

TEST REPORT

APPLICANT : Xindao B.V.

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

SAMPLE DESCRIPTION : Digital luggage scale

ITEM NO. : P820.30

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : Europe

SAMPLE RECEIVED DATE : 22-Feb-2017

SAMPLE RESUBMISSION DATE : 07-Mar-2017


TURN AROUND TIME : 07-Mar-2017 to 15-Mar-2017

TEST SPECIFICATION : EC Directive 2011/65/EU —The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — (RoHS)

CONCLUSION : Based on the analysis, the selected components of the submitted product do comply with RoHS requirement (2011/65/EU).

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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., LtdJoyce Liu
Lab Manager

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SAMPLE PHOTO**EFSH17020904-CG-01**

TO BE CONTINUED

COMPONENT PHOTO(S)



1



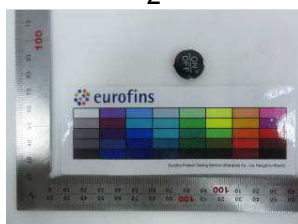
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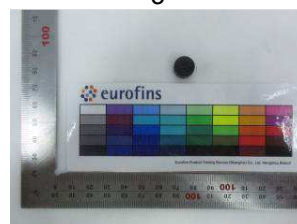
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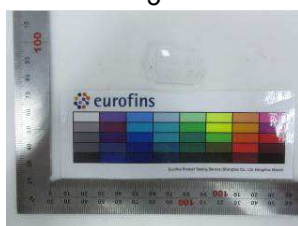
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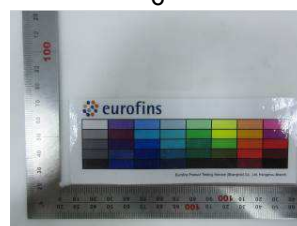
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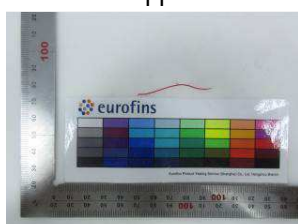
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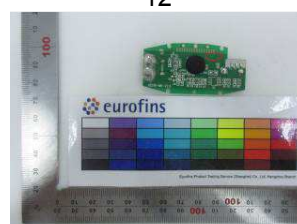
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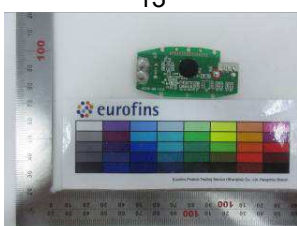
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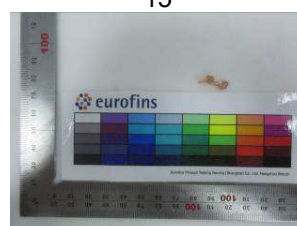
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TO BE CONTINUED

COMPONENT PHOTO(S)



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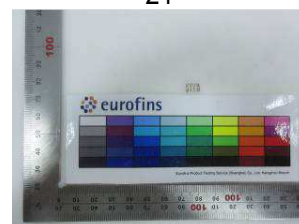
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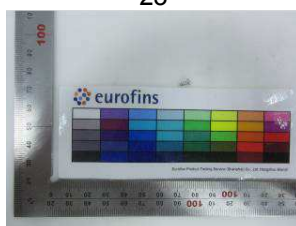
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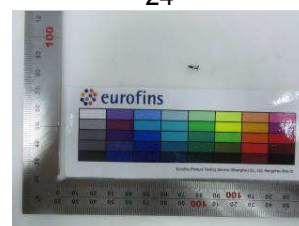
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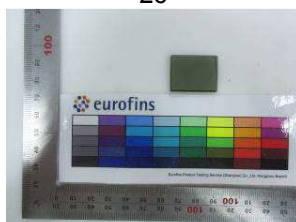
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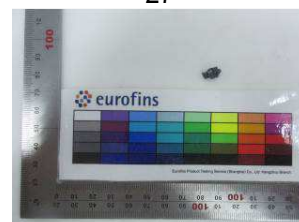
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TO BE CONTINUED

TEST RESULT

A. Screening Test by XRF Spectroscopy

As specified by client, to analyze the contents of Lead, Cadmium, Mercury, Chromium, Bromine in the submitted sample by XRF. Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Ed.1

No.	Component	Test Results (mg/kg)				
		Cd	Pb	Hg	Cr	Br
		Limit (mg/kg)				
		100	1000	1000	Cr(VI): 1000	PBB:1000 PBDE:1000
1	Black fabric	ND	ND	ND	ND	ND
2	Black plastic shell	ND	ND	ND	ND	ND
3	Black plastic block 1	ND	ND	ND	ND	ND
4	Black plastic block 2	ND	ND	ND	ND	ND
5	Black plastic block 3	ND	ND	ND	ND	ND
6	Black plastic block 4	ND	ND	ND	373	ND
7	Black plastic battery cover	10	145	ND	ND	NC
8	Transparent plastic block	ND	ND	ND	ND	ND
9	Transparent plastic sheet	ND	ND	ND	ND	ND
10	Black sponge block	ND	ND	ND	112	ND
11	Black rubber block	ND	ND	ND	ND	ND
12	Black rubber wire sheath	20	ND	ND	ND	ND
13	White rubber wire sheath	ND	ND	ND	303	ND
14	Red rubber wire sheath	ND	ND	ND	160	ND
15	Circuit board	ND	ND	ND	101	NC
16	Silver metal soldering tin	ND	ND	ND	NC	NA
17	Silver metal wire	ND	ND	ND	NC	NA
18	Copper metal wire	ND	ND	ND	NC	NA
19	Silver metal block 1	ND	ND	ND	NC	NA
20	Silver metal block 2	ND	ND	ND	NC	NA
21	Silver metal block 3	ND	ND	ND	NC	NA
22	Silver metal block 4	ND	ND	ND	NC	NA
23	Silver metal sheet	ND	ND	ND	NC	NA
24	Silver metal spring 1	ND	ND	ND	NC	NA
25	Silver metal spring 2	ND	ND	ND	NC	NA
26	Silver metal screw 1	ND	ND	ND	NC	NA
27	Silver metal screw 2	ND	ND	ND	NC	NA
28	White plastic sheet	ND	ND	ND	312	ND
29	Semi-transparent glass viewing screen	ND	ND	ND	ND	ND
30	Black magnet	ND	ND	ND	NC	NA

TO BE CONTINUED

TEST RESULT

Abbreviation:	Pb	denotes Lead
	Cd	denotes Cadmium
	Hg	denotes Mercury
	Cr	denotes Chromium
	Cr(VI)	denotes Chromium(VI)
	Br	denotes Bromine
	PBBs	denotes Total Polybrominated Biphenyls
	PBDEs	denotes Total Polybrominated Diphenyl Ethers
	NA	denotes Not Applicable
	ND	denotes Not Detected (Cd<10mg/kg, Pb/ Hg/ Cr<100mg/kg, Br<300mg/kg)
	NC	denotes Not Conclusive

XRF Screening limits for different materials:

Element	Polymers	Metals	Composite Material
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	/	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Note:

BL= Below limit

X = The region where further investigation is necessary

OL = Over limit

3σ = The repeatability of the analyzer at the action level

LOD = Limit of detection

XRF testing results are only used for reference.

TO BE CONTINUED

TEST RESULT

B. Confirmation Test by Wet Chemistry

Tested Item(s)	Test Method	Measured Equipment	MDL
Lead (Pb) /Cadmium (Cd)	IEC 62321-5:2013 Ed.1	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed.1	ICP-OES	2 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015 Ed.1	UV-Vis	0.01µg/cm ²
	IEC 62321:2008 Ed.1 Annex C		2 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6: 2015 Ed.1	GC-MS	50 mg/kg
Polybrominated DiphenylEthers (PBDEs)			

Component No.	Boiling-water-extraction for Cr(VI) (*1)
16	Negative
17	Negative
18	Negative
19	Negative
20	Negative
21	Negative
22	Negative
23	Negative
24	Negative
25	Negative
26	Negative
27	Negative
30	Negative

Remark:

(*1) The screening result of Chromium(VI) was found in the inconclusive region, Thus the Chromium(VI) content in surface layer have been confirmed with reference to IEC 62321-7-1:2015.

Negative - The Cr(VI) concentration is below 0.10µg/cm².The coating is considered a non-Cr(VI) based coating.

Component No.	Test Results (mg/kg)					
	Cd	Pb	Hg	Cr (VI)	PBBs	PBDEs
	Limit (mg/kg)					
	100	1000	1000	1000	1000	1000
7	-	-	-	-	ND	159
15	-	-	-	-	ND	ND

Note:

The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

MDL = method detection limit

ND = not detected (<MDL)

mg/kg = milligram per kilogram

µg/cm²= micrograms per square

*** END OF THE REPORT ***