

**XRF Screening and Chemical Confirmation Test Report**

Number: 170100776SHA-001(R1)

Applicant:

Date: Aug 11, 2017

**Sample Description:**

One (1) piece of submitted sample said to be  
 Item Name : **Electric Kettle**  
 Testing Model : PK-G916S  
 Reference Model : Refer to page 2



**Tests Conducted:**

As Requested By The Applicant, For Details Refer To Attached Page(S)

**Remark:**

This is to supersede report No. 170100776SHA-001 dated in Jan 25, 2017  
 The tested samples were confirmed by client and reference models were based on the self declaration supplied by clients.  
**Intertek** takes no responsibility for any issues of product consistency caused by inaccurate and/or invalid information submitted by the client.

**Conclusion:**

Tested sample	Standard	Result
Tested component of	Screening by XRF spectroscopy and chemical	Pass
Submitted sample	confirmation test for RoHS Directive 2011/65/EU.	

To be continued

Authorized By:

For Intertek Testing Services Ltd., Shanghai



Jonny Jing  
 Operation Manager



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Reference Model

: PK-1008, PK-3008, PK-C3012, PK-C3020, PK-C3016, PK-C3028, PK-C3027, PK-C3022, PK-C3029, PK-S1401, PK-S1406, PK-S1408, PK-1010, PK-1009, PK-1006, PK-3010, PK-3058, PK-3068, PK-G918, PK-G916, PK-G928, PK-G919, PK-G917, PK-1001, PK-1008, PK-3008, PK-C3012, PK-C3020, PK-C3016, PK-C3028, PK-C3027, PK-C3022, PK-C3029, PK-S1401, PK-S1402, PK-S1406, PK-S1408, PK-1010, PK-1009, PK-1006, PK-3010, PK-3058, PK-3068, PK-G918, PK-G916, PK-G928, PK-G912, PK-G918B, PK-G928B, PK-G917, PK-G917S, PK-G915, PK-G926

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## Tests Conducted

Determination of levels of regulated substances in electrotechnical products, elements of Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) contents were measured by XRF Spectroscopy and chemical confirmation test for RoHS restricted substances.

## (A) Results:

Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on Rohs
1	DECORATION ON COVER SWITCH (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
2	LID HANDLE (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
3	DECORATION ON COVER (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
4	COVER (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
5	SPRING (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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To be continued

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on Rohs
6	PUSH STICKER (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
7	SPRING (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	X	Negative	
			Br	NA	/	
8	LOCK (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
9	BOTTOM OF COVER (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
10	FILTER HOLDER (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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11	FILTER					
11-1	SUPPORT (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
11-2	NET (WHITE PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
12	BODY (CLEAR PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
13	HEAT ELEMENT					
13-1	BASE (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
13-2	HEAT TUBE (GRAY METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on Rohs
13-3	LEAD (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
13-4	CONTACTED SHEET (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
13-5	BLOCK (WHITE PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
14	LIGHTER CIRCLE (CLEAR PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
15	THE THERMOSTAT					
15-1	SCREW (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
15-2	BOARD (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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15-3	BOTTOM (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
15-4	GASKET (COPPER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
15-5	ELASTIC SHEET (COPPER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
15-6	RING (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
15-7	INNER RING (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
15-8	PIN (GOLD METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

To be continued

Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on Rohs
15-9	CONTACTED SHEET (GOLD METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
15-10	CONTACTED DOT (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
16	SCREW (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
17	BOTTOM (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
18	SCREW (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
19	BOTTOM DECORATION (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on Rohs
20	BASE (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
21	BASE DECORATION (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
22	CONNECTOR					
22-1	SCREW (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
22-2	ELASTIC SHEET (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
22-3	BODY (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBB=ND PBDE=ND	
23	BASE COVER (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on Rohs
24	SCREW (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	X	Negative	
			Br	NA	/	
25	POWER CORD					
25-1	SKIN (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
25-2	PLUG PIN (SILVER METAL)	/	Cd	P	/	PASS
			Pb	X	16400ppm#1	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
25-3	SUPPORT (WHITE PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBB=ND PBDE=ND	
25-4	ELASTIC SHEET (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
25-5	WIRE JACKET (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

To be continued

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on Rohs
25-6	WIRE JACKET (BROWN PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
25-7	WIRE JACKET (BLUE PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
25-8	WIRE JACKET (YELLOW PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
25-9	WIRE (COPPER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
25-10	COVER (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
25-11	HEAD (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

To be continued

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26	HANDLE (BLACK PALSTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
27	HANDLE COVER (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
28	THE THERMOSTAT					
28-1	BASE (BLACK PALSTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBB=ND PBDE=ND	
28-2	SHELL (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBB=ND PBDE=ND	
28-3	CONTACTED SHEET (GOLD METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
28-4	GASKET (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	

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To be continued

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Part No.	Tested Components	Refer information	Restricted Substance	XRF Result	Chemical Confirmation Result	Conclusion on Rohs
28-5	WIRE (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
29	SCREW (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	X	Negative	
			Br	NA	/	
30	BUTTON (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
31	STEAM TUBE (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
32	INNER WIRE					
32-1	PROTECT COVER (WHITE PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBB=ND PBDE=ND	
32-2	WIRE JACKET (WHITE PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

To be continued

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32-3	WIRE JACKET (WHITE PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
32-4	WIRE (SILVER METAL)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	NA	/	
32-5	SKIN (BLACK PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	
32-6	RESISTOR (GRAY PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	P	/	

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To be continued

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32-7	LED (CLEAR PLASTIC)	/	Cd	P	/	PASS
			Pb	P	/	
			Hg	P	/	
			Cr	P	/	
			Br	X	PBB=ND PBDE=ND	

Remark: P = Pass (Below the lower screening limit of table (B))

X = Inconclusive result (Further chemical test was suggested (see table (B).))

NA = Not applicable

ND = Not detected

ppm = Parts per million = mg/kg

µg/cm<sup>2</sup> = Microgram per square centimetre

Negative = A negative test result indicated the absorbance value of testing sample solution for Cr(VI) testing is less than the absorbance value of the 0.10µg/cm<sup>2</sup> equivalent comparison standard solution, the Cr(VI) concentration is below the limit of quantification, then the sample is considered to be negative for Cr(VI).

The related expanded uncertainty (U<sub>95</sub>) of the Lead (Pb) / Cadmium (Cd) test is 10%.

(#1) = As claimed by the declaration submitted by the client, the Lead content of the components is coming from the copper alloy, the limit for Lead is 40,000ppm.

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(B) XRF screening limits in mg/kg for regulated elements in various matrices.

Element	Polymer materials	Metallic materials	Composite materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < F$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$

(C) Estimated detection limits in mg/kg for regulated elements in various matrices.

Element	Polymer materials	Metallic materials	Composite materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

**Disclaimers :**

This XRF screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The results shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.

\*\*\*\*\*

To be continued

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## (D) Chemical confirmation test methods:

Testing Item	Testing Method	Reporting Limit
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved, and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved, and determined by ICP - OES	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 Edition 1.0:2013, by acid digestion until the tested sample was totally dissolved, and determined by ICP - OES	2 mg/kg
Chromium (VI)(Cr <sup>6+</sup> ) Content	With reference to IEC 62321 Edition 1.0:2008, by alkaline digestion and determined by UV-VIS Spectrophotometer	1 mg/kg
Chromium (VI) (Cr <sup>6+</sup> ) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS Spectrophotometer.	Positive(>0.13 g/cm <sup>2</sup> ) / Negative(<0.10 g/cm <sup>2</sup> ) / Inconclusive(0.10 g/cm <sup>2</sup> --0.13 g/cm <sup>2</sup> )
Polybrominated Biphenyls (PBBs)& Polybrominated Diphenyl Ethers (PBDEs) Content	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary.	5 mg/kg

## (E) RoHS requirement

Restricted substances	Limits
Cadmium (Cd)	0.01% (100 ppm)
Lead (Pb)	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Chromium (VI) (Cr <sup>6+</sup> )	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)

The above limits were quoted from RoHS Directive 2011/65/EU.

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Date sample received: Jan 17, 2017

Testing period: Jan 17, 2017 to Jan 25, 2017

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To be continued

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**Sample disassembling Photo(s)**



End of this report

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