terric Ji Lab Manager

> Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to sh.info@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd.



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SAMPLE PHOTO



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COMPONENT LIST

Component No.	Component
1	Transparent plastic sheet
2	Black plastic buckle
3	Black fabric body
4	Black binding fabric
5	Grey flash tape
6	Black tape on buckle
7	Black velcro



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Formaldehyde Content

Test Method: ISO 14184-1:2011, free and hydrolized formaldehyde (water extraction method).

Tested Item(s)	CAS No.	Unit	MDL	Result 3
Formaldehyde	50-00-0	mg/kg	16	ND

Remark:

mg/kg = milligram per kilogram MDL = method detection limit ND = Not detected, less than MDL

Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) No 835/2012 amending

entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN 1122:2001 Method B, EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996

Acid digestion/ microwave digestion method was used and total cadmium content was

determined by ICP-OES.

Tested Item(s)	Hnit	Unit Limit	MDL	Result				
	Oilit			1	2			
Total Cadmium(Cd)	%	0.01	0.0005	ND	ND			

Remark:

MDL = method detection limit ND = Not detected, less than MDL

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in Regulation (EU) 2015/326

amending entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: Solvent extraction and determination by Gas Chromatography Mass Spectrometry (GC-MS).

Tested Item(s)	CAS No.	Unit	Limit	MDL	Result		
rested item(s)	CAS NO.	Unit	LIIIII	MIDL	1	2	
For rubber or plastic will direct contact with skin and mouth.							
Benzo(a)anthracene	56-55-3	mg/kg	1	0.2	ND	ND	
Chrysene	218-01-9	mg/kg	1	0.2	ND	ND	
Benzo(b)fluoranthene	205-99-2	m a/l.a	4	0.0	ND	ND	
Benzo(j)fluoranthene	205-82-3	mg/kg	I	0.2	ND	ND	
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.2	ND	ND	
Benzo(a)pyrene	50-32-8	mg/kg	1	0.2	ND	ND	
Dibenzo(a,h)anthracene	53-70-3	mg/kg	1	0.2	ND	ND	
Benzo(e)pyrene	192-97-2	mg/kg	1	0.2	ND	ND	

Remark:

mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL



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Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No

1907/2006.

Test Method: EN 14362-1:2012, EN 14362-3:2012

5-60 mg/kg quantitative, >60 mg/kg semi quantitative

Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation

by High Performance Liquid Chromatographic Analysis (HPLC/DAD).

Tested Item(s)	CACNO	l lmi4	Limeit	MDI	Result
Tested Item(s)	CAS No.	Unit	Limit	MDL	3+4+5
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND
2-Naphthylamine	91-59-8	mg/kg	30	5	ND
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND
4-Chloroaniline	106-47-8	mg/kg	30	5	ND
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND
3,3'-Dimethyl-4,4'- diaminadiphenylmethane	838-88-0	mg/kg	30	5	ND
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND
o-Tolidine	95-53-4	mg/kg	30	5	ND
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND
o-Anisidine	90-04-0	mg/kg	30	5	ND
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	ND

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Note 1: o-Aminoazotoluene(CAS No.:97-56-3) is been reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this.

Note 2: 5-Nitro-o-toluidine(CAS No.:99-55-8) is been reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.

Note 3: 4-Amino-azobenzene(CAS No.:60-09-3) is detected as aniline. Need further confirmation when aniline is detected.



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TEST RESULT

Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No

1907/2006.

Test Method: EN 14362-1:2012

5-60 mg/kg quantitative, >60 mg/kg semi quantitative

Determination by Gas Chromatography-Mass Selective Detection (GC-MSD) and Confirmation

by High Performance Liquid Chromatographic Analysis (HPLC/DAD).

Tooted Item(s)	CAS No.	Unit	Limit	MDL	Result		
Tested Item(s)	CAS NO.	Unit			6	7	
4-Aminobiphenyl	92-67-1	mg/kg	30	5	ND	ND	
4,4'-Benzidine	92-87-5	mg/kg	30	5	ND	ND	
4-Chloro-2-methylaniline	95-69-2	mg/kg	30	5	ND	ND	
2-Naphthylamine	91-59-8	mg/kg	30	5	ND	ND	
o-Aminoazotoluene (Note 1)	97-56-3	mg/kg	30	5	ND	ND	
5-Nitro-o-toluidine (Note 2)	99-55-8	mg/kg	30	5	ND	ND	
4-Chloroaniline	106-47-8	mg/kg	30	5	ND	ND	
4-Methoxy-1,3-phenylenediamine	615-05-4	mg/kg	30	5	ND	ND	
Bis-(4-aminophenyl)methane	101-77-9	mg/kg	30	5	ND	ND	
3,3'-Dichlorobenzidine	91-94-1	mg/kg	30	5	ND	ND	
3,3'-Dimethoxybenzidine	119-90-4	mg/kg	30	5	ND	ND	
3,3'-Dimethylbenzidine	119-93-7	mg/kg	30	5	ND	ND	
3,3'-Dimethyl-4,4'- diaminadiphenylmethane	838-88-0	mg/kg	30	5	ND	ND	
2-Methoxy-5-methylaniline	120-71-8	mg/kg	30	5	ND	ND	
4,4'-Methylene bis(o-chloroaniline)	101-14-4	mg/kg	30	5	ND	ND	
4,4'-Oxydianiline	101-80-4	mg/kg	30	5	ND	ND	
4,4'-Thiodianiline	139-65-1	mg/kg	30	5	ND	ND	
o-Tolidine	95-53-4	mg/kg	30	5	ND	ND	
2,4-Diaminotoluene	95-80-7	mg/kg	30	5	ND	ND	
2,4,5-Trimethylaniline	137-17-7	mg/kg	30	5	ND	ND	
o-Anisidine	90-04-0	mg/kg	30	5	ND	ND	
4-Amino-azobenzene (Note 3)	60-09-3	mg/kg	30	5	ND	ND	

Remark:

MDL = method detection limit

ND = Not detected, less than MDL

Note 1: o-Aminoazotoluene(CAS No.:97-56-3) is been reduced to o-Toluidine(CAS No.:95-53-4) and quantified by this

Note 2: 5-Nitro-o-toluidine(CAS No.:99-55-8) is been reduced to 4-Methyl-m-phenylene Diamine (CAS No.:95-80-7) and quantified by this.

Note 3: 4-Amino-azobenzene(CAS No.:60-09-3) is detected as aniline. Need further confirmation when aniline is detected.



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TEST RESULT

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: 18 Polycyclic Aromatic Hydrocarbons in polymers (PAHs) according to German GS

Specification document: AfPS GS 2014:01 PAK (PAK=PAHs)

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection

(GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement

Requirement: AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive

2009/48/EC and Other products under ProdSG, see table 1 on next page(s):

Parameter	CAS No.	Unit	Result		
		Unit	1	2	
Benzo(a)pyrene	50-32-8	mg/kg	ND	ND	
Benzo(e)pyrene	192-97-2	mg/kg	ND	ND	
Benzo(a)anthracene	56-55-3	mg/kg	ND	ND	
Benzo(b)fluoranthene	205-99-2	mg/kg	ND	ND	
Benzo(j)fluoranthene	205-82-3	mg/kg	ND	ND	
Benzo(k)fluoranthene	207-08-9	mg/kg	ND	ND	
Chrysene	218-01-9	mg/kg	ND	ND	
Dibenzo(a,h)anthracene	53-70-3	mg/kg	ND	ND	
Benzo(ghi)perylene	191-24-2	mg/kg	ND	ND	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	ND	ND	
Sum of Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	-	mg/kg	0.646	ND	
Naphthalene	91-20-3	mg/kg	0.381	ND	
Sum 18 PAHs	-	mg/kg	1.03	ND	
Summary to above mentioned requirement:	For Category 2 (Other products und	der ProdSG)	Pass	Pass	

Remark:

mg/kg = milligram per kilogram
ND = not detected, less than 0.2 mg/kg



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Table 1

AfPS GS 2014:01 PAK (PAK=PAHs) requirement: Limits for PAHs in Toys under Directive 2009/48/EC and Other products under ProdSG.

Parameter	Unit	Category 1 Materials indented to be put in the mouth, or materials of toys for children with foreseeable skin contact for longer than 30 seconds (long-term skin contact)	Category 1, was foreseeable so for longer that seconds (long contact) or shape the human skeep title burners.	covered by with skin contact in 30 g-term skin nort-term itact with	Category 3 Materials not covered by category 1 or 2 with foreseeable skin contact up to 30 seconds (short term skin contact)		
		-	Toys under Directive 2009/48/EC Other products under ProdSG		Toys under Directive 2009/48/EC	Other products under ProdSG	
Benzo(a)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
Benzo(e)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
Benzo(a)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
Benzo(b)fluoranthene	mg/kg	<0.2	<0.2 <0.5		<0.5	<1	
Benzo(j)fluoranthene	mg/kg	<0.2	<0.2 <0.5		<0.5	<1	
Benzo(k)fluoranthene	mg/kg	<0.2	<0.2 <0.5		<0.5	<1	
Chrysene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
Dibenzo(a,h)anthracene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
Benzo(ghi)perylene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
Indeno(1,2,3-cd)pyrene	mg/kg	<0.2	<0.2	<0.5	<0.5	<1	
Acenaphthene, Acenaphthylene, Fluorene, Phenanthrene, Pyrene, Anthracene, Fluoranthene	mg/kg	<1 Sum*	<5 Sum*	<10 Sum*	<20 Sum*	<50 Sum*	
Naphthalene	mg/kg	<1	<	2	<10)	
Sum* 18 PAHs	mg/kg	<1	<5	<10	<20	<50	

^{* =} Only those PAH components are taken into account, which have been specified in the material over the 0.2 mg/kg.

*** END OF THE REPORT ***