

Test Report

Report No. ECL01I041940001

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Applicant SUZHOU CHUANGJI ELECTRONICS CO LTD

Address NO.588 BINHE ROAD HIGH TECH ZONE,SUZHOU

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name capacitor
Client Reference X1;X2;MEF;MPP;MEA;MET;CT81;Y1;Y2
Information
Sample Received Date Jul. 14, 2016
Testing Period Jul. 14, 2016 to Jul. 18, 2016

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Tested by

Qtham

Reviewed by

Taoying

Approved by

Su Hongwei

Date

Jul. 18, 2016

Su Hongwei

Senior Laboratory Manager

No. R188386198

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No.1996,Xinjinqiao Road, Pudong New District,Shanghai,China

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Test Method

Tested Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Mercury(Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015	UV-Vis
	IEC 62321:2008 Ed.1 Annex C	
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Fluorine (F)	Refer to BS EN 14582:2007	IC
Chlorine (Cl)	Refer to BS EN 14582:2007	IC
Bromine (Br)	Refer to BS EN 14582:2007	IC
Iodine (I)	Refer to BS EN 14582:2007	IC

Test Result(s)

Tested Item(s)	Result		MDL
	1	2	
Lead(Pb)	N.D.	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	N.D.	2 mg/kg
Mercury(Hg)	N.D.	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	—	2 mg/kg
	—	N.D.▼	0.10µg/cm ² (LOQ)

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Test Result(s)

Tested Item(s)	Result	MDL
	1	
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Polybrominated Diphenyl Ethers(PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
	1	
Halogen		
Fluorine (F)	114 mg/kg	10mg/kg
Chlorine (Cl)	229 mg/kg	10mg/kg
Bromine (Br)	15 mg/kg	10mg/kg
Iodine (I)	N.D.	10mg/kg

Tested Sample/Part Description

1. Yellow body (Mix all)
2. Silvery metal pin

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Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-As specified by client, the test was conducted by mixing all materials together.

The result(s) shown on this report may be different from the content of any homogeneous material.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

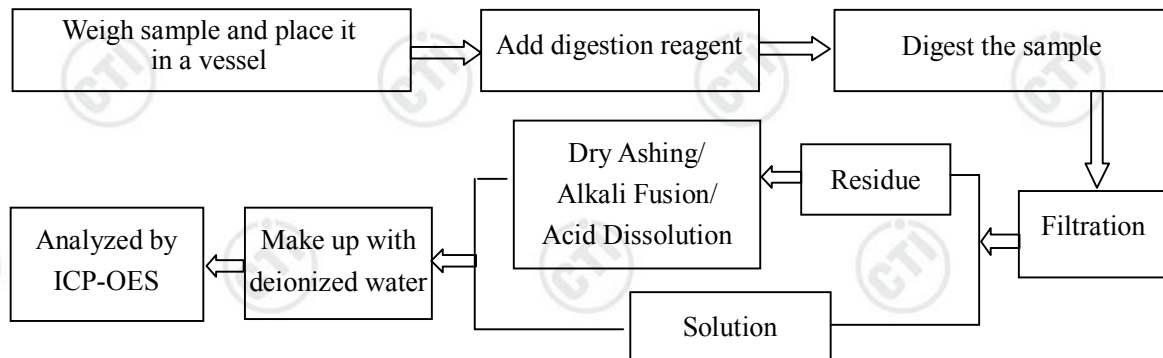
-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 $\mu\text{g}/\text{cm}^2$

-▼ The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 $\mu\text{g}/\text{cm}^2$.

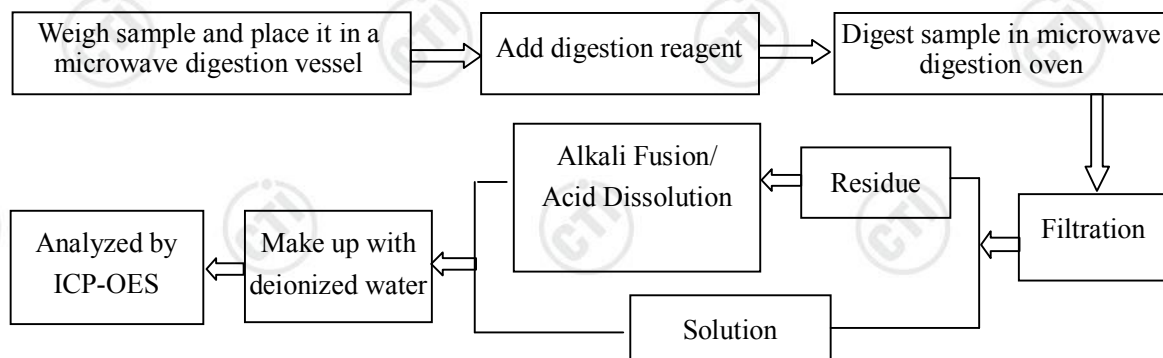
The coating is considered a non-Cr(VI) based coating.

Test Process

1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



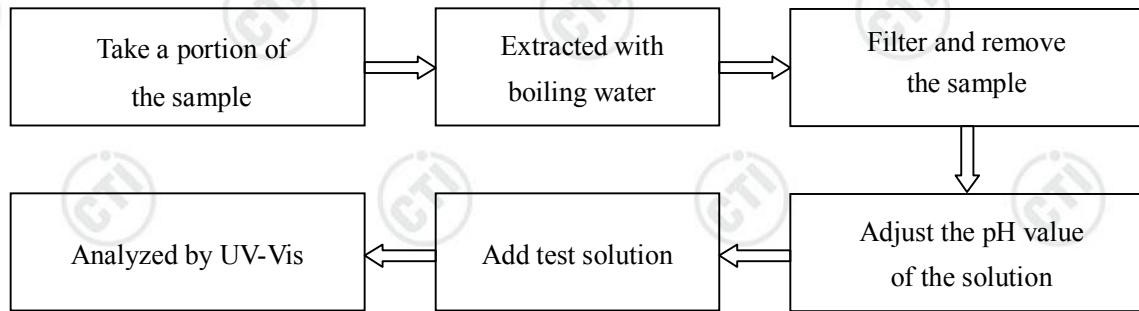
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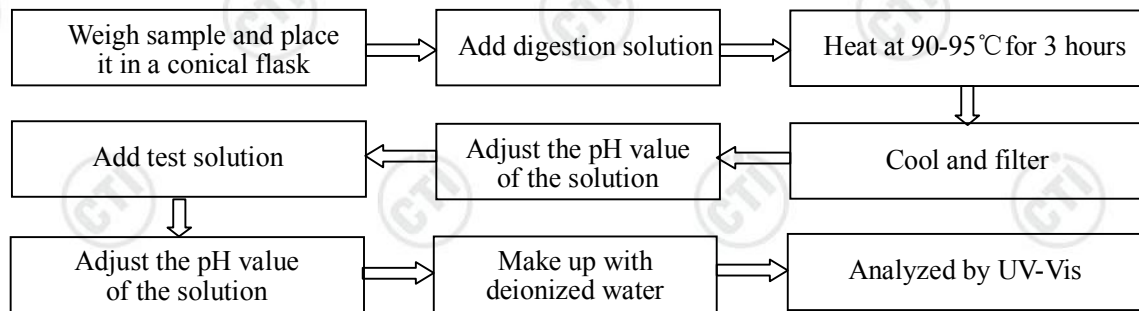
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3. Hexavalent Chromium (Cr(VI))

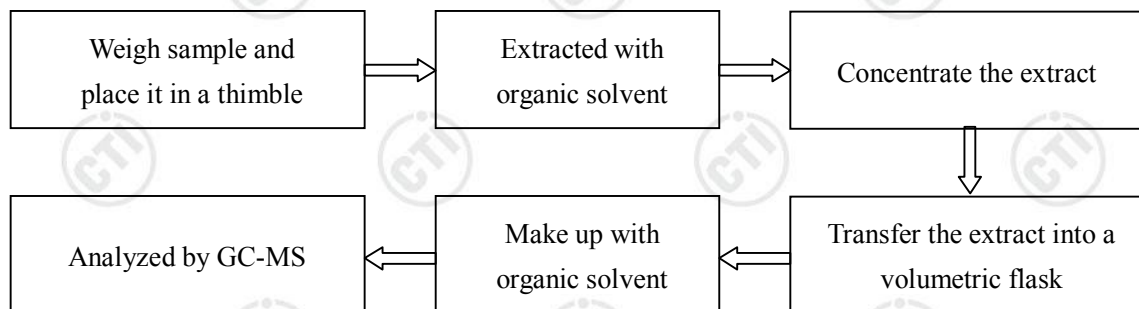
(1) IEC 62321-7-1:2015



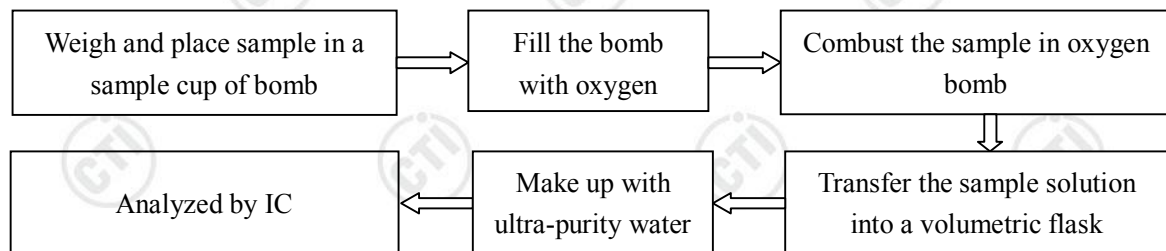
(2) IEC 62321:2008 Ed.1 Annex C



4. Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)



5. Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I)

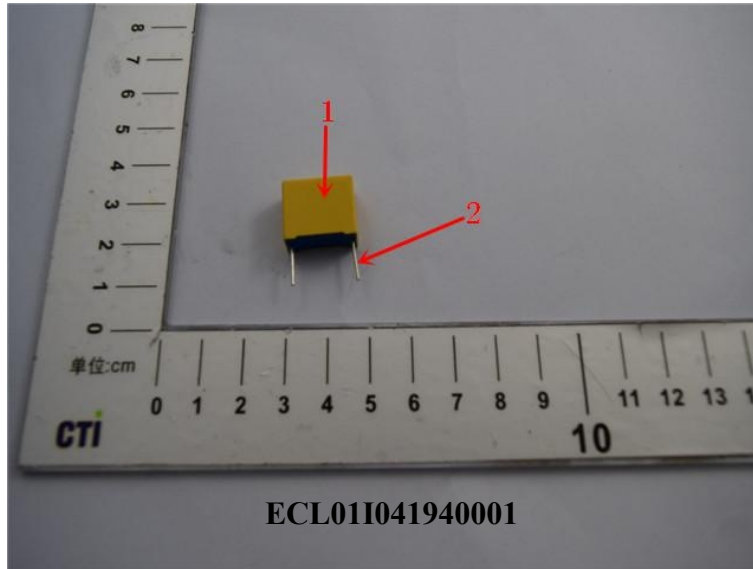


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Photo(s) of the sample(s)



*** End of Report ***

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