

承 認 書

Specification For Approval

種類：新零件 替代料件 客供品

承認日期：2013 年 4 月 25 日

供應商：伸銓實業有限公司

廠牌：SHIN CHUN

廠牌型號：295-B001-581

新料號：6G6002-5013-0100	原物料 料號：
品名：Lan Cable,RK,	原物料 品名：
規格：LF,CAT-5e,2.0 2*4/2.0 2*4,L=15cm, PW301	原物料 規格：

版次：V01

經辦	測試人員	主管	研發部適用章
鍾惠瑛	李雅龍		

註：非管制本僅供持有人參考，不列入追蹤管制；當內容有修定時，亦不主動通知修訂。

Lex SYSTEM 博來科技股份有限公司

表單編碼

QR-RD-13

樣品承認單

版 本

V03

承辦人： Cathy	日期： 102年 4月 24日	需求日期：
廠商： 伸銳	適用機種描述：	環境範圍： [<input checked="" type="checkbox"/>] Reach
連絡人： Tommy		溫度[<input type="checkbox"/>]商規 [<input type="checkbox"/>]工規 _____
電話： 046-1128		[<input type="checkbox"/>] 其他 _____

廠商品名	廠商規格	樣品數量
T=95-B01-581	2.0(8")/2.0(8P)-150mm Rev.A	
固定前置 天數	變動前置 天數	批量 200
		最低 補量 1

備註：

送樣方式：[] R/D 要求 [] 採購要求 [] 廠商推薦 [] 廠務要求 [] 其他 _____

送樣原因： [<input checked="" type="checkbox"/>] 新件承認 [<input type="checkbox"/>] 替代用件 (請填寫替代原因、原物料資料)	替代原因：
------------------------------------------------------------------------------------------------------------	-------

原物料編號	品名	規格

承認單位：
生技

環境敘述：

燒機時間： 2HR	抽樣數量 3
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測試過程：

1. 电气測試: ok
2. 线長規格符合
3. RoHS 驗證符合規定
4. REACH 採自我宣告

[] 適用 [] 適用-小量試產 [] 不適用Approved By : *Angus*

鼎新編號	品名	規格	經辦
696002-5013-000	Lan Cable, RK,	2F, CAT-5e, 2.0 >x4/2.0 >x4, L=15cm, PW>01	Mandy
NO: 006437		Lex SYSTEM	博來科技股份有限公司

納入仕様書

SPECIFICATION FOR APPROVAL

客戶名稱

CUSTOMER : 博來科技股份有限公司

客戶料號

PART NO.:

產品料號

PROD NO.: T295-B001-581

產品規格

SPEC. : 2.0(8P)/2.0(8P)-150mm

版本

REVISION: Rev. A

認證請簽名

APPROVED BY:

認證日期

APPROVED DATE: / /2013

伸銓實業有限公司

新北市板橋區和平路 39 號 2 樓

E-mail:shin98@ms16.hinet.net

E-mail:scha4@shch.com.tw

<http://www.shch.com.tw>

SHIN CHUN ELECTROICS CO.,LTD.

2ND FL.39,HO-PIN RD.PANCHIAO CITY

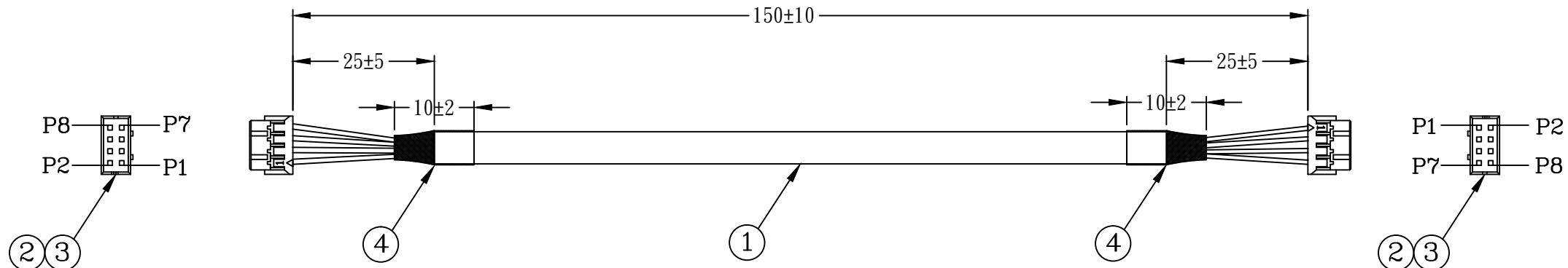
TAIPEI HSIEN TAIWAN R.O.C.

TEL:886-2-29561128

FAX:886-2-29516567

A

B



PIN ASSIGNMENT

A 2.0mm PITCH 2X4P HSG	WIRE PAIR	B 2.0mm PITCH 2X4P HSG	WIRE COLOR
1		1	ORANGE
2		2	ORANGE/WHITE
3		3	BLUE
6		6	BLUE/WHITE
4		4	GREEN
5		5	GREEN/WHITE
7		7	BROWN
8		8	BROWN/WHITE

UNIT	MM	伸銓實業有限公司 Shin Chun Industrial Co., Ltd.
X. ±	X. °±	
X. X±	X. X°±	TITLE: 2.0(8P)/2.0(8P)-150mm
X. XX±	X. XX°±	PART No.:
X. XXX±	X. XXX°±	T295-B001-581
		CUS. P/N.:
APPD:		
CHK:		DWG No.:
DR:		TH-295581
Q'TY	DATE: APR/22/2013	SCALE SHEET REV.
		NON 1 B

4	049-0060-006	TUBE 6Øx10mm,COLOR BLACK	2PCS
3	151-2004-012	2.0mm PITCH TERMINAL(PHD-T)	16PCS
2	150-2008-204	2.0mm PITCH 2x4,8P HOUSING(PHD-8P)	2PCS
1	007-C820-100	CABLE UTP CAT-5e 24AWGx4PAIR,OD 5.5mm,COLOR BEIGE L=160mm	1PC
ITEM	PART NO:	DESCRIPTIONS	Q'TY

伸銓實業有限公司

CABLE SPECIFICATION 線材規格書

SPECIFICATION		UTP CAT.5e 24AWG 4PR OD 5.5mm					供應廠商
SPART NO.:	007-C624-102	UL Style:		CSA Style		DATE	
DWG No.:	SH-	UL File No.		CSA File No.		CHK.	

Specification for Hyper-Data 1000 Cat.5e UTP Stranded Lan Cable

Spec. No. S880612 Version: E Date: January 18, 2007

UL 444 & CSA-C22.2 No. 214: Type CM, 24AWGx 4P

TIA/EIA-568-B.2: Patch Cable (Stranded Conductor)

1. Conductor : Stranded Bare copper (7 x AWG32)

2. Insulation : HDPE (CMI-75E)

Min. Avg. Thickness: 0.178 mm;

Min. Thickness: 0.153 mm

3. Color Code : Pair 1: Blue & White/Blue;

Pair 2: Orange & White/Orange

Pair 3: Green & White/Green;

Pair 4: Brown & White/Brown

4. Jacket : 75°C PVC Compound (CMI-80S)

Min. Avg. Thickness: 0.585 mm;

Min. Thickness: 0.458 mm

Approximate O.D. : 5.5 mm +/- 0.3mm

5. Electric Requirements : (Cable length: 100M)

Characteristic Impedance(Zo): 85~115Ω(1~100MHz)

Other Requirements: (dB/100M)

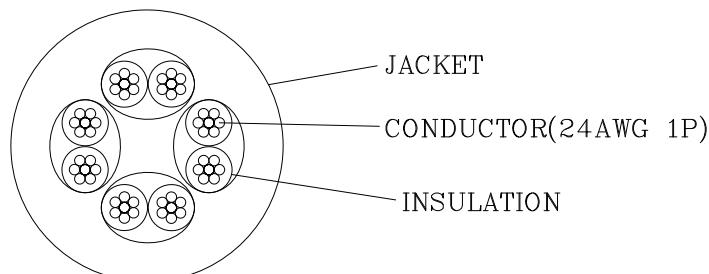
DC. Resistance Capacitance Unbalance:5%

Pair-to-Ground Capacitance Unbalance: 330 pF/100M Max

Conductor Resistance: 9.38Ω/100M 20°C Max

Mutual Capacitance: 5.6 nF/m Max

Spark Test: 2.5KV

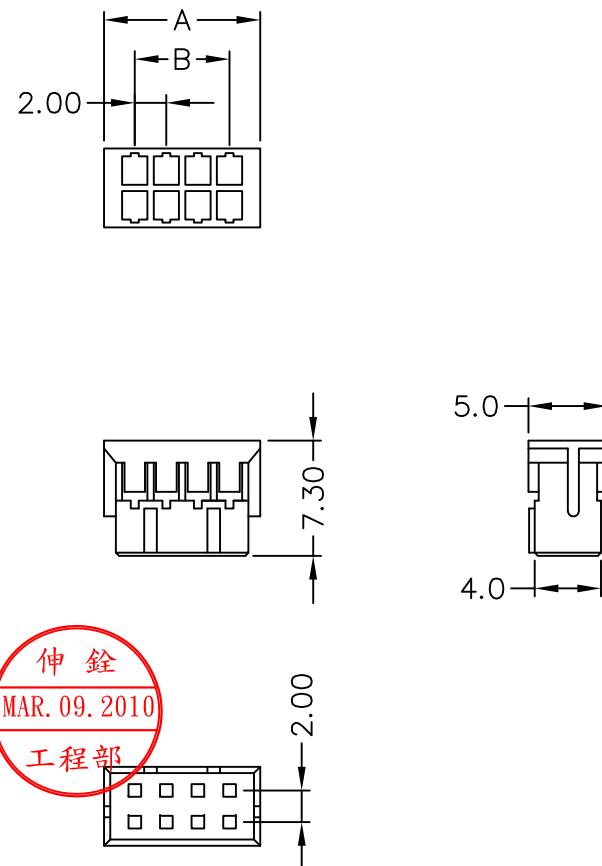


伸銓實業有限公司

CABLE SPECIFICATION 線材規格書

Frequency mhZ	Att. Stranded	Pr-Pr NEXT	PS NEXT	Prop. Delay ns	Delay Skew ns	Return Loss	Pr-Pr ELFEXT	PS ELFEXT
1	2.4	65.3	62.3	538.5	45	20.0	63.8	60.8
10	7.4	50.3	47.3	545.0	45	25.0	43.8	40.8
16	9.5	47.3	44.4	539.9	45	25.0	39.7	36.7
20	10.7	45.8	42.8	540.2	45	25.0	37.7	34.7
25	12.1	44.4	41.3	540.8	45	24.2	35.8	32.8
31.25	13.7	42.9	39.9	541.4	45	23.3	33.9	30.9
62.5	20.0	38.4	35.4	542.5	45	20.7	27.8	24.8
100	26.1	35.3	32.3	543.0	45	19.0	23.8	20.8

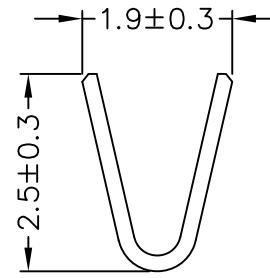
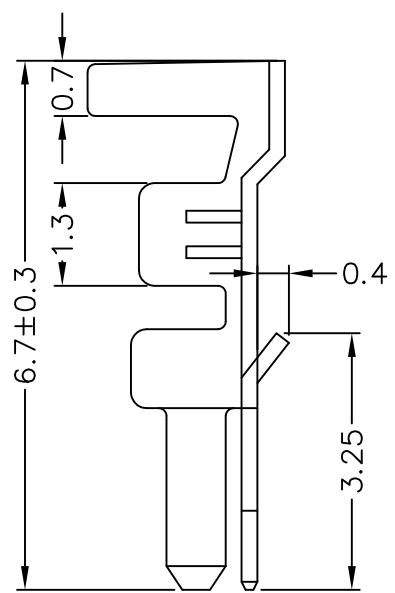
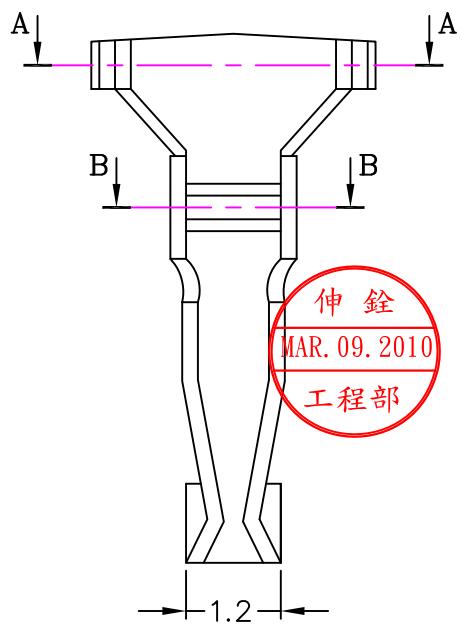
PART NO.	A	B
150-2004-204	5.9	2.0
150-2004-206	7.9	4.0
150-2004-208	9.9	6.0
150-2004-210	11.9	8.0
150-2004-212	13.9	10.0
150-2004-214	15.9	12.0
150-2004-216	17.9	14.0
150-2004-218	19.9	16.0
150-2004-220	21.9	18.0
150-2004-222	23.9	20.0
150-2004-224	25.9	22.0
150-2004-226	27.9	24.0
150-2004-228	29.9	26.0
150-2004-230	31.9	28.0
150-2004-232	33.9	30.0



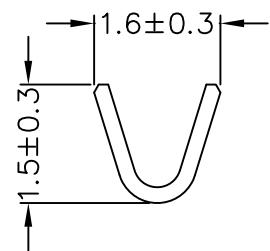
SPECIFICATIONS:

- * Material: Nylon UL94V-0.
- * Current rating: 1A, AC, DC.
- * Voltage rating: 100V AC DC.
- * Temperture range: -25° to +85°.
- * Current resistance: 20m ohm max.
- * Insulation resistance: 1000m ohm min.
- * 2-32 circuits.

UNIT	MM	伸銓實業有限公司 Shin Chun Industrial Co., Ltd.		
X.±	X.±	TITLE: JST TYPE 2.0mm PICH HOUSING		
X.X±	X.X±	PART No.: 150-2004-2XX		
X.XX±	X.XX±	CUS. P/N.: 2220H		
X.XXX±	X.XXX±	APPD:		
APPD:		CHK:		
CHK:		DWG No.: HSG-150012		
DR:		SCALE		
DATE: 29/04/2004		1	1	A



Section A-A'



Section B-B'

SPECIFICATIONS:

- * Material: Bronze tin plated.
- * Current rating: 2A, AC, DC.
- * Voltage rating: 250V AC DC.
- * Current resistance: 20m ohm max.
- * Applicable wire range 22-28AWG.

UNIT	MM	伸銓實業有限公司 Shin Chun Industrial Co., Ltd.		
X.±	X.±			
X.X±	X.X±	TITLE: JST TYPE 2.0mm PICH TERMINAL		
X.XX±	X.XX±	PART No.:		
X.XXX±	X.XXX±	151-2004-012		
APPD:		CUS. P/N.:		
CHK:		2212		
DR:		DWG No.:		
DATE: 29/04/2004		TER-151012		
		SCALE	HEET	REV.
		10:1	1	A

測試報告 Test Report

號碼(No.) : CE/2011/12334A 日期(Date) : 2011/01/26 頁數(Page) : 1 of 8



全宏塑膠工業有限公司
CHUNG HUNG PLASTIC INDUSTRIAL CO., LTD.
新北市新莊區福營路35巷20號
NO. 20, LANE 35, FU-YING ROAD, HSINCHUANG DISTRICT, NEW TAIPEI CITY,
TAIWAN R. O. C.

以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as) :

樣品名稱(Sample Description) : PVC塑膠粒
樣品型號(Style/Item No.) : 1007(LF)、1010(LF)、1015(LF)、1018(LF)、1025(LF)、1028(LF)、1032(LF)、1061(LF)、1185(LF)、1230(LF)、1283(LF)、1284(LF)、1316(LF)、1317(LF)、1318(LF)、1319(LF)、1320(LF)、1321(LF)、1429(LF)、1430(LF)、1431(LF)、1569(LF)、1617(LF)、1618(LF)、1855(LF)、10368(LF)、2464(LF)、2547(LF)、2725(LF)、2733(LF)、2835(LF)、2919(LF)、20276(LF)、PVC花線(LF)
收件日期(Sample Receiving Date) : 2011/01/12
測試期間(Testing Period) : 2011/01/12 TO 2011/01/19

=====

測試結果(Test Results) : 請見下頁 (Please refer to next pages).



Chenyu Kung / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory – Taipei

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測試報告

Test Report

號碼(No.) : CE/2011/12334A 日期(Date) : 2011/01/26 頁數(Page) : 2 of 8



全宏塑膠工業有限公司
CHUNG HUNG PLASTIC INDUSTRIAL CO., LTD.
新北市新莊區福營路35巷20號
NO. 20, LANE 35, FU-YING ROAD, HSINCHUANG DISTRICT, NEW TAIPEI CITY,
TAIWAN R. O. C.

測試結果(Test Results)

測試部位(PART NAME) No.1 : 混測所有顏色塑膠粒 (MIXED ALL COLORED PLASTIC PELLETS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result) No.1
鎘 / Cadmium (Cd)	mg/kg	參考 IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考 IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考 IEC 62321: 2008方法, 以感應耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	參考 IEC 62321: 2008方法, 以UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS) PFOS - Acid PFOS - Metal Salt PFOS - Amide	mg/kg	參考 US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛烷磺酸含量. / With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 000335-67-1)	mg/kg	參考 US EPA 3540C: 1996方法, 以液相層析質譜儀檢測全氟辛酸(銨)含量. / With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS.	10	n.d.

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號碼(No.) : CE/2011/12334A 日期(Date) : 2011/01/26 頁數(Page) : 3 of 8

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TAIWAN R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限值 (MDL)	結果 (Result)
			No.1	No.1
多溴聯苯總和 / Sum of PBBs			-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl			5	n.d.
五溴聯苯 / Pentabromobiphenyl			5	n.d.
六溴聯苯 / Hexabromobiphenyl			5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.

參考 IEC 62321: 2008方法，以氣相層析儀/質譜儀檢測。/ With reference to IEC 62321: 2008 and performed by GC/MS.

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測試報告 Test Report

號碼(No.) : CE/2011/12334A 日期(Date) : 2011/01/26 頁數(Page) : 4 of 8



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NO. 20, LANE 35, FU-YING ROAD, HSINCHUANG DISTRICT, NEW TAIPEI CITY,
TAIWAN R. O. C.

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected (未檢出)
3. MDL = Method Detection Limit (方法偵測極限值)
4. "-" = Not Regulated (無規格值)
5. 樣品的測試是基於申請人要求混合測試，報告中的混合測試結果不代表其中個別單一材質的含量。
(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

PFOS參考資訊(Reference Information) : 指令 2006/122/EC (Directive 2006/122/EC)

(1) 該物質不可置於市場上或使用於特殊物質或配置成分重量濃度等於或大於0.005%.

(May not be placed on the market or used as a substance or constituent of preparations in a concentration equal to or higher than 0.005 % by mass.)

(2) 該物質不可置於市場上的半成品或商品或其物件；假若零件上明顯地具有PFOS並參照結構上及微細構造上計算PFOS重量濃度等於或大於0.1%，而紡織品或其他覆蓋物質，如果PFOS在覆蓋物質中含量等於或大於1 μ g/m².

(May not be placed on the market in semi-finished products or articles, or parts thereof, if the concentration of PFOS is equal to or higher than 0.1 % by mass calculated with reference to the mass of structurally or microstructurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is equal to or higher than 1 μ g/m² of the coated material.)

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測試報告

Test Report

號碼(No.) : CE/2011/12334A 日期(Date) : 2011/01/26 頁數(Page) : 5 of 8

全宏塑膠工業有限公司

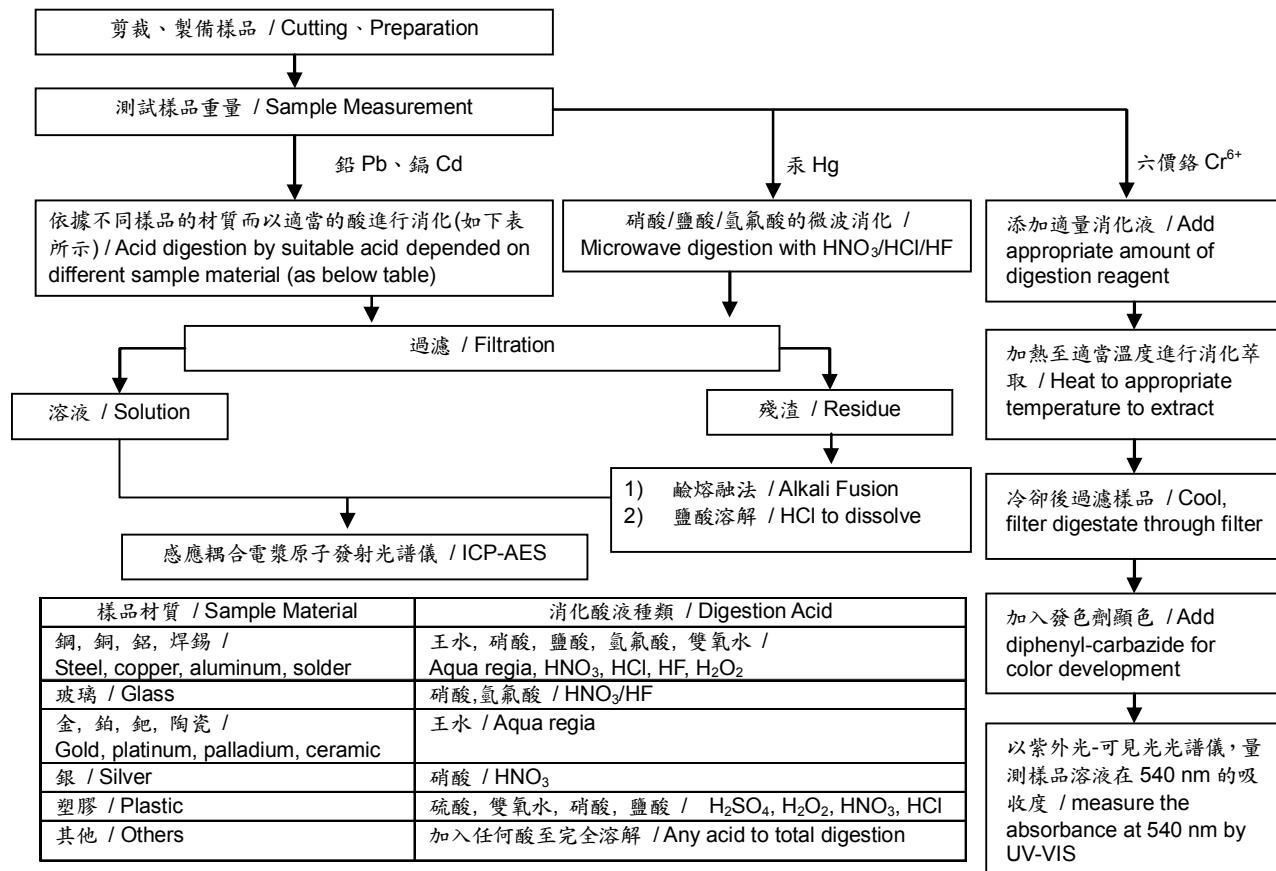
CHUNG HUNG PLASTIC INDUSTRIAL CO., LTD.

新北市新莊區福營路35巷20號

NO. 20, LANE 35, FU-YING ROAD, HSINCHUANG DISTRICT, NEW TAIPEI CITY,
TAIWAN R. O. C.



- 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告 Test Report

號碼(No.) : CE/2011/12334A 日期(Date) : 2011/01/26 頁數(Page) : 6 of 8



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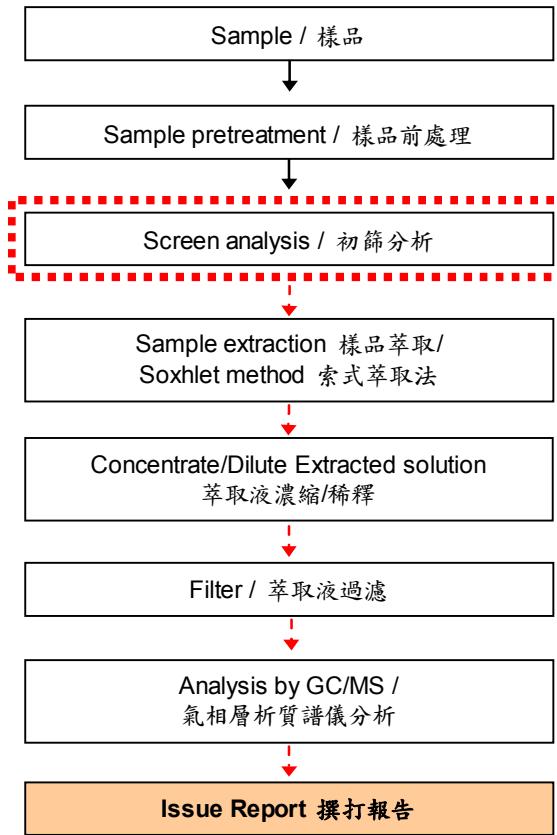
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 1) 測試人員：翁賜彬 / Name of the person who made measurement: Roman Wong
- 2) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang

初次測試程序 / First testing process —————→

選擇性篩檢程序 / Optional screen process

確認程序 / Confirmation process - - - - - →



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號碼(No.) : CE/2011/12334A 日期(Date) : 2011/01/26 頁數(Page) : 7 of 8

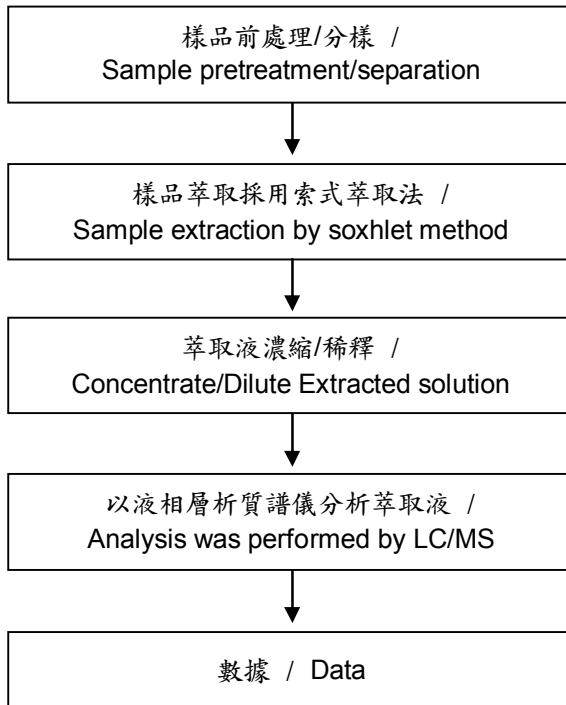


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TAIWAN R. O. C.

索式萃取(LC/MS)分析流程圖 / Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) 測試人員：傅莉雅 / Name of the person who made measurement: Lydia Fu
- 2) 測試負責人：陳新智 / Name of the person in charge of measurement: Shinjyh Chen

■ 測試項目(Test Items): 全氟辛烷磺酸/全氟辛酸(銨)、苯並三唑類化合物 /
PFOS/PFOA、Benzotriazole



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** 報告結尾(End of Report) **

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測試報告 Test Report

號碼(No.): CE/2010/60308A 日期(Date): 2010/06/24 頁數(Page): 1 of 6

詠德電線電纜股份有限公司

MULTITEK CABLE CORP.

桃園縣大園鄉田心村大觀路142號

NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : 裸銅線

樣品型號(Style/Item No.) : 裸銅線

買主/訂單號碼(Buyer/Order No.) : 詠德電線電纜股份有限公司 (MULTITEK CABLE CORP.)

生產或供應廠商(Manufacturer/Vendor) : 好友電線電纜股份有限公司 (FRIEND ELECTRIC WIRE AND CABLE CO., LTD.)

原產國(Country of Origin) : 台灣 (TAIWAN)

收件日期(Sample Receiving Date) : 2010/06/01

測試期間(Testing Period) : 2010/06/01 TO 2010/06/08

測試需求(Test Requested) : 參照 RoHS 2002/95/EC 及其修定指令要求. (In accordance with the RoHS Directive 2002/95/EC, and its amendment directives).

測試方法(Test Method) : 參考 IEC 62321: 2008方法檢測. (With reference to IEC 62321: 2008. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products).

- (1) 以感應耦合電漿原子發射光譜儀檢測鎘含量. / Determination of Cadmium by ICP-AES.
- (2) 以感應耦合電漿原子發射光譜儀檢測鉛含量. / Determination of Lead by ICP-AES.
- (3) 以感應耦合電漿原子發射光譜儀檢測汞含量. / Determination of Mercury by ICP-AES.
- (4) 以Spot test / boiling water extraction方法檢測六價鉻含量. / Determination of Hexavalent Chromium by Spot test / boiling water extraction Method.
- (5) 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量. / Determination of PBB and PBDE by GC/MS.

測試結果(Test Results) : 請見下一页 (Please refer to next pages).



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測試報告 Test Report

號碼(No.): CE/2010/60308A

日期(Date): 2010/06/24

頁數(Page): 2 of 6

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MULTITEK CABLE CORP.

桃園縣大園鄉田心村大觀路142號

NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN



測試結果(Test Results) 單位(Unit): mg/kg

測試項目 (Test Items)	測試方法 Method (Refer to)	結果 (Result)	方法偵測 極限值 (MDL)
		No.1	
鎘 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	n.d.	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 4
多溴聯苯總和 / Sum of PBBs		n.d.	-
一溴聯苯 / Monobromobiphenyl		n.d.	5
二溴聯苯 / Dibromobiphenyl		n.d.	5
三溴聯苯 / Tribromobiphenyl		n.d.	5
四溴聯苯 / Tetrabromobiphenyl		n.d.	5
五溴聯苯 / Pentabromobiphenyl		n.d.	5
六溴聯苯 / Hexabromobiphenyl		n.d.	5
七溴聯苯 / Heptabromobiphenyl		n.d.	5
八溴聯苯 / Octabromobiphenyl		n.d.	5
九溴聯苯 / Nonabromobiphenyl		n.d.	5
十溴聯苯 / Decabromobiphenyl		n.d.	5
多溴聯苯醚總和 / Sum of PBDEs	(5)	n.d.	-
一溴聯苯醚 / Monobromodiphenyl ether		n.d.	5
二溴聯苯醚 / Dibromodiphenyl ether		n.d.	5
三溴聯苯醚 / Tribromodiphenyl ether		n.d.	5
四溴聯苯醚 / Tetrabromodiphenyl ether		n.d.	5
五溴聯苯醚 / Pentabromodiphenyl ether		n.d.	5
六溴聯苯醚 / Hexabromodiphenyl ether		n.d.	5
七溴聯苯醚 / Heptabromodiphenyl ether		n.d.	5
八溴聯苯醚 / Octabromodiphenyl ether		n.d.	5
九溴聯苯醚 / Nonabromodiphenyl ether		n.d.	5
十溴聯苯醚 / Decabromodiphenyl ether		n.d.	5

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號碼(No.): CE/2010/60308A 日期(Date): 2010/06/24 頁數(Page): 3 of 6

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測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 銅色金屬線 (COPPER COLORED METAL WIRE)

備註 (Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = Not Detected (未檢出)

3. MDL = Method Detection Limit (方法偵測極限值)

4. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed. (當該測項無法確認時，測試樣品可藉由boiling-water-extraction測試方法進一步確認)

Boiling-water-extraction:

Negative = Absence of Cr(VI) coating / surface layer(鍍層中偵測不到六價鉻),

Positive = Presence of Cr(VI) coating / surface layer(鍍層中偵測到六價鉻);

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area. / 該溶液濃度 \geq 0.02 mg/kg with 50 cm² (sample surface area)

5. "-" = Not Regulated (無規格值)

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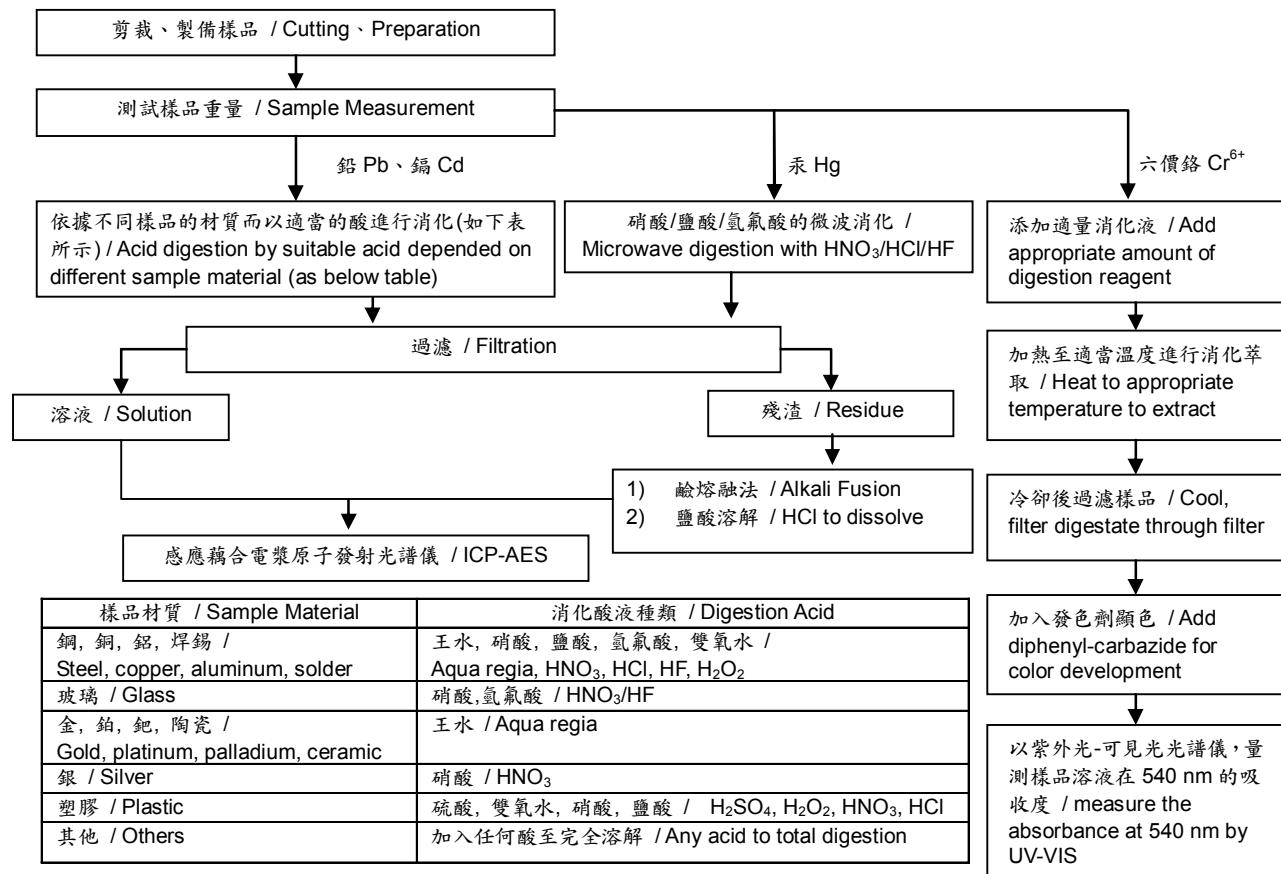
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人：張啓興 / Name of the person in charge of measurement: Troy Chang



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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

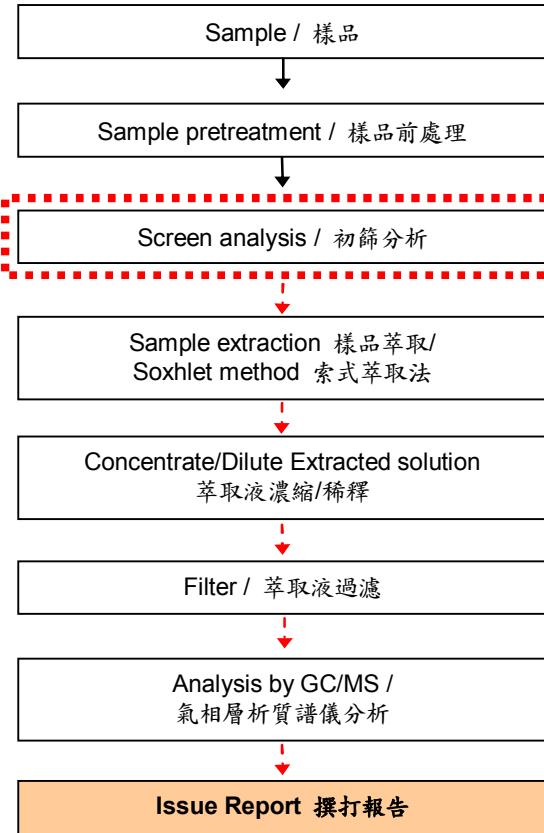
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初次測試程序 / First testing process —————→

選擇性篩檢程序 / Optional screen process→

確認程序 / Confirmation process - - - →



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測試報告 Test Report

詠德電線電纜股份有限公司

MULTITEK CABLE CORP.

桃園縣大園鄉田心村大觀路142號

NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN

號碼(No.): CE/2010/60308A 日期(Date): 2010/06/24 頁數(Page): 6 of 6



** 報告結尾(End of Report) **

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SGS Taiwan Ltd.
台灣檢驗科技股份有限公司 | Chemical-Taipei 33 WuChyuan Road, Wukoo Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五權路33號 t + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com

測試報告 (SVHC)**Test Report**

號碼(No.): CR/2010/60007A 日期(Date): 2010/06/24 頁數 : 1 of 14

詠德電線電纜股份有限公司

MULTITEK CABLE CORP.

桃園縣大園鄉田心村大觀路142號

NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN



以下測試樣品係由客戶送樣，且由客戶聲稱並經客戶確認如下 (The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : 裸銅線
樣品型號(Style/Item No.) : 裸銅線
買主/訂單號碼(Buyer/Order No.) : 詠德電線電纜股份有限公司 (MULTITEK CABLE CORP.)
生產或供應廠商(Manufacturer/Vendor) : 好友電線電纜股份有限公司 (FRIEND ELECTRIC WIRE AND CABLE CO., LTD.)
原產國(Country of Origin) : 台灣 (TAIWAN)
收件日期(Sample Receiving Date) : 2010/06/01
測試期間(Testing Period) : 2010/06/01 TO 2010/06/08

測試需求(Test Requested) : 30項高關注物質(SVHC)篩檢。高關注物質(SVHC)候選清單是根據歐洲化學總署(ECHA)於2010年3月30日，就關於REACH之Regulation (EC) No 1907/2006的公告。/ Thirty (30) Substances of Very High Concern (SVHC) screening. SVHC candidate list based on the publication by European Chemicals Agency (ECHA) on 2010 March 30, regarding Regulation (EC) No 1907/2006 concerning the REACH.

測試方法(Test Method) : 請見下頁 (Please refer to next pages).

測試結果(Test Results) : 請見下頁 (Please refer to next pages).

總結(Summary) : 根據指定規範和分析技術，送測樣品在現今報告限值下，高關注物質(SVHC)的濃度均小於0.1% (According to the specified scope and analytical technique, concentrations of all SVHC are <0.1% in the submitted sample(s)).



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台灣檢驗科技股份有限公司 | Chemical-Taipei 33 WuChyuan Road, Wukoo Industrial Zone, Taipei County, Taiwan / 台北縣五股工業區五權路33號 t + 886 (02)2299 3279 f + 886 (02)2299 3237 www.sgs.com

測試報告 (SVHC)

Test Report

號碼(No.): CR/2010/60007A 日期(Date): 2010/06/24 頁數 : 2 of 14

詠德電線電纜股份有限公司

MULTITEK CABLE CORP.

桃園縣大園鄉田心村大觀路142號

NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN



測試樣品 (Test Sample): 銅色金屬線 (COPPER COLORED METAL WIRE)

測試方法:

參照SGS內部方法RSTS-EE-SVHC-003, RSTS-EE-SVHC-004. 由感應耦合電漿原子發射光譜儀, 紫外光可見光譜儀, 氣相層析儀質譜儀, 液相層析質譜儀和氣相層析儀/火焰光度偵測器進行分析。(SGS In-House method-RSTS-EE-SVHC-003, RSTS-EE-SVHC-004. Analyzed by ICP-AES, UV-VIS, GC/MS, LC/MS and GC/FPD.)

備註:

1. 30項SVHC化學分析，依歐洲化學總署(ECHA)於2010年3月30日所公佈的清單，藉由現有的分析技術進行篩檢。這清單是由ECHA所評估且未來可受更改。(The chemical analysis of 30 SVHC is performed by means of currently available analytical techniques against the list published by ECHA on 2010 March 30. This list is under evaluation by ECHA and may subject to change in the future.)

請參照(refer to) http://echa.europa.eu/doc/press/pr_10_05_acrylamide_20100330.pdf

2. 根據Regulation (EC) No 1907/2006 中第7條款第2項之規定，如果物質合乎第57條款之標準以及可依據第59(1)條之規定鑑別，且同時符合下列兩項狀況，任何成品之製造人和進口人應向歐洲化學總署(ECHA)通報：

(a) 成品中所含物質每年超過1公噸。

(b) 依重量百分比計算，物質濃度超過0.1%。

In accordance with Regulation (EC) No 1907/2006, any producer or importer of articles shall notify ECHA, in accordance with paragraph 2 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation,

if (a) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w).

3. Regulation (EC) No 1907/2006中第 33 條要求成品供應商，其成品所含物質符合第57條款的標準並依照第59(1)條款確定其濃度大於0.1wt%，應提供成品接受者充份可取得資訊，以確保成品的安全使用(至少包括物質的名稱)。

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance.

4. 倘若SVHC超過限值，建議客戶確認含有該SVHC的零件，並要求實驗室進一步的定量分析而取得SVHC的確切濃度。

If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

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測試報告 (SVHC)

Test Report

號碼(No.): CR/2010/60007A

日期(Date): 2010/06/24

頁數 : 3 of 14

詠德電線電纜股份有限公司

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桃園縣大園鄉田心村大觀路142號

NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN



測試結果 (Test Results)

物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限值 (RL)	分類 (Classification)
蒽 / Anthracene (CAS No.: 000120-12-7)	%	n.d.	0.005	長期生物蓄積性及毒性物質 (PBT)
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane (CAS No.: 000101-77-9)	%	n.d.	0.005	致癌物質 類別 2 (Carcinogen Category 2)
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	n.d.	0.005	對生殖系統有害 類別 2 (Toxic to Reproduction Category 2)
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	n.d.	0.005	對生殖系統有害 類別 2 (Toxic to Reproduction Category 2)
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	n.d.	0.005	對生殖系統有害 類別 2 (Toxic to Reproduction Category 2)
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro-m-xylene (Musk Xylene) (CAS No.: 000081-15-2)	%	n.d.	0.005	高持久性和高生物蓄積性物質 (vPvB)
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 025637-99-4 and 003194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	%	n.d.	0.005	長期生物蓄積性及毒性物質 (PBT)
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8)	%	n.d.	0.01	長期生物蓄積性及毒性物質 (PBT)
三丁基錫氧化物 / Bis(tributyltin)oxide*** (CAS No.: 000056-35-9)	%	n.d.	-	長期生物蓄積性及毒性物質 (PBT)
二氯化鈷 / Cobalt dichloride (CAS No.: 007646-79-9)	%	n.d.	0.005	致癌物質 類別 2 (Carcinogen Category 2)

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測試報告 (SVHC)

Test Report

號碼(No.): CR/2010/60007A 日期(Date): 2010/06/24 頁數 : 4 of 14

詠德電線電纜股份有限公司

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物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限值 (RL)	分類 (Classification)
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 001303-28-2)	%	n.d.	-	致癌物質 類別 1 (Carcinogen Category 1)
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 001327-53-3)	%	n.d.	-	致癌物質 類別 1 (Carcinogen Category 1)
三乙基砷酸鹽 / Triethyl arsenate*** (CAS No.: 015606-95-8)	%	n.d.	-	致癌物質 類別 1 (Carcinogen Category 1)
砷酸氫鉛 / Lead hydrogen arsenate*** (CAS No.: 007784-40-9)	%	n.d.	-	致癌物質 類別 1; 對生殖系統有害 類別1 (Carcinogen Category 1; Toxic to Reproduction Category 1)
重鉻酸鈉 / Sodium dichromate*** (CAS No.: 010588-01-9(**))	%	n.d.	-	致癌物質 類別2; 導致基因突變 類別2; 對生殖系統有害 類別2 (Carcinogen Category 2; Mutagen Category 2; Toxic to Reproduction Category 2)
蒽油 / Anthracene oil (CAS No.: 090640-80-5) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
蒽油, 蔷糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights (CAS No.: 091995-17-4) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
蒽油, 蔷糊, 蔷餾分 / Anthracene oil, anthracene paste, anthracene fraction (CAS No.: 091995-15-2) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
蒽油, 含蒽量少 / Anthracene oil, anthracene-low (CAS No.: 090640-82-7) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
蒽油, 蔷糊 / Anthracene oil, anthracene paste (CAS No.: 090640-81-6) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
煤瀝青, 高溫 / Pitch, coal tar, high-temp. (CAS No.: 065996-93-2) (**)	%	n.d.	0.05	長期生物蓄積性及毒性物質 (PBT)
矽酸鋁, 耐火陶瓷纖維 / Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	致癌物質 類別 2 (Carcinogen Category 2)

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測試報告 (SVHC)

Test Report

號碼(No.): CR/2010/60007A 日期(Date): 2010/06/24 頁數 : 5 of 14

詠德電線電纜股份有限公司

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物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限值 (RL)	分類 (Classification)
鋯矽酸鋁, 耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	%	n.d.	0.05	致癌物質 類別 2 (Carcinogen Category 2)
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No.: 000084-69-5)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
2,4-二硝基甲苯 / 2,4-Dinitrotoluene (CAS No.: 000121-14-2)	%	n.d.	0.005	致癌物質 類別 2 (Carcinogen Category 2)
磷酸三(2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP) (CAS No.: 000115-96-8)	%	n.d.	0.005	對生殖系統有害 類別2 (Toxic to Reproduction Category 2)
鉻酸鉛 / Lead chromate (CAS No.: 007758-97-6)	%	n.d.	0.01	致癌物質 類別 2; 對生殖系統有害 類別1 (Carcinogen Category 2; Toxic to Reproduction Category 1)
鉬鉻紅; 顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104) (CAS No.: 012656-85-8)	%	n.d.	0.01	致癌物質 類別 2; 對生殖系統有害 類別1 (Carcinogen Category 2; Toxic to Reproduction Category 1)
鉻酸鉛; 顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34) (CAS No.: 001344-37-2)	%	n.d.	0.01	致癌物質 類別 2; 對生殖系統有害 類別1 (Carcinogen Category 2; Toxic to Reproduction Category 1)
丙烯醯胺 / Acrylamide (CAS No.: 000079-06-1)	%	n.d.	0.005	致癌物質 類別2; 導致基因突變 類別2 (Carcinogen Category 2; Mutagen Category 2)

備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = not detected = below Reporting Limit / 未檢出

3. RL = Reporting Limit / 報告極限值

4. 列於附錄A中之分類定義是根據67/548/EE以及Regulation (EC) No 1907/2006 (Definition of classification is listed in Appendix A of this report in accordance with 67/548/EEC and Regulation (EC) No 1907/2006)。

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測試報告 (SVHC)

Test Report

號碼(No.): CR/2010/60007A

日期(Date): 2010/06/24

頁數 : 6 of 14

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5. 各測試單元的濃度及重量請參閱附錄C. / Please refer to Appendix C to find the concentration and the weight of each tested unit.

6. "—" = Not Regulated (無規格值)

7. (*): 重鉻酸鈉二水合物(CAS No.: 007789-12-0)含量 = 重鉻酸鈉含量 × 1.1374

(conc. of Sodium dichromate dihydrate = conc. of sodium dichromate × 1.1374)

8. ***: 該物質是由"三丁基錫"或各別元素 (例如: 砷、鉛或六價鉻)之測試結果計算得知.

The substance was calculated by the test results of Tributyl Tin or element (Ex. Arsenic, Lead or Cr(VI) respectively).

AX = A × F

AX	A	F
五氧化二砷 / Diarsenic pentaoxide	砷 / Arsenic	1.5339
三氧化二砷 / Diarsenic trioxide		1.3203
三乙基砷酸鹽 / Triethyl arsenate		3.0179
砷酸氫鉛 / Lead hydrogen arsenate		4.6332
重鉻酸鈉 / Sodium dichromate	鉛 / Lead	1.6753
三丁基錫氧化物 / Bis(tributyltin)oxide	六價鉻 / Hexavalent Chromium Cr(VI)	2.5192
	三丁基錫 / Tributyl Tin (TBT)	1.0276

"砷酸氫鉛"之濃度是取砷及鉛兩者各別換算出砷酸氫鉛濃度，並取其之最小值做為最後出報告之依據.

(Regarding lead hydrogen arsenate lead and arsenic are tested and used for the calculation of the separated concentration of lead hydrogen arsenate. The final concentration of lead hydrogen arsenate for the report uses the minimum value of above-mentioned two concentration of lead hydrogen arsenate.)

測試結果如下(The test result is given as):

物質名稱 (Substance Name)	單位 (Unit)	成品濃度 (Concentration)	報告 極限值 (RL)
三丁基錫 / Tributyl Tin (TBT)	%	n.d.	0.005
砷 / Arsenic (As)	%	n.d.	0.005
鉛 / Lead (Pb)	%	n.d.	0.005
六價鉻 / Hexavalent Chromium Cr(VI)	%	n.d.	0.005

9. (**): 上述混合物的濃度是經由所獲得的成分比例介於被選擇標靶物及混合物所推估出來. / The concentrations of above-mentioned mixtures are evaluated per the gained composition rate between the selected marks and the

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測試報告 (SVHC)**Test Report**

號碼(No.): CR/2010/60007A 日期(Date): 2010/06/24 頁數 : 7 of 14

詠德電線電纜股份有限公司

MULTITEK CABLE CORP.

桃園縣大園鄉田心村大觀路142號

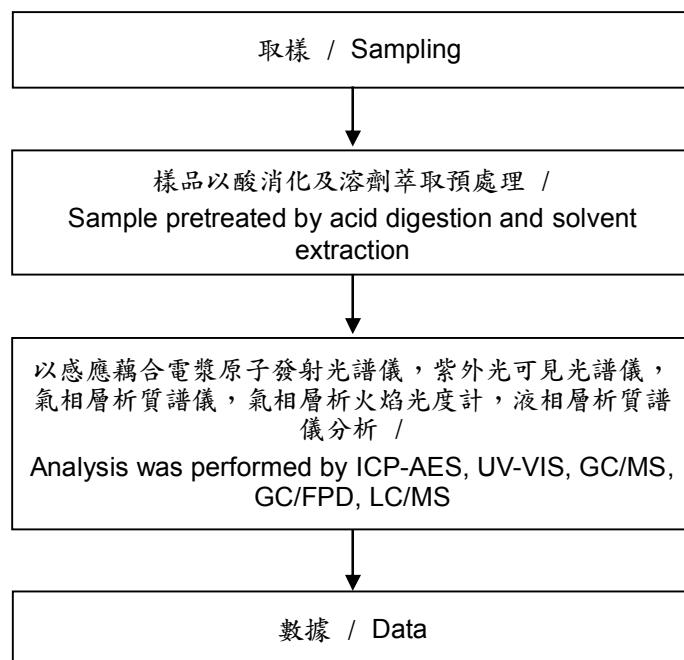
NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN

**SVHC 分析流程圖 / Analytical flow chart of SVHC**

1) 測試人員 : 翁賜彬/傅莉雅/周穗華/楊登偉 / Name of the person who made measurement:

Roman Wong/Lydia Fu/ Stacy Chou/ Climbgreat Yang

2) 測試負責人 : 龔振裕 / Name of the person in charge of measurement: Chenyu Kung



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測試報告 (SVHC)**Test Report**

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號碼(No.): CR/2010/60007A 日期(Date): 2010/06/24 頁數 : 8 of 14



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測試報告 (SVHC)

Test Report

號碼 (No.): CR/2010/60007A 日期 (Date): 2010/06/24 頁數 : 9 of 14

詠德電線電纜股份有限公司

MULTITEK CABLE CORP.

桃園縣大園鄉田心村大觀路142號

NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN



【附錄 (Appendix) A】

分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義 (Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
致癌物質 類別1 (Carcinogen Category 1):	已知會對人類致癌的物質。有足夠的證據證明人體暴露於該物質和癌症發展之間有相互的關聯性 (Substances known to be carcinogenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and the development of cancer)。
致癌物質 類別 2 (Carcinogen Category 2):	應被視為可能對人體會導致致癌的物質。有足夠的證據強力推論人體暴露於該物質可能導致癌症發展，上述基於下列研究所得之結果 (Substances which should be regarded as if they are carcinogenic to man. There is sufficient evidence to provide a strong presumption that human exposure to a substance may result in the development of cancer. Generally on the basis of): <ul style="list-style-type: none">- 適當的長期動物實驗 (appropriate long-term animal studies)。- 其他相關資訊 (other relevant information)。
導致基因突變 類別1 (Mutagen Category 1):	已知會對人類導致基因突變的物質。有足夠的證據證明人體暴露於該物質和遺傳基因損害之間之間有相互的關聯性 (Substances known to be mutagenic to man. There is sufficient evidence to establish a causal association between human exposure to a substance and heritable genetic damage)。
導致基因突變 類別2 (Mutagen Category 2):	應被視為是否對人體會導致基因突變的物質。有足夠的證據強力推論人體暴露於該物質可能導致遺傳基因損害，上述基於下列研究所得之結果 (Substances which should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of): <ul style="list-style-type: none">- 適當的長期動物實驗 (appropriate animal studies)。- 其他相關資訊 (other relevant information)。
對生殖系統有害 類別1 (Toxic to Reproduction Category 1) :	已知會損害人體生殖能力的物質。有足夠的證據證明人體暴露於該物質和生殖能力削弱之間有相互的關聯性 (Substances known to impair fertility in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and impaired fertility)。 已知會在人體引起毒性的物質。有足夠的證據證明人體暴露於該物質和其後產生之毒性對後代造成影響有相互之關聯性 (Substances known to cause developmental toxicity in humans. There is sufficient evidence to establish a causal relationship between human exposure to the substance and subsequent developmental toxic effects in the progeny)。

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測試報告 (SVHC)

Test Report

詠德電線電纜股份有限公司

MULTITEK CABLE CORP.

桃園縣大園鄉田心村大觀路142號

NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN

號碼(No.): CR/2010/60007A 日期(Date): 2010/06/24 頁數 : 10 of 14



分類 (Classification)	67/548/EEC以及Regulation (EC) No 1907/2006下的定義 (Definition under 67/548/EEC and Regulation (EC) No 1907/2006)
<p>對生殖系統有害 類別2 (Toxic to Reproduction Category 2) :</p>	<p>應被視為可能會損害人體生殖能力的物質。有足夠的證據證明人體暴露於該物質可能導致損害人體生殖能力的有力推論，上述基於下列研究所得之結果 (Substances which should be regarded as if they impair fertility in humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in impaired fertility on the basis of) :</p> <ul style="list-style-type: none"> - 缺少毒性作用的生殖能力削弱動物實驗中的明顯證據，或在同使用量下其他毒性作用但不是其他毒性作用的輔助非特定結果的生殖能力削弱證據 (clear evidence in animal studies of impaired fertility in the absence of toxic effects, or, evidence of impaired fertility occurring at around the same dose levels as other toxic effects but which is not a secondary nonspecific consequence of the other toxic effects) - 其他相關資訊 (other relevant information) 應被視為可能在人體引起毒性發展的物質有足夠的證據提供人體暴露於該物質可能引起毒性發展的有力推論，整體而言是基於 (Substances which should be regarded as if they cause developmental toxicity to humans. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in developmental toxicity, generally on the basis of) : - 在適當動物實驗研究所進行缺乏顯著母體毒性徵象或在同使用量下其他毒性作用但不是其他毒性作用的輔助非特定結果的生殖能力削弱證據觀察，所得到之明顯結果 (clear results in appropriate animal studies where effects have been observed in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of the other toxic effects)。 - 其他相關資訊 (other relevant information)
<p>長期生物蓄積性及毒性物質 & 高持久性和高生物蓄積性物質 (PBT & vPvB):</p>	<p>長期生物蓄積性及毒性物質(PBT)或高持久性和高生物蓄積性物質(vPvB)造成化學安全管理上特別挑戰。這些物質在環境中無法用一個"安全"濃度建立足夠的可靠度。/ Substances which are persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) pose a particular challenge to the chemicals safety management. For these substances a "safe" concentration in the environment cannot be established with sufficient reliability.</p>

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測試報告 (SVHC)

Test Report

號碼(No.): CR/2010/60007A 日期(Date): 2010/06/24 頁數 : 11 of 14

詠德電線電纜股份有限公司

MULTITEK CABLE CORP.

桃園縣大園鄉田心村大觀路142號

NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN



【附錄 (Appendix) B】

SVHC 調查表(SURVEY FORM)

公司名稱(Company Name) :	詠德電線電纜股份有限公司 (MULTITEK CABLE CORP.)		
樣品名稱(Product Name) :	裸銅線		
產品/取樣重量(Product/Sampling weight) :	30 g		
報告號碼(Report No.) :	CR/2010/60007A		
物質鑑定(Substance identification)			
物質名稱 (Substance name)	成品濃度 (Concentration) (%)	重量 (weight) (mg)	安全資訊的提供, 根據Article 33 (providing information about safe use according to Article 33 is necessary)
蒽/ Anthracene	n.d.	N/A	No
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane	n.d.	N/A	No
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate)	n.d.	N/A	No
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate)	n.d.	N/A	No
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate)	n.d.	N/A	No
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	N/A	No
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)	n.d.	N/A	No
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	N/A	No
三丁基錫氧化物 / Bis(tributyltin)oxide	n.d.	N/A	No
二氯化鈷 / Cobalt dichloride	n.d.	N/A	No
五氧化二砷 / Diarsenic pentaoxide	n.d.	N/A	No
三氧化二砷 / Diarsenic trioxide	n.d.	N/A	No
三乙基砷酸鹽 / Triethyl arsenate	n.d.	N/A	No
砷酸氫鉛 / Lead hydrogen arsenate	n.d.	N/A	No
重鉻酸鈉 / Sodium dichromate	n.d.	N/A	No
蒽油 / Anthracene oil	n.d.	N/A	No

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測試報告 (SVHC)

Test Report

號碼(No.): CR/2010/60007A 日期(Date): 2010/06/24 頁數 : 12 of 14

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NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN



物質名稱 (Substance name)	成品濃度 (Concentration) (%)	重量 (weight) (mg)	安全資訊的提供, 根據Article 33 (providing information about safe use according to Article 33 is necessary)
蒽油, 蔥糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights	n.d.	N/A	No
蒽油, 蔥糊, 蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction	n.d.	N/A	No
蒽油, 含蒽量少 / Anthracene oil, anthracene-low	n.d.	N/A	No
蒽油, 蔥糊 / Anthracene oil, anthracene paste	n.d.	N/A	No
煤瀝青, 高溫 / Pitch, coal tar, high-temp.	n.d.	N/A	No
矽酸鋁, 耐火陶瓷纖維 / Aluminosilicate, Refractory Ceramic Fibres	n.d.	N/A	No
鋯矽酸鋁, 耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	n.d.	N/A	No
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate)	n.d.	N/A	No
2,4-二硝基甲苯 / 2,4-Dinitrotoluene	n.d.	N/A	No
磷酸三(2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP)	n.d.	N/A	No
鉻酸鉛 / Lead chromate	n.d.	N/A	No
鉑鉻紅; 顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	N/A	No
鉻酸鉛; 顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	N/A	No
丙烯醯胺 / Acrylamide	n.d.	N/A	No

備註(Note): N/A = 不適用 (Non-Available)

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測試報告 (SVHC)

Test Report

號碼(No.): CR/2010/60007A

日期(Date): 2010/06/24

頁數 : 13 of 14

詠德電線電纜股份有限公司

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桃園縣大園鄉田心村大觀路142號

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【附錄 (Appendix) C】

測試單元(Tested Unit)No.1: 銅色金屬線 (COPPER COLORED METAL WIRE) (重量Weight: 30g)

物質名稱 (Substance Name)	濃度 (Concentration) (%)	報告 極限值 (RL)	樣品圖 (Sample Picture)
蒽/ Anthracene	n.d.	0.005	
4,4' - 二氨基二苯甲烷 / 4,4' - Diaminodiphenylmethane	n.d.	0.005	
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate)	n.d.	0.005	
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate)	n.d.	0.005	
鄰苯二甲酸二 (2-乙基己基) 酯 / DEHP (Di- (2-ethylhexyl) phthalate)	n.d.	0.005	
二甲苯麝香 / 5-tert-butyl-2,4,6-trinitro- m-xylene (Musk Xylene)	n.d.	0.005	
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD)	n.d.	0.005	
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	n.d.	0.01	
三丁基錫 / Tributyl Tin (TBT)	n.d.	0.005	
三丁基錫氧化物 / Bis(tributyltin)oxide	n.d.	-	
二氯化鈷 / Cobalt dichloride	n.d.	0.005	
砷 / Arsenic (As)	n.d.	0.005	
五氧化二砷 / Diarsenic pentoxide	n.d.	-	
三氧化二砷 / Diarsenic trioxide	n.d.	-	
三乙基砷酸鹽 / Triethyl arsenate	n.d.	-	
鉛 / Lead (Pb)	n.d.	0.005	
砷酸氫鉛 / Lead hydrogen arsenate	n.d.	-	
六價鉻 / Hexavalent Chromium Cr(VI)	n.d.	0.005	
重鉻酸鈉 / Sodium dichromate	n.d.	-	
蒽油 / Anthracene oil	n.d.	0.05	
蒽油, 蔷糊, 輕油 / Anthracene oil, anthracene paste, distn. Lights	n.d.	0.05	

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測試報告 (SVHC)

Test Report

號碼 (No.): CR/2010/60007A 日期 (Date): 2010/06/24 頁數 : 14 of 14

詠德電線電纜股份有限公司

MULTITEK CABLE CORP.

桃園縣大園鄉田心村大觀路142號

NO. 142, TA KUAN RD., TA-YUAN HSIAN, TAOYUAN HSIEN 337, TAIWAN



物質名稱 (Substance Name)	濃度 (Concentration) (%)	報告 極限值 (RL)	樣品圖 (Sample Picture)
蒽油, 蔥糊, 蔥餾分 / Anthracene oil, anthracene paste, anthracene fraction	n.d.	0.05	
蒽油, 含蒽量少 / Anthracene oil, anthracene-low	n.d.	0.05	
蒽油, 蔥糊 / Anthracene oil, anthracene paste	n.d.	0.05	
煤瀝青, 高溫 / Pitch, coal tar, high-temp.	n.d.	0.05	
矽酸鋁, 耐火陶瓷纖維 / Aluminosilicate, Refractory Ceramic Fibres	n.d.	0.05	
鋯矽酸鋁, 耐火陶瓷纖維 / Zirconia Aluminosilicate, Refractory Ceramic Fibres	n.d.	0.05	
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate)	n.d.	0.005	
2,4-二硝基甲苯 / 2,4-Dinitrotoluene	n.d.	0.005	
磷酸三(2-氯乙基)酯 / Tris(2-chloroethyl) phosphate (TCEP)	n.d.	0.005	
鉻酸鉛 / Lead chromate	n.d.	0.01	
銅鉻紅; 顏色索引: 顏料紅104 / Lead chromate molybdate sulphate red (C.I. Pigment Red 104)	n.d.	0.01	
鉻酸鉛; 顏色索引: 顏料黃34 / Lead sulfochromate yellow (C.I. Pigment Yellow 34)	n.d.	0.01	
丙烯醯胺 / Acrylamide	n.d.	0.005	

備註:

- 整個成品的平均濃度可以依據下列公式被計算得之. (The average concentration of a whole article can be calculated per the following formula.)

$$C_{Average\ of\ Article} = \frac{\sum_{i=1}^n (C_i * W_i)}{\sum_{i=1}^n (W_i)}$$

C_i : 單一SVHC測項在各測試單元中的濃度 (Concentration of a SVHC item in each tested unit)

W_i : 各測試單元的重量 (Weight of each tested unit)

$C_{Average\ of\ Article}$: 整個成品的平均濃度 (Average concentration of a whole article)

** 報告結尾 (End of Report) **

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Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 1 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

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

Sample Description : NYLON 66 UL94-V0
Sample Receiving Date : 2013/01/02
Testing Period : 2013/01/02 TO 2013/01/14
Sample Submitted By : EVER CONNECTOR INDUSTRIAL CO., LTD

Test Result(s) : Please refer to next page(s).

Ray Chang
Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited



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Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 2 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Test Result(s)

PART NAME NO.1 : WHITE NYLON 66 UL94-V0

Test Item (s):	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Sum of PBBs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
Sum of PBDEs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.

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Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 3 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Perfluorooctane sulfonates (PFOS - Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
PFOA (CAS No.: 335-67-1)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
Halogen				
Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 022537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Phthalates				
BBP (Benzyl butyl phthalate) (CAS No.: 000085-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DBP (Dibutyl phthalate) (CAS No.: 000084-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 000117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 026761-40-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
DINP (Di-isonyl phthalate) (CAS No.: 028553-12-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
DNOP (Di-n-octyl phthalate) (CAS No.: 000117-84-0)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.

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Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 4 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Polynuclear Aromatic Hydrocarbons (PAHs)				
Phenanthrene (CAS No.: 85-01-8)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Pyrene (CAS No.: 129-00-0)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Naphthalene (CAS No.: 91-20-3)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Fluorene (CAS No.: 86-73-7)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Fluoranthene (CAS No.: 206-44-0)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Chrysene (CAS No.: 218-01-9)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[g,h,i]perylene (CAS No.: 191-24-2)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[a]pyrene (CAS No.: 50-32-8)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.

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Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 5 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Anthracene (CAS No.: 120-12-7)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Acenaphthylene (CAS No.: 208-96-8)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Acenaphthene (CAS No.: 83-32-9)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg	With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS.	0.2	n.d.
Sum of 18 PAHs	mg/kg	-	-	n.d.

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Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 6 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Note : 1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. "-" = Not Regulated

Reference information:

Requirement of ZEK 01.4-08 : Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or toys for children aged < 36 months with intended skin contact.	Materials not falling under category 1 with foreseeable contact to skin for longer than 30 seconds (long-term skin contact).	Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact).
Benzo[a]pyrene (mg/kg)	<MDL (<0.2)**	1	20
Sum of 18 PAH (mg/kg)*	<MDL (<0.2)**	10	200

Remark : * = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

** = If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.

PFOS Reference Information : POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1% (1000ppm), in textiles or other coated materials above 1 μ g/m².

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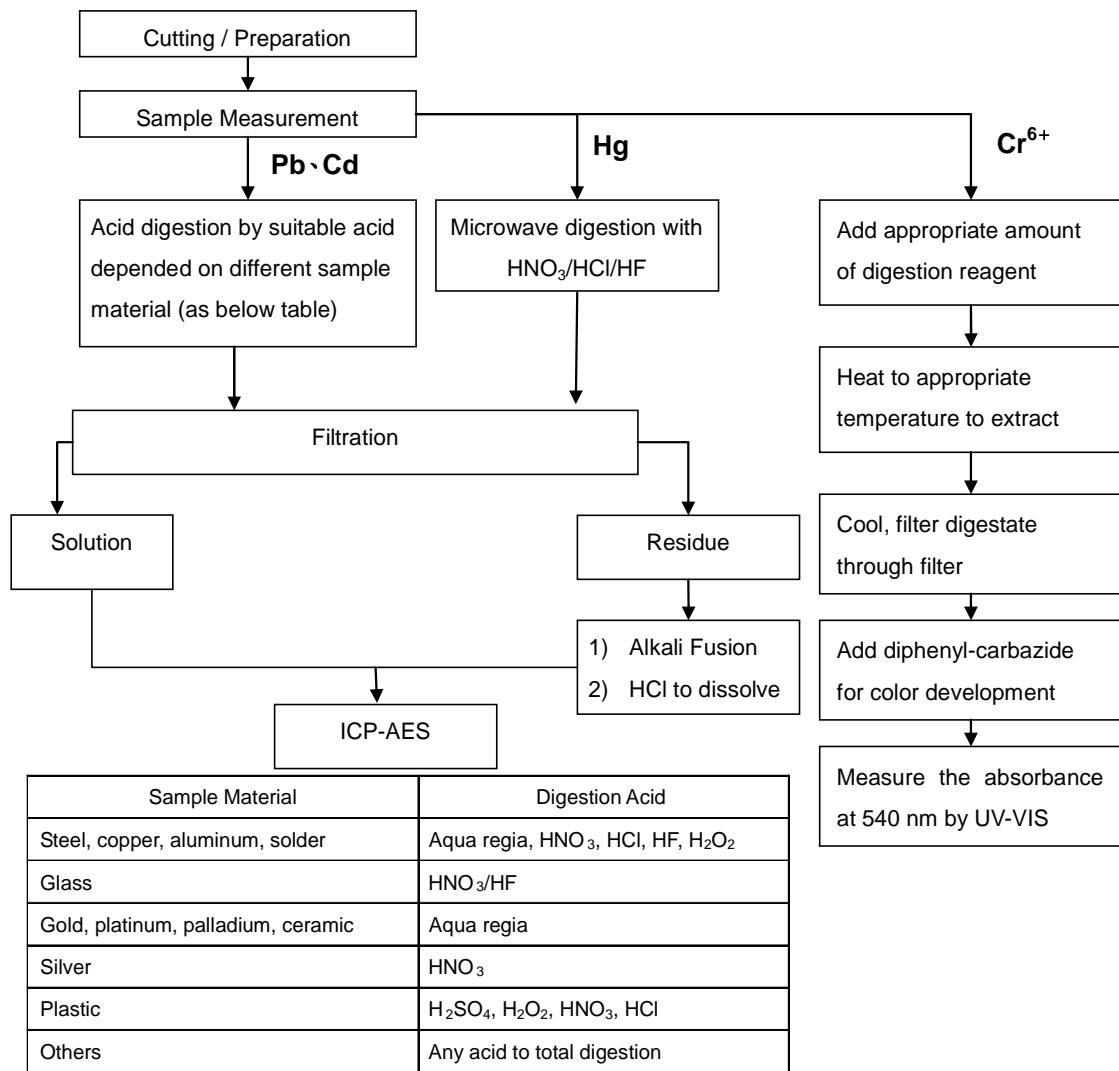
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Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 7 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Alex Chang
- 3) Name of the person in charge of measurement: Ray Chang



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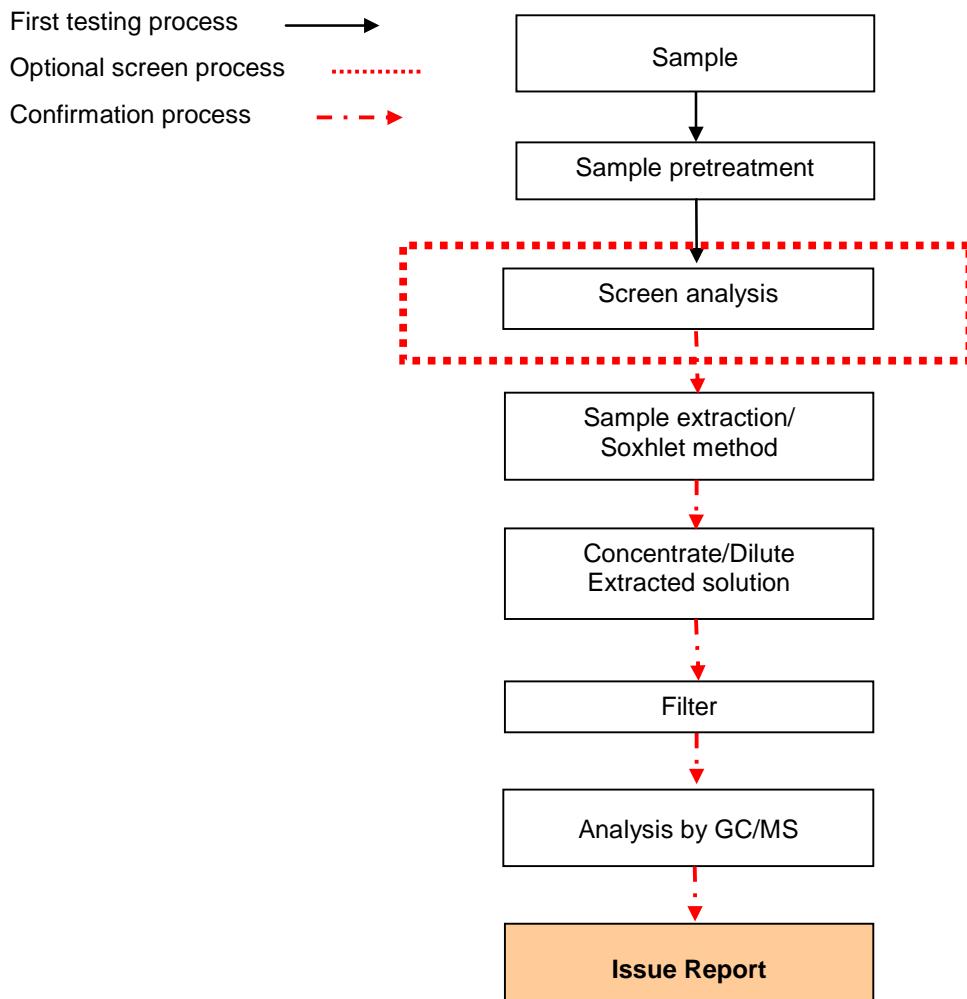
Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 8 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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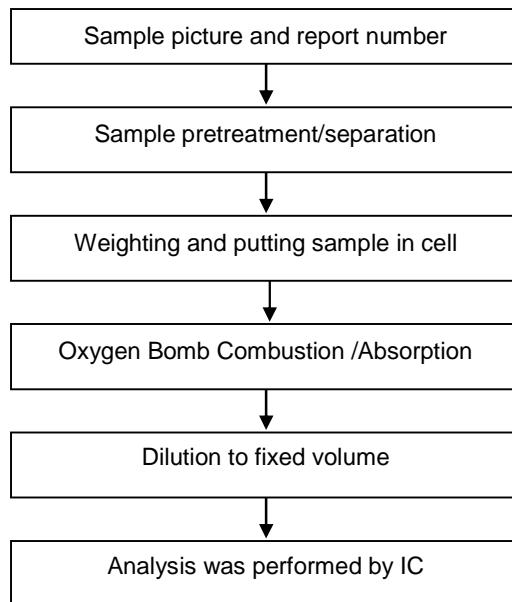
Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 9 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Jean Hung
- 2) Name of the person in charge of measurement: Ray Chang



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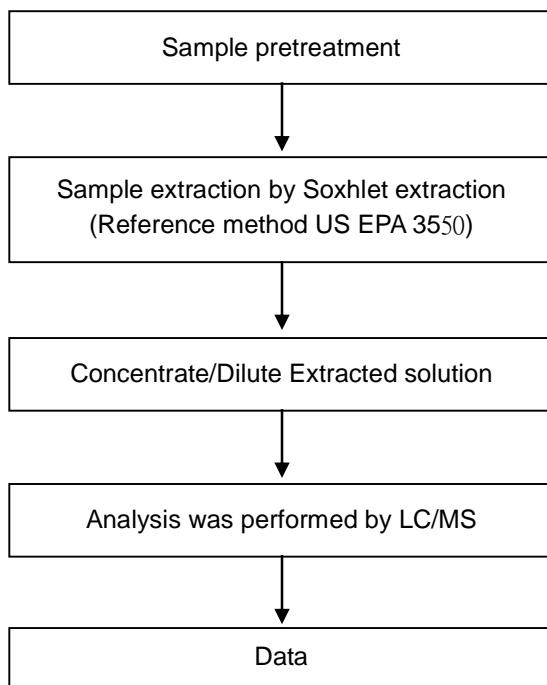
Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 10 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Analytical flow chart of PFOA/PFOS content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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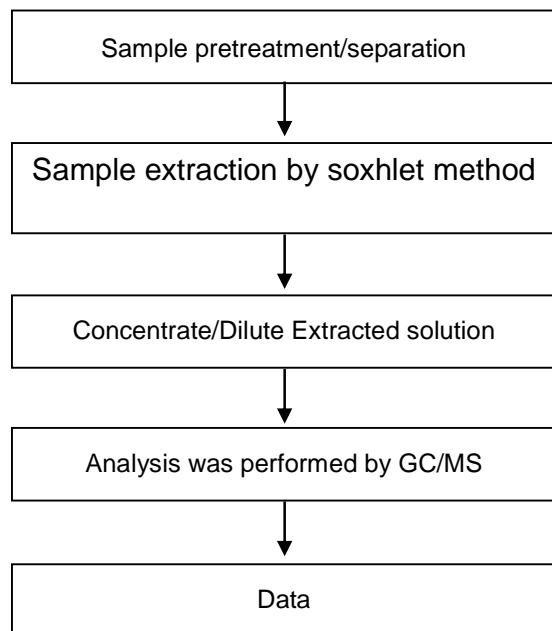
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No. : KA/2013/10001 Date : 2013/01/14 Page : 11 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Analytical flow chart of phthalate content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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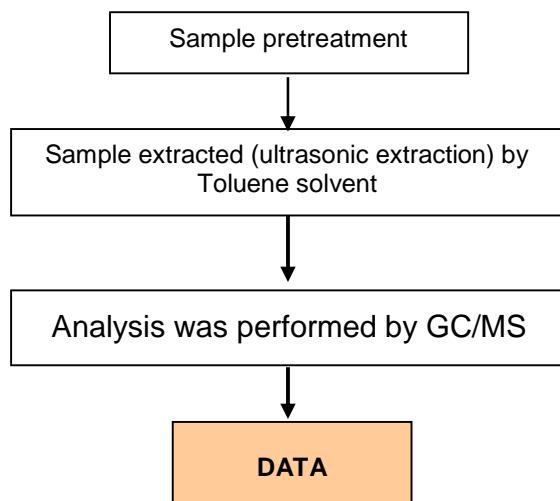
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No. : KA/2013/10001 Date : 2013/01/14 Page : 12 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

PAHs (PolyAromaticHydrocarbons) analytical flow chart

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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Test Report

No. : KA/2013/10001 Date : 2013/01/14 Page : 13 of 13

EVER CONNECTOR INDUSTRIAL CO., LTD
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

KA/2013/10001



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Test Report

No. : KA/2013/10008 Date : 2013/01/14 Page : 1 of 7

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

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

Sample Description : TERMINAL-PHOSPHOR BRONZE
Sample Receiving Date : 2013/01/02
Testing Period : 2013/01/02 TO 2013/01/14
Sample Submitted By : EVER CONNECTOR INDUSTRIAL CO., LTD

Test Result(s) : Please refer to next page(s).


Ray Chang / Asst. Manager
Signed for and on behalf of
SGS Taiwan Limited

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No. : KA/2013/10008 Date : 2013/01/14 Page : 2 of 7

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Test Result(s)

PART NAME NO.1 : SILVER TERMINAL-PHOSPHOR BRONZE

Test Item (s):	Unit	Method	MDL	Result
				No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	65.8
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by boiling water extraction#	**	With reference to IEC 62321: 2008 and performed by boiling water extraction Method.	0.02mg/kg with 50 cm ² surface area	Negative
Perfluorooctane sulfonates (PFOS - Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
PFOA (CAS No.: 335-67-1)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
Sum of PBBs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.

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Test Report

No. : KA/2013/10008 Date : 2013/01/14 Page : 3 of 7

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Test Item (s):	Unit	Method	MDL	Result
				No.1
Sum of PBDEs	mg/kg	With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether			5	n.d.
Tetrabromodiphenyl ether			5	n.d.
Pentabromodiphenyl ether			5	n.d.
Hexabromodiphenyl ether			5	n.d.
Heptabromodiphenyl ether			5	n.d.
Octabromodiphenyl ether			5	n.d.
Nonabromodiphenyl ether			5	n.d.
Decabromodiphenyl ether			5	n.d.

Note : 1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. " - " = Not Regulated

5. ** = Qualitative analysis (No Unit)

6. # = a. Positive means the presence of CrVI on the tested areas

b. Negative means the absence of CrVI on the tested areas

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas .

PFOS Reference Information : POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1 μ g/m².

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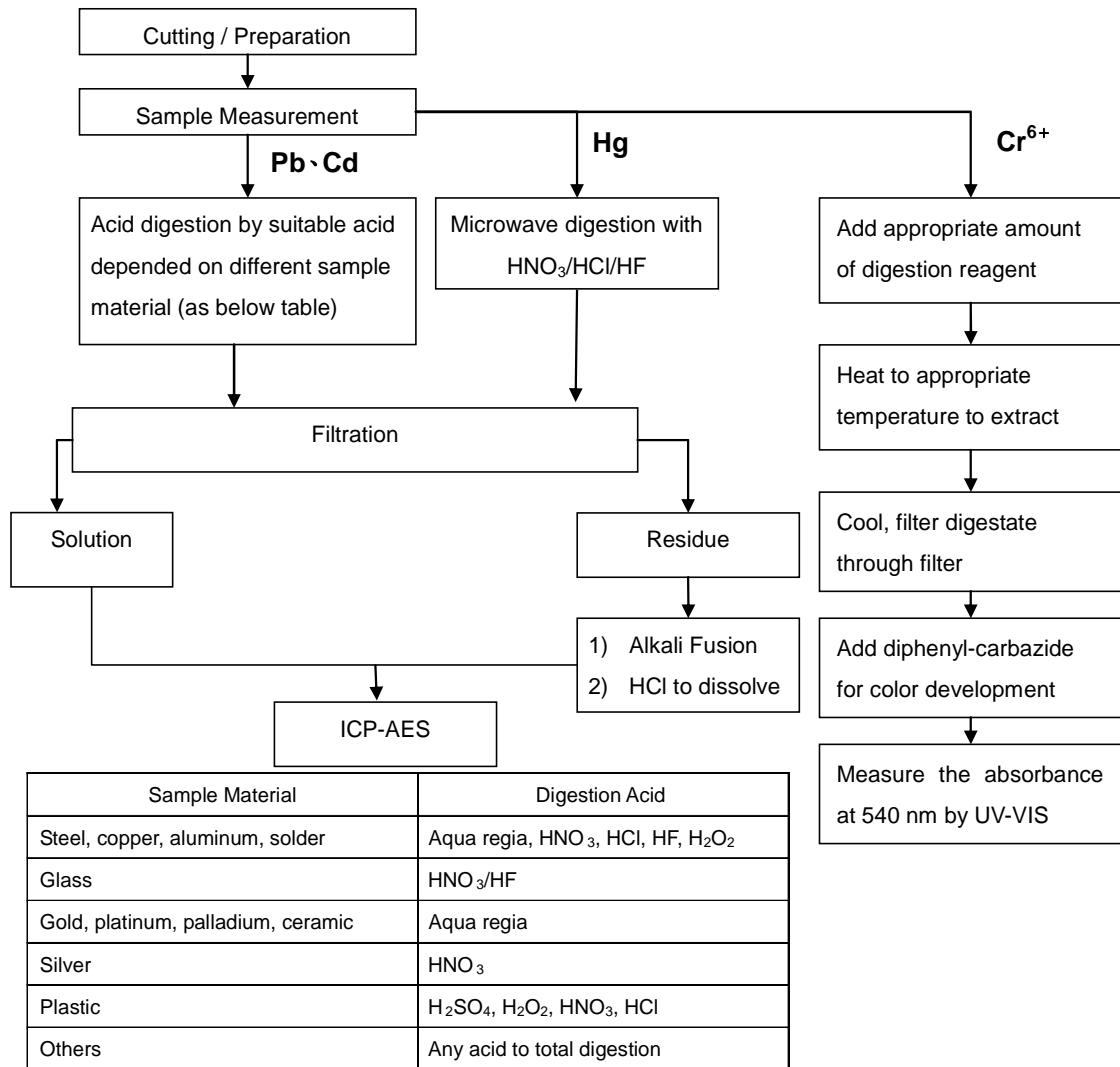
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No. : KA/2013/10008 Date : 2013/01/14 Page : 4 of 7

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Alex Chang
- 3) Name of the person in charge of measurement: Ray Chang



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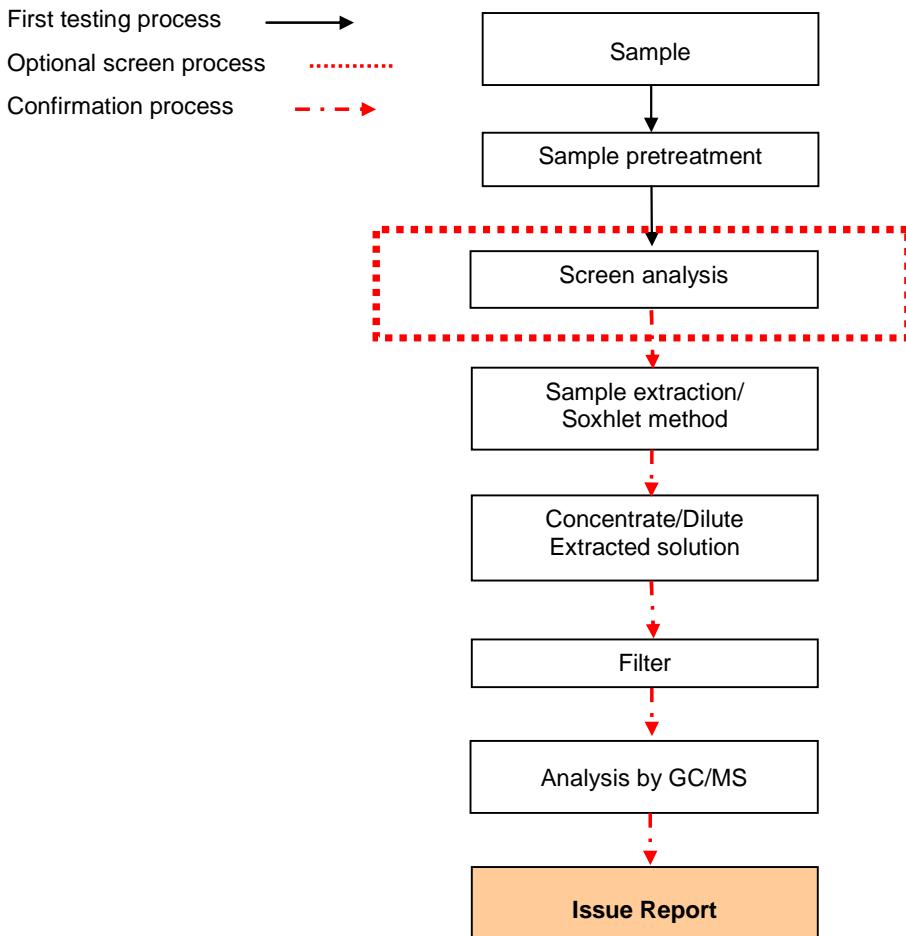
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No. : KA/2013/10008 Date : 2013/01/14 Page : 5 of 7

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

PBB/PBDE analytical FLOW CHART

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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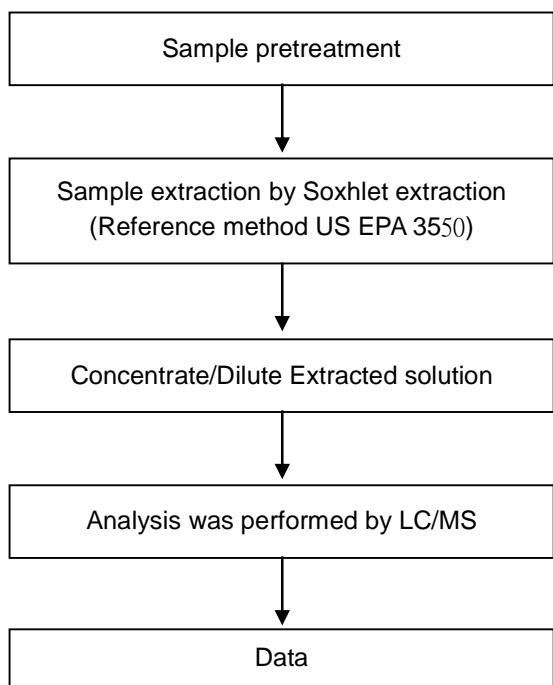
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No. : KA/2013/10008 Date : 2013/01/14 Page : 6 of 7

EVER CONNECTOR INDUSTRIAL CO., LTD
NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

Analytical flow chart of PFOA/PFOS content

- 1) Name of the person who made measurement: Anson Tsao
- 2) Name of the person in charge of measurement: Ray Chang



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Test Report

Report No. RLSZE001217490002

Page 1 of 9

Applicant HAMBURG INDUSTRIES CO., LTD.

Address 6F., NO.12, LANE 270, SEC.3, PEISHEN RD., SHEN KENG DISTRICT, NEW TAIPEI CITY, TAIWAN 222

Report on the submitted sample(s) said to be

Sample Name Heat Shrinkable Polyolefin Tubing (Halogen Free)

Sample Description Black plastic tube

Part No. HAMBURG-A H-2 & H-2(CB)

Item/Lot No. 12010000041

Material Polyolefin

Sample Received Date Mar. 22, 2012

Testing Period Mar. 22, 2012 to Mar. 26, 2012

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), Three Phthalates (DBP,BBP,DEHP), Hexabromocyclododecane(HBCDD), Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I), Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA), Tetrabromobisphenol-A (TBBP-A), Phthalates in the submitted sample(s).
- As specified by client, to screen the Antimony trioxide in the submitted sample.

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

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

Tested by

Rick

Inspected by

Vargas

Approved by

Douglas

Date

Mar. 26, 2012

Technical Manager

No. 15502844



Test Report

Report No. RLSZE001217490002

Page 2 of 9

Test Method

Test Item(s)	Test Method	Measured Equipment(s)	MDL
Lead(Pb)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	2 mg/kg
Antimony trioxide (Sb ₂ O ₃)*	Refer to US EPA 3052:1996	ICP-OES	5 mg/kg
Polybrominated Biphenyls(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Fluorine(F)	Refer to BS EN 14582:2007	IC	10 mg/kg
Chlorine(Cl)	Refer to BS EN 14582:2007	IC	10 mg/kg
Bromine(Br)	Refer to BS EN 14582:2007	IC	10 mg/kg
Iodine(I)	Refer to BS EN 14582:2007	IC	10 mg/kg
Phthalates	Refer to EN 14372:2004	GC-MS	50 mg/kg
Perfluorooctane Sulfonates(PFOS)	Refer to US EPA 3550C:2007	LC-MS-MS	5 mg/kg
Perfluorooctanoic Acid(PFOA)	Refer to US EPA 3550C:2007	LC-MS-MS	5 mg/kg
Tetrabromobisphenol-A (TBBP-A)	Refer to US EPA 3540C:1996	GC-MS	5 mg/kg
Three Phthalates (DBP,BBP,DEHP)	Refer to EN 14372:2004	GC-MS	50 mg/kg
Hexabromocyclododecane(HBCDD)	Refer to US EPA 3540C:1996	GC-MS	5 mg/kg

Test Result(s)

Tested Item(s)	Content
Lead(Pb)	N.D.
Cadmium (Cd)	N.D.
Mercury(Hg)	N.D.
Hexavalent Chromium(Cr(VI))	N.D.
Antimony trioxide (Sb ₂ O ₃)*	N.D.



Test Report

Report No. RLSZE001217490002

Page 3 of 9

Tested Item(s)	Content
Polybrominated Biphenyls(PBBs)	
Monobromobiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromobiphenyl	N.D.
Decabromobiphenyl	N.D.
Tested Item(s)	Content
Polybrominated Diphenyl Ethers(PBDEs)	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.
Tested Item(s)	Content
Halogen(s)	
Fluorine (F)	N.D.
Chlorine (Cl)	N.D.
Bromine (Br)	N.D.
Iodine (I)	N.D.

Test Report

Report No. RLSZE001217490002

Page 4 of 9

Tested Item(s)	Content
Perfluorooctane Sulfonates(PFOS)	N.D.
Perfluorooctanoic Acid (PFOA)	N.D.
Tetrabromobisphenol-A (TBBP-A)	N.D.
Hexabromocyclododecane (HBCDD)	N.D.

Tested Item(s)	CAS No.	EC No.	Content
Phthalates			
Diisobutyl phthalate(DIBP)	84-69-5	201-553-2	N.D.
Dibutyl phthalate(DBP)	84-74-2	201-557-4	N.D.
Butylbenzyl phthalate(BBP)	85-68-7	201-622-7	N.D.
Di-2-ethylhexyl phthalate(DEHP)	117-81-7	204-211-0	N.D.
Di-n-octyl phthalate(DNOP)	117-84-0	204-214-7	N.D.
Diisononyl phthalate(DINP)	28553-12-0	249-079-5	N.D.
Diisodecyl phthalate(DIDP)	26761-40-0	247-977-1	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	201-559-5	N.D.

Tested Item(s)	CAS No.	EC No.	Content
Three Phthalates			
Dibutyl phthalate(DBP)	84-74-2	201-557-4	N.D.
Benzylbutyl phthalate(BBP)	85-68-7	201-622-7	N.D.
Di-2-ethylhexyl phthalate(DEHP)	117-81-7	204-211-0	N.D.

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

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

Remark: * Calculated result of Antimony trioxide is based on the result of Antimony (Sb).
The Report Limit is evaluated for element Antimony(Sb).

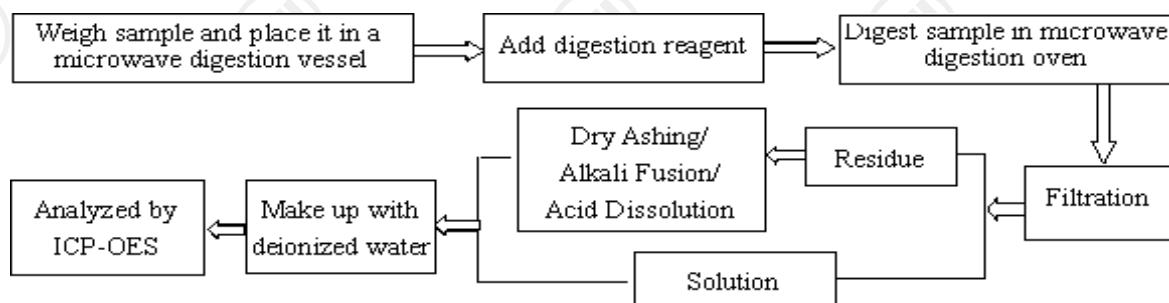
Test Report

Report No. RLSZE001217490002

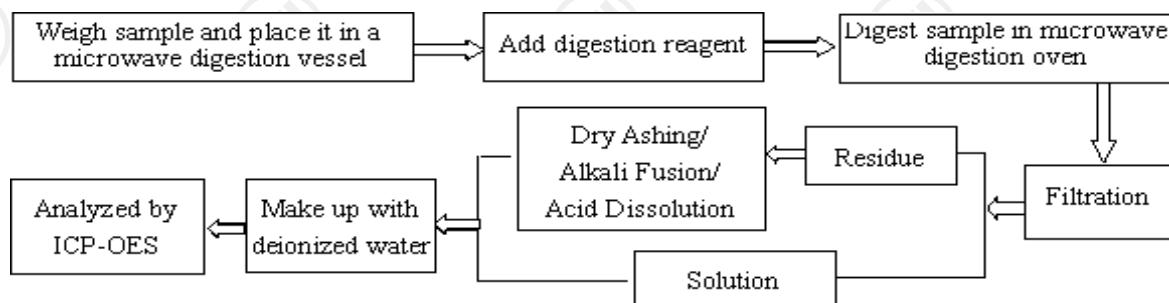
Page 5 of 9

Test Process

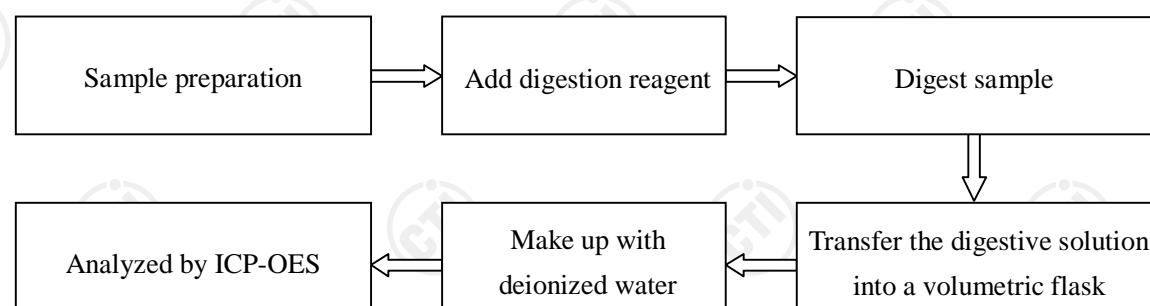
1. Lead(Pb), Cadmium(Cd)



2. Mercury(Hg)



3. Antimony trioxide (Sb₂O₃)

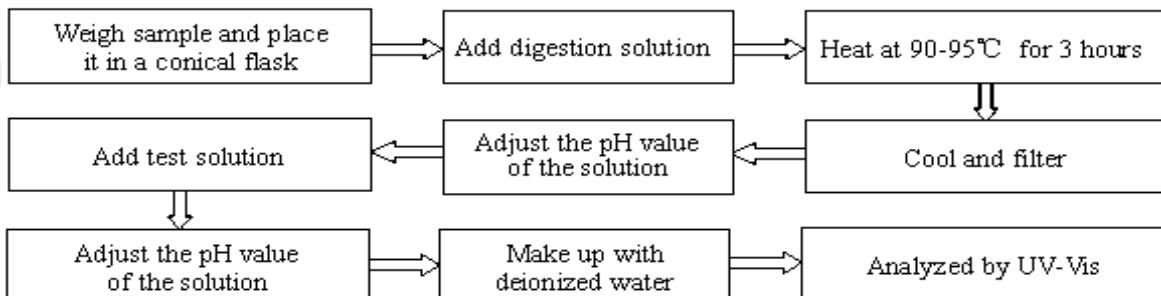


Test Report

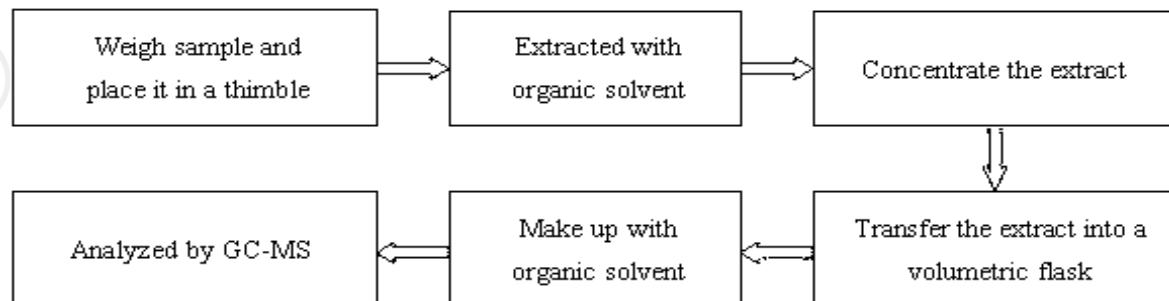
Report No. RLSZE001217490002

Page 6 of 9

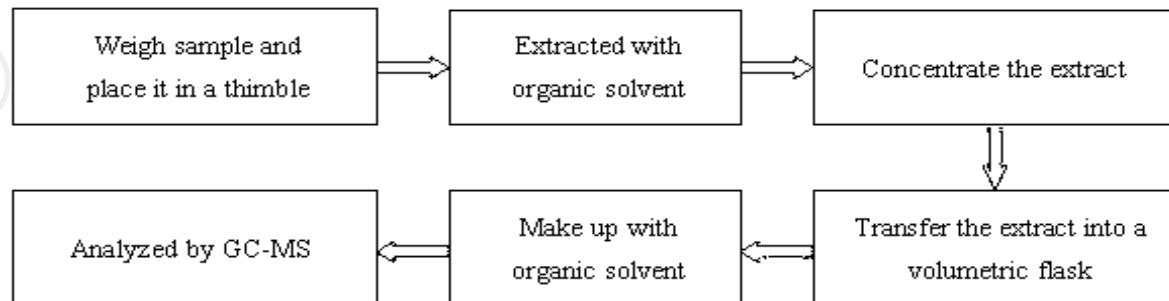
4. Hexavalent Chromium(Cr(VI))



5. Phthalates, Three Phthalates (DBP, BBP, DEHP)



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

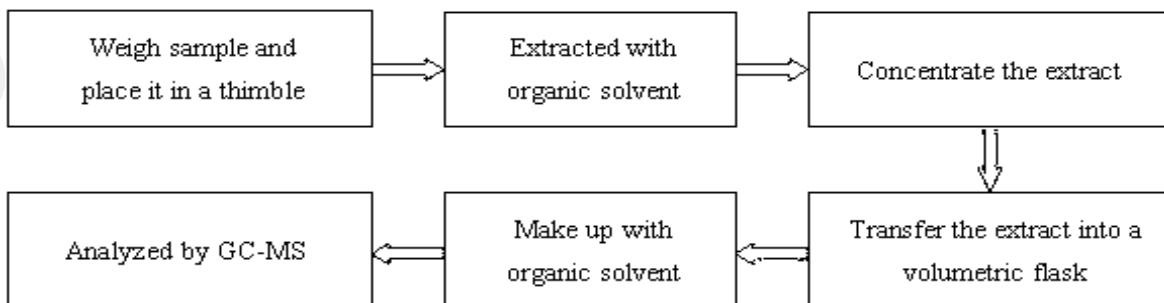


Test Report

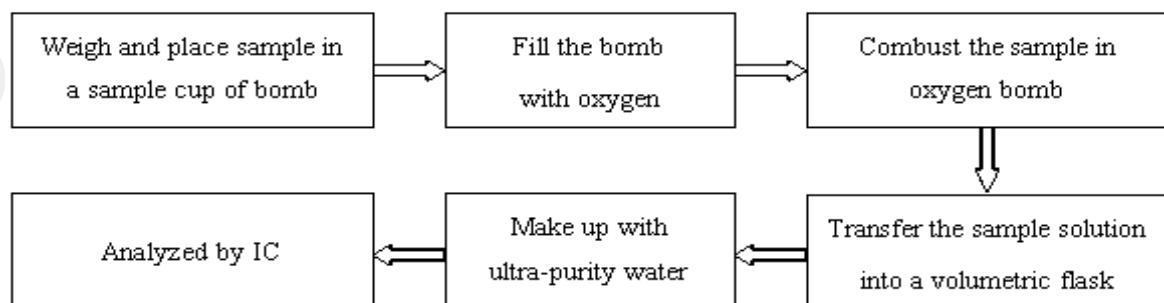
Report No. RLSZE001217490002

Page 7 of 9

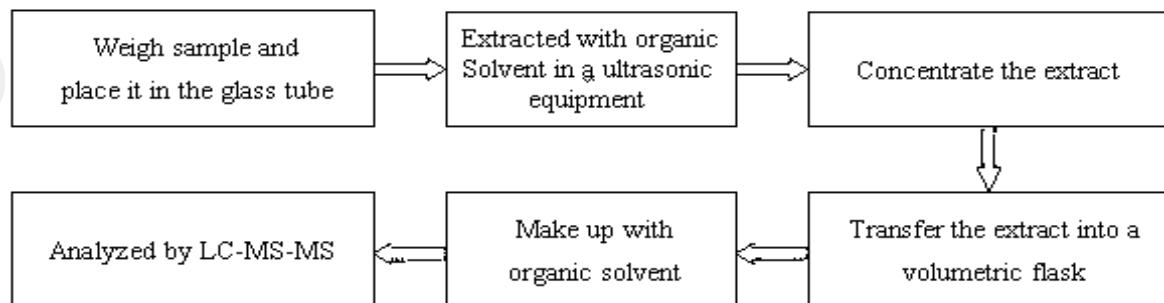
7. Hexabromocyclododecane(HBCDD)



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



9. Perfluorooctanoic Acid(PFOA), Perfluorooctane Sulfonates(PFOS)

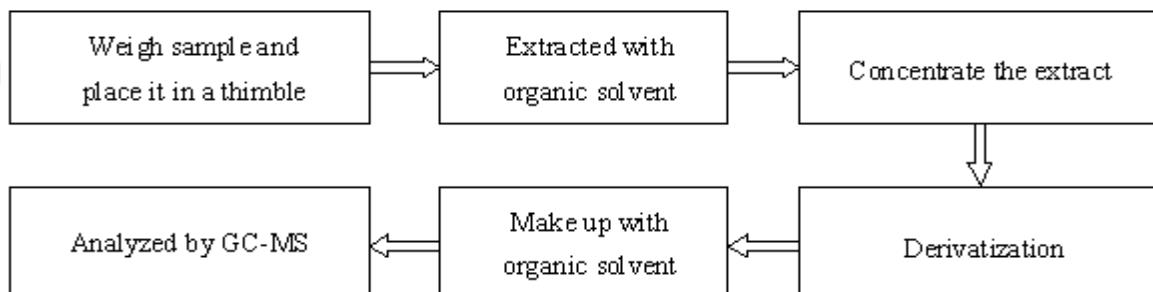


Test Report

Report No. RLSZE001217490002

Page 8 of 9

10. Tetrabromobisphenol-A (TBBP-A)



Test Report

Report No. RLSZE001217490002

Page 9 of 9

Photo(s) of the sample(s)



*** End of report ***

This report is considered invalidated without the Special Seal for Inspection of the CTI. This report shall not be altered, increased or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of CTI, this test report shall not be copied except in full and published as advertisement.

Building C, Hongwei Industrial Zone, Baoan 70 District, Shenzhen

REACH Declaration Form / REACH 告白表

供應商名稱 Supplier Name : 伸銓實業有限公司
REACH 窗口負責人 劉漢琮
REACH Contact Person
職稱 Title : 業務
Email Address : tommyliu@shch.com.tw
電話 Phone Number : 2956-1128
博來料號 ERP Part No :

請依照最符合狀況勾選 Kindly tick box for the most appropriate statement.

■ 產品供應商自我宣告 / Supplier Declaration for Articles Provided

敝公司在此聲明下列表格裏所提供之所有資訊是真實並且是依照敝公司目前已知的所有資料所完成的，敝公司的產品是完全符合 REACH 附錄十七所列出限制物質的要求，敝公司的經銷商／原料製造者／下游使用者，並無義務為我們公司任何產品做註冊／預註冊，無論如何，除了即定已有法規限制物質以外，敝公司也會要求上游供應商依照其所供應的原料也必須遵循 REACH 所限制物質要求。

We declare that information provided in the table below is true and complete to the best of our knowledge and that the articles we provide are compliant to restrictions on substances listed in Annex XVII of REACH. As Distributor / Articles Producer / Downstream User, there is no obligation for our company to register/pre-register anything. However, we will ensure our upstream suppliers will pre-register/register for which REACH registration requirements are applicable except where considered already registered under the regulation.

物料下包商/承包商自我宣告 / Supplier Declaration for Substances or Preparations Provided

敝公司在此聲明下列表格裏所提供之所有資訊是真實並且是依照敝公司目前已知的所有資料所完成的，敝公司所提供的承包商/協力廠的產品是完全符合 REACH 附錄十七所列出限制物質的要求此外敝公司上游物料供應者將會符合除了即定已有法規限制物質以外，敝公司也會要求上游供應商依照其所供應的原料也必須遵循 REACH 所限制物質要求。

We declare that information provided in the table below is true and complete to the best of our knowledge and that the substances and / or preparations we provide are compliant to restrictions on substances listed in Annex XVII of REACH and that we or our upstream suppliers will pre-register/register for which REACH registration requirements are applicable except where considered already registered under the regulation.

供應產品是否包含高關注物質 / Table 1 Substances under consideration for treatment as SVHC Candidates

物質名稱 Substance name	CAS No 化學文摘號碼	EC No 歐洲委員會號碼	NO	YES	濃度 PPM
Anthracene 蔥	120-12-7	204-371-1	✓		
4,4'-Diaminodiphenylmethane 4,4-二氨基二苯甲烷	101-77-9	202-974-4	✓		
Dibutyl phthalate 鄰苯二甲酸二丁酯(DBP)	84-74-2	201-557-4	✓		
Benzyl butyl phthalate 鄰苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	204-211-0	✓		
5-tert-butyl-2,4,6-trinitro-m-xylene(musk xylene) 二甲苯麝香	81-15-2	201-329-4	✓		
Hexabromocyclododecane(HBCDD) 六溴環十二烷	25637-99-4	247-148-4	✓		
Alkanes, C10-13, chloro(Short Chain Chlorinated Paraffins) 短鏈氯化石蠟(C10-13)	85535-84-8	287-476-5	✓		
Bis(tributyltin)oxide 氧化雙三丁基錫	56-35-9	200-268-0	✓		
Cobalt dichloride 氯化鈷	7646-79-9	231-589-4	✓		
Diarsenic pentaoxide 五氧化二砷	1303-28-2	215-116-9	✓		
Diarsenic trioxide 三氧化二砷	1327-53-3	215-481-4	✓		
Triethyl arsenate 三乙基砷酸鹽	15606-95-8	427-700-2	✓		
Lead hydrogen arsenate 砷酸氫鉛	7784-40-9	232-064-2	✓		
Sodium dichromate, dehydrate 重鉻酸鈉二水合物	7789-12-0		✓		
Anthracene oil 蔥油	90640-80-5	292-602-7	✓		
Anthracene oil, anthracene paste, distn. Lights 蔥油，蔥糊，輕油	91995-17-4	295-278-5	✓		
Anthracene oil, anthracene paste, anthracene fraction 蔥油，蔥糊，蔥餾分	91995-15-2	295-275-9	✓		
Anthracene oil, anthracene-low 蔥油，含蔥量少	90640-82-7	292-604-8	✓		
Anthracene oil, anthracene paste, 蔥油，蔥糊	90640-81-6	292-603-2	✓		
Pitch, coal tar, high-temp 煤瀝青，高溫	65996-93-2	266-028-2	✓		
Aluminosilicate, Refractory Ceramic Fibres 矽酸鋁，耐火陶瓷纖維		650-017-00-8	✓		

提供產品是否包含以下物質 / Do the articles you supply contain any of the following?

物質名稱 Substance name	CAS No 化學文摘號碼	EC No 歐洲委員會號碼	NO	YES	濃度 PPM
Zirconia Aluminosilicate, Refractory Ceramic Fibres 鋯矽酸鋁，耐火陶瓷纖維		650-017-00-8	✓		
Diisobutyl phthalate(DIBP) 鄰苯二甲酸二異丁酯	84-69-5	201-553-2	✓		
2,4-Dinitrotoluene 2,4-二硝基甲苯	121-14-2	204-450-0	✓		
Tris(2-chloroethyl) phosphate 磷酸三(2-氯乙基)酯	115-96-8	204-118-5	✓		
Lead chromate 鉻酸鉛	7758-97-6	231-846-0	✓		
Lead chromate molybdate sulphate red (C.I. Pigment Red 104) 紅色鉻鉻酸鉛硫酸鹽：顏色索引：顏料紅 104	12656-85-8	235-759-9	✓		
Lead sulfochromate yellow (C.I. Pigment Yellow 34) 黃色硫化鉻酸鉛：顏色索引：顏料黃 34	1344-37-2	215-693-7	✓		
Acrylamide 丙烯醯胺	79-06-1	201-173-7	✓		
Sodium chromate 絡酸鈉	7775-11-3	231-889-5	✓		
Ammonium dichromate 重鉻酸銨	7789-09-5	232-143-1	✓		
Potassium dichromate 重絡酸鉀	7778-50-9	231-906-6	✓		
Potassium chromate 鉻酸鉀	7789-00-6	232-140-5	✓		
Boric acid 硼酸	10043-35-3 11113-50-1	234-343-4 233-139-2	✓		
無水四硼酸二鈉 disodium tetraborate, anhydrous	1303-96-4 1330-43-4 12179-04-3	215-540-4	✓		
水合硼酸鈉 Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3	✓		
Trichloroethylene 三氯乙烯	79-01-6	201-167-4	✓		
硫酸鈷 (二價) Cobalt(II) sulphate	10124-43-3	233-334-2	✓		
硝酸鈷 (二價) Cobalt(II) dinitrate	10141-05-6	233-402-1	✓		
碳酸鈷 (二價) Cobalt(II) carbonate	513-79-1	208-169-4	✓		
醋酸鈷 (二價) Cobalt(II) diacetate	71-48-7	200-755-8	✓		
乙二醇單甲醚 2-Methoxyethanol	109-86-4	203-713-7	✓		
乙二醇單乙醚 2-Ethoxyethanol	110-80-5	203-804-1	✓		
三氧化鉻 Chromium trioxide	1333-82-0	215-607-8	✓		

提供產品是否包含以下物質 / Do the articles you supply contain any of the following?

物質名稱 Substance name	CAS No 化學文摘號碼	EC No 歐洲委員會號碼	NO	YES	濃度 PPM
鉻酸及其寡聚體產生的酸類： Acids generated from chromium trioxide and their oligomers:			✓		
鉻酸 Chromic acid	7738-94-5	231-801-5	✓		
重鉻酸 Dichromic acid	13530-68-2	236-881-5	✓		
鉻酸及重鉻酸的寡聚體 Oligomers of chromic acid and dichromic acid			✓		
乙二醇乙醚乙酸酯 2-ethoxyethyl acetate	111-15-9	203-839-2	✓		
鉻酸锶 strontium chromate	7789-06-2	232-142-6	✓		
鄰苯二甲酸二(C7-11 支鏈與直鏈)烷基酯 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	✓		
聯氨 Hydrazine	7803-57-8 302-01-2	206-114-9	✓		
N-甲基吡咯烷酮 1-methyl-2-pyrrolidone	872-50-4	212-828-1	✓		
1,2,3-三氯丙烷 1,2,3-trichloropropane	96-18-4	202-486-1	✓		
鄰苯二甲酸二(C6-8 支鏈與直鏈)烷基酯，富 C7 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	✓		

註：1、本公司將會不定期將產品抽樣至 SGS 檢測 SVHC。

We(Lex Computech) will verify the goods at SGS for SVHC certification random.

2、本公司依無符合 REACH 廠商進行停止採購之動作，直到符合 REACH 規範恢復其採購作業。

We(Lex Computech) will stop placing order to those supplies whom don't follow REACH Requirements.

劉漢琮



簽名加蓋公司章 Authorized Signature

100.7.20.

日期 DATE