

TEST REPORT

No.: ED170318025CEV1

Date: May 03, 2017

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- Applicant** : DONGRI ELECTRICAL EQUIPMENT CO.,LTD.
- Address** : CAODUN INDUSTRIAL AREA,GAOBU TOWN,DONGGUAN,CHINA
- Sample Name** : NAIL DRILL
- Style/Item No.** : DR-203
- Sample Received Date** : March 18, 2017
- Testing Completed Date** : May 03, 2017
- Test Requested** : As requested by client, to evaluate the compliance of the submitted sample with the Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
- Test Method** : 1. Review was performed for the sample and the related Bill of Material submitted by the Applicant.
2. a) To refer to the standard IEC 62321-3-1:2013: Screening by XRF Spectroscopy.
b) Wet chemical test
1) to refer to IEC 62321-5: 2013, determine the Cadmium, Lead content by ICP-OES.
2) to refer to IEC 62321-4: 2013, determine the Mercury content by ICP-OES.
3) to refer to IEC 62321:2008 Ed.1 & IEC 62321-7-1:2015, determine the Hexavalent Chromium content by UV-VIS.
4) to refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls and Polybrominated Diphenyl Ethers by GC-MS.
5) with reference to the standard IEC 62321-8 (111/321/CD), the analysis was performed by Gas Chromatography Mass Spectrometry (GC / MS).
- Test Results** : Please refer to next page (s).

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Conclusion:

Basing on the test results obtained from the homogenous materials, the submitted sample **COMPLIES** with the requirements stated in the Annex II of RoHS Directive 2011/65/EU.

Signed for and on behalf of
EMTEK (Dongguan) Co., Ltd.

Prepared by: _____

Kay
Kay Li
Report Engineer

Reviewed by: _____

Carrie
Carrie Zhang
Supervisor

Approved by: _____

Lainey Qin
Lainey Qin
Lab Director



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Test Results:

No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
1	Shell-silver metal with pink coating	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
2	Power socket-black hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
3	Power socket-pin-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
4	Power socket-electrode plate-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
5	Power socket-brown PCB	Pb	BL	PBBs:ND PBDEs:ND	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	X		
6	Axle-copper metal	Pb	OL	Pb:34673	As declared by client, the material should be exempted for lead content requirement according to Annex clause 6(c).
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		

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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
7	Axle-beige hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
8	Axle-bearing-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
9	Axle-gasket-black soft plastic	Pb	BL	NA	The XRF screening results for Pb, Cd, Hg, Cr and Br were obtained for the resubmitted sample on April 26, 2017.
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
10	Axle-gasket-black paper	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
11	Motor-driving wheel-white hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
12	Motor-shell-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		

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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
13	Motor-cover-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
14	Motor-cover-beige hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
15	Motor-cover-brush-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
16	Motor-bearing-copper metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
17	Motor-magnet-black solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
18	Motor-rotor-shaft-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		

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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
19	Motor-rotor-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
20	Motor-rotor-black solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
21	Motor-rotor-white hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
22	Motor-rotor-coil-copper metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
23	Wire-coat-black soft plastic	Pb	BL	NA	The XRF screening results for Pb, Cd, Hg, Cr and Br were obtained for the resubmitted sample on April 26, 2017.
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
24	Wire-rind-red soft plastic	Pb	BL	NA	The XRF screening results for Pb, Cd, Hg, Cr and Br were obtained for the resubmitted sample on April 26, 2017.
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		

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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
25	Wire-rind-black soft plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
26	Wire-core-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
27	Adapter-shell-black hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
28	Adapter-shell-label-silver soft plastic with black coating	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
29	Adapter-shell-black foam	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
30	Adapter-pin-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		

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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
31	Adapter-pin-solder-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
32	Adapter-yellow PCB with green coating	Pb	BL	PBBs:ND PBDEs:ND	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	X		
33	Adapter-PCB-SMD resistor	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
34	Adapter-PCB-SMD capacitor	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
35	Adapter-PCB-diode-black solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
36	Adapter-PCB-diode-copper metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		

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37	Adapter-PCB-diode-pin-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
38	Adapter-PCB-color circle inductor-gray solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
39	Adapter-PCB-color circle inductor-copper metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
40	Adapter-PCB-color circle inductor-pin-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
41	Adapter-PCB-DR core-rind-black soft plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
42	Adapter-PCB-DR core-black solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		

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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
43	Adapter-PCB-DR core-coil-copper metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
44	Adapter-PCB-DR core-pin-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
45	Adapter-PCB-triode-black solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
46	Adapter-PCB-triode-black solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
47	Adapter-PCB-triode-copper metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
48	Adapter-PCB-safety capacitor-blue solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		

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49	Adapter-PCB-safety capacitor-black solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
50	Adapter-PCB-safety capacitor-pin-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
51	Adapter-PCB-LED-red transparent hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
52	Adapter-PCB-LED-pin-coat-black soft plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
53	Adapter-PCB-LED-pin-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
54	Adapter-PCB-polyester capacitor-green solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		

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55	Adapter-PCB-polyester capacitor-silver foil	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
56	Adapter-PCB-polyester capacitor-pin-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
57	Adapter-PCB-electrolytic capacitor-rind-brown soft plastic with gray printing	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
58	Adapter-PCB-electrolytic capacitor-rind-black soft plastic with gold printing	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
59	Adapter-PCB-electrolytic capacitor-shell-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
60	Adapter-PCB-electrolytic capacitor-black soft plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		

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61	Adapter-PCB-electrolytic capacitor-brown paper	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
62	Adapter-PCB-electrolytic capacitor-dull silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
63	Adapter-PCB-electrolytic capacitor-pin-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
64	Adapter-PCB-transformer-yellow tape	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
65	Adapter-PCB-transformer-frame-black solid	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
66	Adapter-PCB-transformer-coil-copper metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		

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67	Adapter-PCB-transformer-pin-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
68	Adapter-PCB-white glue	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
69	Adapter-PCB-solder-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
70	Adapter-wire-coat-black soft plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
71	Adapter-wire-rind-black soft plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
72	Adapter-wire-rind-white soft plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		

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73	Adapter-wire-rind-red soft plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
74	Adapter-wire-core-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
75	Adapter-wire-core-copper metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
76	Adapter-wire-fixed plate-black soft plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
77	Adapter-wire-switch-shell-black hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
78	Adapter-wire-switch-green PCB	Pb	BL	PBBs:ND PBDEs:ND	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	X		

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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
79	Adapter-wire-switch-PCB-slide switch-shell-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
80	Adapter-wire-switch-PCB-slide switch-touch spot-black hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
81	Adapter-wire-switch-PCB-slide switch-electrode plate-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
82	Adapter-wire-switch-PCB-slide switch-brown PCB	Pb	BL	PBBs:ND PBDEs:ND	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	X		
83	Adapter-wire-switch-PCB-rotary switch-black hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
84	Adapter-wire-switch-PCB-rotary switch-electrode plate-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		

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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
85	Adapter-wire-switch-PCB-solder-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
86	Adapter-wire-plug-black soft plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
87	Adapter-wire-plug-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
88	Adapter-wire-plug-black hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
89	Adapter-wire-plug-solder-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
90	Screw-silver metal with black coating	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		

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No.	Sample description	Restricted substances	Results of EDXRF ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg)	Remark
91	Box-white hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
92	Box-transparent hard plastic	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
93	Box-red foam	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		
94	Drill-silver metal	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	NA		
95	Red sandpaper	Pb	BL	NA	Non comment
		Cd	BL		
		Hg	BL		
		Cr	BL		
		Br	BL		

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Remark: (1) ① Results are obtained by XRF for primary screening, and further wet chemical testing by ICP-OES / AAS (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).

② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA= Not Applicable.

③ The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

Element	Polymer	Metal	Composite Materials
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	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(2) ① mg/kg = ppm = 0.0001%, ND = Not Detected (Less than reporting limit value.).

② Unit, Reporting Limit (RL) and Requirement limit in wet chemical test.

Test items	Pb	Cd	Hg	Cr ⁶⁺ (Non-metal)	Cr ⁶⁺ (metal)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
RL	2	2	2	2	2	5	5
Requirement Limit	1000	100	1000	1000	Negative	1000	1000

③ According to IEC 62321:2008 & IEC 62321-7-1:2015, result on Cr⁶⁺ for metal sample is shown as Positive/Negative.

Negative = Absence of Cr⁶⁺ coating, Positive = Presence of Cr⁶⁺ coating.

Storage condition and production date of the tested sample are unavailable and thus results of Cr⁶⁺ represent status of the sample at the time of testing.

④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test. And "NA" means no need to perform wet chem test, when the XRF screening results are qualified.

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Test Results:

Test results of Phthalates (DEHP, DBP, BBP, DIBP)

Test Item	Test Result (mg/kg)				Reporting Limit (mg/kg)	Requirement limit (mg/kg)
	2/7/11	9/24/25	10/64/68	14/21/27		
Dibutyl phthalate(DBP)	ND	ND	266	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000

Test Item	Test Result (mg/kg)				Reporting Limit (mg/kg)	Requirement limit (mg/kg)
	25/41/52	28/57/58	29/93	51/60/70		
Dibutyl phthalate(DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	ND	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000

Test Item	Test Result (mg/kg)				Reporting Limit (mg/kg)	Requirement limit (mg/kg)
	71/72/73	76/80/86	77/83	88/91/92		
Dibutyl phthalate(DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl phthalate(BBP)	ND	ND	ND	ND	30	1000
Di-2-ethylhexyl phthalate(DEHP)	ND	172	ND	ND	30	1000
Diisobutyl phthalate(DIBP)	ND	ND	ND	ND	30	1000

Note: mg/kg = parts per million = ppm

ND = Not Detected (less than reporting limit)

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Test Material List:

Item No.	Description
2	Shell-white hard plastic
7	Shell-white hard plastic with silver coating
9	Shell-key cap-white hard plastic with silver coating
10	Shell-transparent hard plastic
11	Base-white hard plastic
14	Base-foot pad-black soft plastic
21	Base-nail-black hard plastic
23	Base-label-silver soft plastic with black coating
24	Base-label-white paper
25	PCB(LED)-LED-transparent hard plastic
27	PCB(QD-X)-electrolytic capacitor-black soft plastic with gray printing
28	PCB(QD-X)-electrolytic capacitor-black soft plastic
29	PCB(QD-X)-LED-red transparent hard plastic
41	PCB(QD-X)-buzzer-label-white paper with blue printing
51	PCB(QD-X)-buzzer-shell-black hard plastic
52	PCB(QD-X)-relay-shell-black hard plastic
57	PCB(QD-X)-terminal-white hard plastic
58	Power socket-black hard plastic
60	Wire-coat-black soft plastic
64	Wire-rind-red soft plastic
68	Wire-rind-black soft plastic
70	Adapter-shell-black hard plastic
71	Adapter-shell-label-silver soft plastic with black coating
72	Adapter-shell-black foam
73	Adapter-shell-white glue
76	Adapter-PCB-electrolytic capacitor-rind-black soft plastic with gray coating
77	Adapter-PCB-electrolytic capacitor-rind-green soft plastic with gold coating

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Test Material List:

Item No.	Description
80	Adapter-PCB-electrolytic capacitor-black soft plastic
83	Adapter-PCB-transformer-yellow tape
86	Adapter-wire-rind-red soft plastic
88	Adapter-wire-rind-black soft plastic
91	Adapter-wire-fixed plate-black soft plastic
92	Adapter-wire-plug-black soft plastic
93	Adapter-wire-plug-black hard plastic

Remark: As specified by client, the samples were proceeded mixed testing.

Photo Appendix



* * * * * The End * * * * *

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ANNEX

EXEMPTION LIST

- 1 Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
 - 1(a) For general lighting purposes < 30W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011 until 31 December 2012; 2.5mg shall be used per burner after 31 December 2012)
 - 1(b) For general lighting purposes \geq 30W and <50W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011)
 - 1(c) For general lighting purposes \geq 50W and <150W: 5mg
 - 1(d) For general lighting purposes \geq 150W: 15mg
 - 1(e) For general lighting purposes with circular or square structural shape and tube diameter \leq 17mm (no limitation of use until 31 December 2011; 7mg may be used per burner after 31 December 2011)
 - 1(f) For special purposes: 5mg
 - 1(g) For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg (Expires on 31 December 2017)
- 2(a) Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):
 - 2(a)(1) Tri-band phosphor with normal lifetime and a tube diameter < 9mm (e.g. T2): 5mg (expires on 31 December 2011; 4mg may be used per lamp after 31 December 2011)
 - 2(a)(2) Tri-band phosphor with normal lifetime and a tube diameter \geq 9mm and \leq 17mm (e.g. T5): 5mg (expires on 31 December 2011; 3mg may be used per lamp after 31 December 2011)
 - 2(a)(3) Tri-band phosphor with normal lifetime and a tube diameter > 17mm and \leq 28mm (e.g. T8): 5mg (expires on 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
 - 2(a)(4) Tri-band phosphor with normal lifetime and a tube diameter > 28mm (e.g. T12): 5mg (expires on 31 December 2012; 3.5mg may be used per lamp after 31 December 2012)
 - 2(a)(5) Tri-band phosphor with long lifetime (\geq 25000h): 8mg (expires on 31 December 2011; 5mg may be used per lamp after 31 December 2011)
- 2(b) Mercury in other fluorescent lamps not exceeding (per lamp):
 - 2(b)(2) Non-linear halophosphate lamps (all diameters): 15mg (expires on 13 April 2016)
 - 2(b)(3) Non-linear tri-band phosphor lamps with tube diameter > 17mm (e.g. T9) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
 - 2(b)(4) Lamps for other general lighting and special purposes (e.g. induction lamps) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
- 3 Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
 - 3(a) Short length (\leq 500mm) (No limitation of use until 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
 - 3(b) Medium length (> 500mm and \leq 1500mm) (No limitation of use until 31 December 2011; 5mg may be used per lamp after 31 December 2011)
 - 3(c) Long length (> 1500mm) (No limitation of use until 31 December 2011; 13mg may be used per lamp after 31 December 2011)
- 4(a) Mercury in other low pressure discharge lamps (per lamp) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
- 4(b) Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:
 - 4(b)-I $P \leq 155W$ (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
 - 4(b)-II $155W < P \leq 405W$ (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
 - 4(b)-III $P > 405W$ (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 4(c) Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
 - 4(c)-I $P \leq 155W$ (no limitation of use until 31 December 2011; 25mg may be used per burner after 31 December 2011)
 - 4(c)-II $155W < P \leq 405W$ (no limitation of use until 31 December 2011; 30mg may be used per burner after 31 December 2011)
 - 4(c)-III $P > 405W$ (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 4(d) Mercury in High Pressure Mercury (vapour) lamps (HPMV) (expires on 13 April 2015)
- 4(e) Mercury in metal halide lamps (MH)
- 4(f) Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex
- 4(g) Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows: (Expires on 31 December 2018)
 - (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 ° C;
 - (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications.

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ANNEX

EXEMPTION LIST

Continued

- 5(a) Lead in glass of cathode ray tubes
- 5(b) Lead in glass of fluorescent tubes not exceeding 0.2% by weight
- 6(a) Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight
- 6(b) Lead as an alloying element in aluminium containing up to 0.4% lead by weight
- 6(c) Copper alloy containing up to 4% lead by weight.
- 7(a) Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead)
- 7(b) Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications
- 7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound
- 7(c)-II Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher
- 7(c)-III Lead in dielectric ceramic in capacitors for a rated voltage of less than 125V AC or 250V DC (expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013).
- 7(c)-IV Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors
- 8(a) Cadmium and its compounds in one shot pellet type thermal cut-offs (expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012)
- 8(b) Cadmium and its compounds in electrical contacts
- 9 Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution
- 9(b) Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications
- 11(b) Lead used in other than C-press compliant pin connector systems (expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013)
- 13(a) Lead in white glasses used for optical applications
- 13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards
- 14 Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight (expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011)
- 15 Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages
- 17 Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications
- 18(b) Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi₂O₅:Pb)
- 21 Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glass
- 24 Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors
- 25 Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring
- 29 Lead bound in crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC
- 30 Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more
- 31 Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)
- 32 Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes
- 33 Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers
- 34 Lead in cermet-based trimmer potentiometer elements
- 37 Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body
- 38 Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide
- 39 Cadmium in colour converting II-VI LEDs (< 10 µg Cd per mm² of light-emitting area) for use in solid state illumination or display systems (expires on 1 July 2014)
- 41 Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council (2)) (Expires on 31 December 2018)

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