

檢測報告 Test Report

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申請單位 台一國際股份有限公司
Applicant TAI-I ELECTRIC WIRE&CABLE CO.,LTD
地 址 30352新竹縣湖口工業區大同路25號
Address 30325 NO.25 DA TONG RD.,HUKO COUNTRY SHINCHU HSIEN. TAIWAN. R.O.C.

以下測試之樣品及樣品信息由申請者提供並確認

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

樣品名稱 聚亞胺聚酯漆包線
Sample Name POLYESTERIMIDE ENAMELLED WIRE

樣品接收日期 2016.03.14
Sample Received Date Mar. 14, 2016

樣品檢測日期 2016.03.14-2016.03.17
Testing Period Mar. 14, 2016 to Mar. 17, 2016

檢測要求 根據客戶要求, 對所提交樣品中的鉛(Pb), 鎘(Cd), 汞(Hg), 六價鉻(Cr(VI)), 多溴聯苯(PBBs), 多溴二苯醚(PBDEs), 氟(F), 氯(Cl), 溴(Br), 碘(I), 富馬酸二甲酯(DMF), 全氟辛烷磺酸鹽(PFOS), 全氟辛烷酸(PFOA)進行測試。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I), Dimethyl fumarate(DMF), Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA) in the submitted sample(s).

檢測依據/檢測結果 請參見下頁。
Test Method/Test Result(s) Please refer to the following page(s).

主 檢 李麗婷
Tested by

審 核 黃 艷
Reviewed by

批 准 劉少蔚
Approved by

日 期 2016.03.17
Date



劉少蔚
技術經理 Technical Manager

No. T148190139

華測檢測集團股份有限公司
Centre Testing International Group Co.,Ltd.

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Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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檢測依據 Test Method

測試項目 Test Item(s)	測試方法 Test Method	測試儀器 Measured Equipment(s)
鉛(Pb) Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
鎘(Cd) Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
汞(Hg) Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
六價鉻(Cr(VI)) Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
多溴聯苯(PBBs) Polybrominated Biphenyl(PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚(PBDEs) Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321-6:2015	GC-MS
氟(F) Fluorine(F)	參考BS EN 14582:2007 Refer to BS EN 14582:2007	IC
氯(Cl) Chlorine(Cl)	參考BS EN 14582:2007 Refer to BS EN 14582:2007	IC
溴(Br) Bromine(Br)	參考BS EN 14582:2007 Refer to BS EN 14582:2007	IC
碘(I) Iodine(I)	參考BS EN 14582:2007 Refer to BS EN 14582:2007	IC
富馬酸二甲酯(DMF) Dimethyl fumarate(DMF)	參考US EPA 3550C:2007 & US EPA 8270D:2007 Refer to US EPA 3550C:2007 & US EPA 8270D:2007	GC-MS
全氟辛烷磺酸鹽(PFOS) Perfluorooctane Sulfonates(PFOS)	參考US EPA 3550C:2007 & US EPA 8321B:2007 Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS
全氟辛烷酸(PFOA) Perfluorooctanoic Acid(PFOA)	參考US EPA 3550C:2007 & US EPA 8321B:2007 Refer to US EPA 3550C:2007 & US EPA 8321B:2007	LC-MS-MS

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檢測結果 Test Result(s)

測試項目 Test Item(s)	結果 Result	方法檢出限 MDL
鉛(Pb) Lead (Pb)	N.D.	2 mg/kg
鎘(Cd) Cadmium (Cd)	N.D.	2 mg/kg
汞(Hg) Mercury (Hg)	N.D.	2 mg/kg
六價鉻(Cr(VI)) Hexavalent Chromium (Cr(VI))	N.D.	2 mg/kg

測試項目 Test Item(s)	結果 Result	方法檢出限 MDL
多溴聯苯(PBBs) Polybrominated Biphenyl(PBBs)		
一溴聯苯 Monobromobiphenyl	N.D.	5 mg/kg
二溴聯苯 Dibromobiphenyl	N.D.	5 mg/kg
三溴聯苯 Tribromobiphenyl	N.D.	5 mg/kg
四溴聯苯 Tetrabromobiphenyl	N.D.	5 mg/kg
五溴聯苯 Pentabromobiphenyl	N.D.	5 mg/kg
六溴聯苯 Hexabromobiphenyl	N.D.	5 mg/kg
七溴聯苯 Heptabromobiphenyl	N.D.	5 mg/kg
八溴聯苯 Octabromobiphenyl	N.D.	5 mg/kg
九溴聯苯 Nonabromobiphenyl	N.D.	5 mg/kg
十溴聯苯 Decabromobiphenyl	N.D.	5 mg/kg

測試項目 Test Item(s)	結果 Result	方法檢出限 MDL
多溴二苯醚(PBDEs) Polybrominated Diphenyl Ethers(PBDEs)		
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg

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測試項目 Test Item(s)	結果 Result	方法檢出限 MDL
鹵素 Halogen(s)		
氟(F) Fluorine(F)	N.D.	10 mg/kg
氯(Cl) Chlorine(Cl)	N.D.	10 mg/kg
溴(Br) Bromine(Br)	N.D.	10 mg/kg
碘(I) Iodine(I)	N.D.	10 mg/kg
測試項目 Test Item(s)		
富馬酸二甲酯(DMF) Dimethyl fumarate(DMF)	N.D.	0.1 mg/kg
全氟辛烷磺酸鹽(PFOS) Perfluorooctane Sulfonates(PFOS)	N.D.	5 mg/kg
全氟辛烷酸(PFOA) Perfluorooctanoic Acid(PFOA)	N.D.	5 mg/kg

測試樣品/部位描述 棕紅色漆包線
Tested Sample/Part Description Brown-red enamelled wire

備註: 對於檢測鉛, 鎘, 汞之樣品已完全溶解。

-N.D. = 未檢出 (小於方法檢出限)

-mg/kg= ppm = 百萬分之一

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

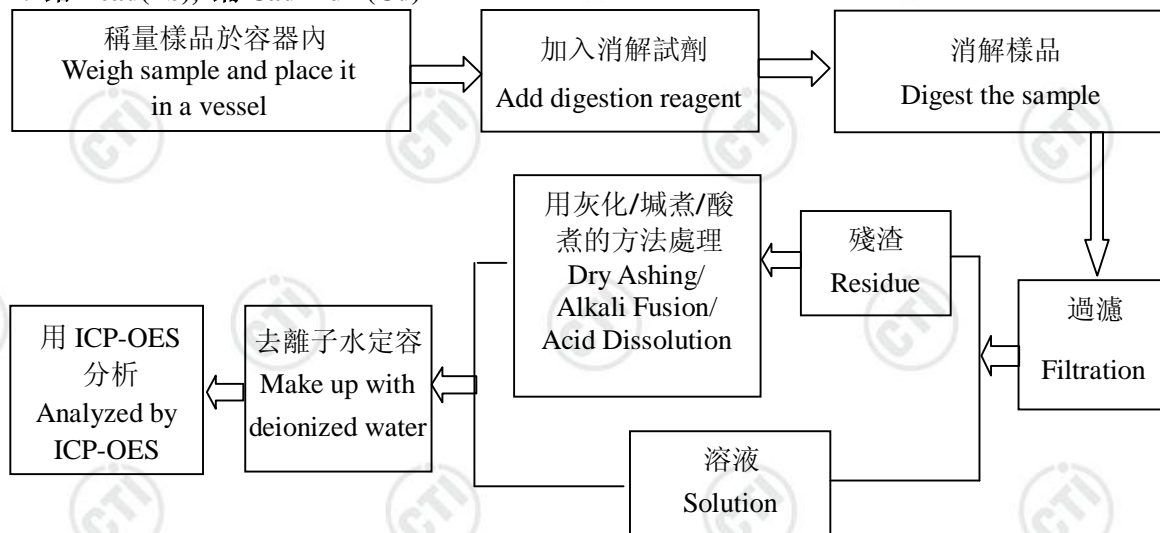
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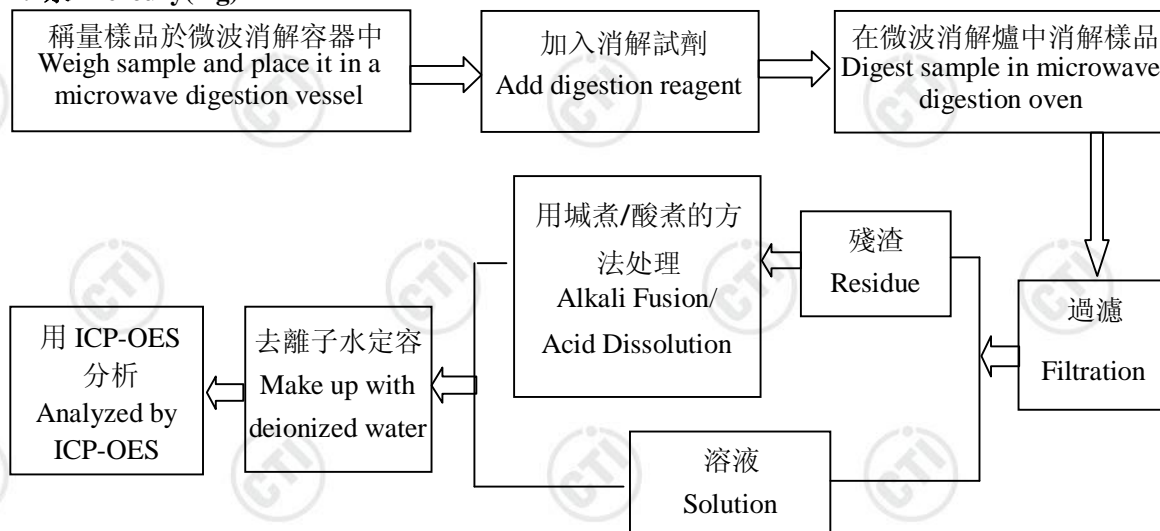
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檢測流程 Test Process

1. 鉛 Lead(Pb), 鎘 Cadmium(Cd)



2. 汞 Mercury(Hg)

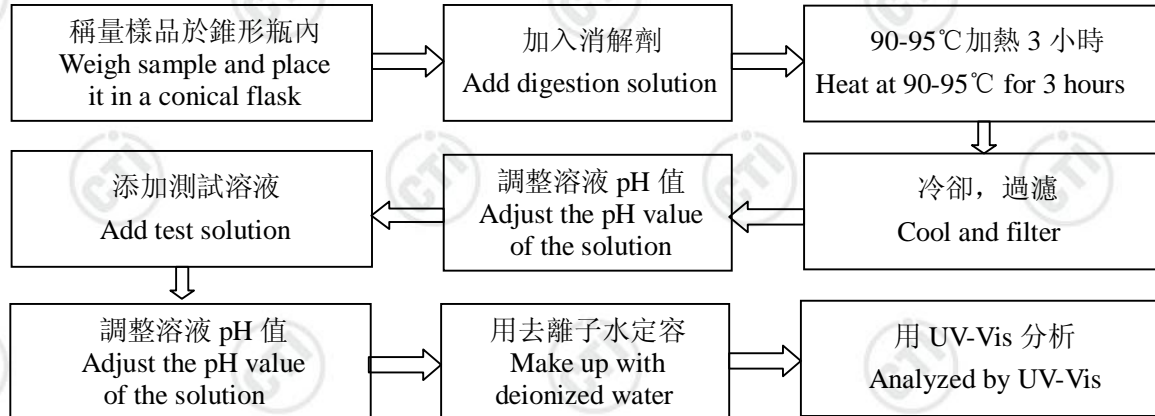


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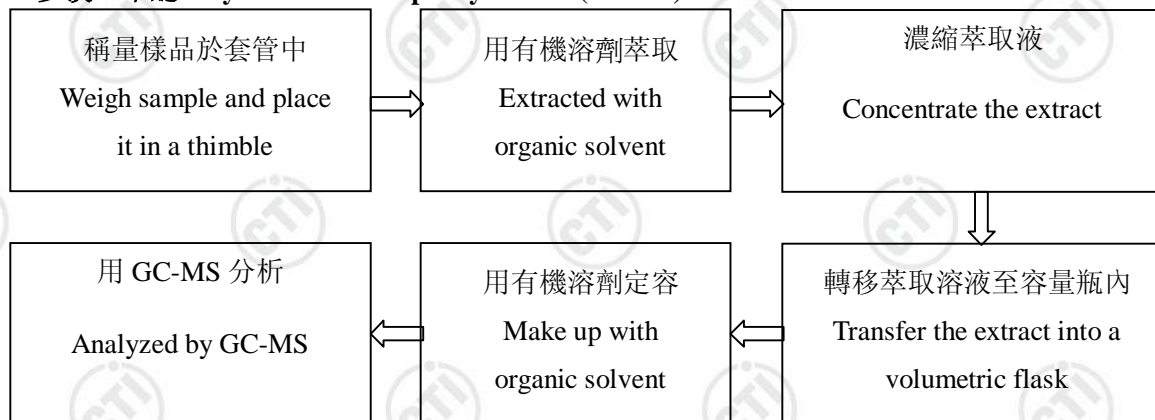
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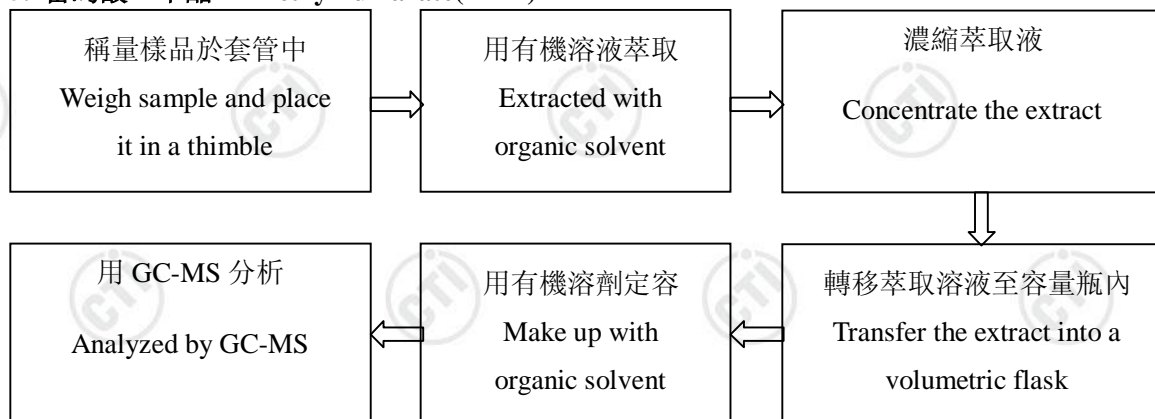
3. 六價鉻 Hexavalent Chromium (Cr(VI))



4. 多溴聯苯 Polybrominated Biphenyls(PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers(PBDEs)



5. 富馬酸二甲酯 Dimethyl fumarate(DMF)

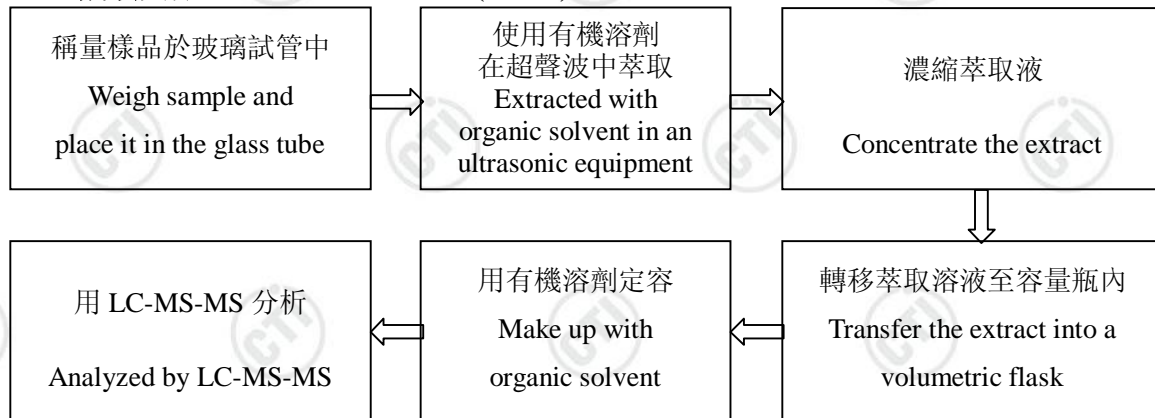


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6. 全氟辛烷磺酸鹽 Perfluorooctane Sulfonates(PFOS), 全氟辛烷酸 Perfluorooctanoic Acid(PFOA)



7. 氟 Fluorine (F), 氯 Chlorine (Cl), 溴 Bromine (Br), 碘 Iodine (I)



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樣品圖片 Photo(s) of the sample(s)



報告結束
*** End of report ***

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