

# Mag Layers Scientific-Technics., Co., Ltd

### **Material Description**

.....

Mag. Layers certify below statement for material description.

**Component type:** 

# Wire Wound SMD Type SMB SERIES

### **Description:**

 Comply with Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS).

· Comply with the request for Halogen Free limit.

The limit as below:

CI: 900 ppm Br: 900 ppm

Total halogens contained: 1500 ppm

### Material:

Name of material	Pb	Cd	Hg	Cr+6	PBBs	<b>PBDEs</b>	Br	Cl	Report NO
CORE	N.D	N.D	N.D	Negative			N.D	N.D	CE/2015/23017A
WIRE	N.D	N.D	N.D	Negative	N.D	N.D	1		CE/2014/B3711



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**CORE-TECH CORPORATION** 

NO. 135, YEONG 1ST. RD., YEONG AN VIL, HSIN WU, 32748 TAO TUA, TAIWAN

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

Sample Submitted By : CORE-TECH CORPORATION

Sample Description : FERRITE CORES

Style/Item No. : K5A, P3, C8, K5P, SK, K6, K5, SC, L9D, L9, L9E

Sample Receiving Date : 2015/02/12

Testing Period : 2015/02/12 TO 2015/02/25

Test Requested : (1) As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to

determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted

sample.

(2) As specified by client, to test PFOA, PFOS, Halogen-Fluorine, Chlorine, Bromine,

lodine contents in the submitted sample.

**Test Method** : Please refer to next page(s).

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



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**CORE-TECH CORPORATION** NO. 135, YEONG 1ST. RD., YEONG AN VIL, HSIN WU, 32748 TAO TUA, TAIWAN

#### Test Result(s)

PART NAME No.1 : IRON-GRAY METAL

Tool Hom(o)	l lm!t	Method	MDL	Result	
Test Item(s)	Unit	Wethod		No.1	
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	
Hexavalent Chromium Cr(VI)	**	With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	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.	
Halogen					
Halogen-Fluorine (F) (CAS No.: 14762-94-8)			50	n.d.	
Halogen-Chlorine (CI) (CAS No.: 22537-15-1)	(1	With reference to BS EN	50	n.d.	
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	14582:2007. Analysis was performed by IC.	50	n.d.	
Halogen-lodine (I) (CAS No.: 14362-44-8)			50	n.d.	



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Toot Itom(s)	Unit	Marth a d	MDI	Result	
Test Item(s)	Unit	Method	MDL	No.1	
Sum of PBBs			-	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		With reference to IEC 62321:	5	n.d.	
Sum of PBDEs	mg/kg	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. # = 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.
- 6. \*\* = Qualitative analysis (No Unit)



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**CORE-TECH CORPORATION** NO. 135, YEONG 1ST. RD., YEONG AN VIL, HSIN WU, 32748 TAO TUA, TAIWAN

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 1µg/m<sup>2</sup>.



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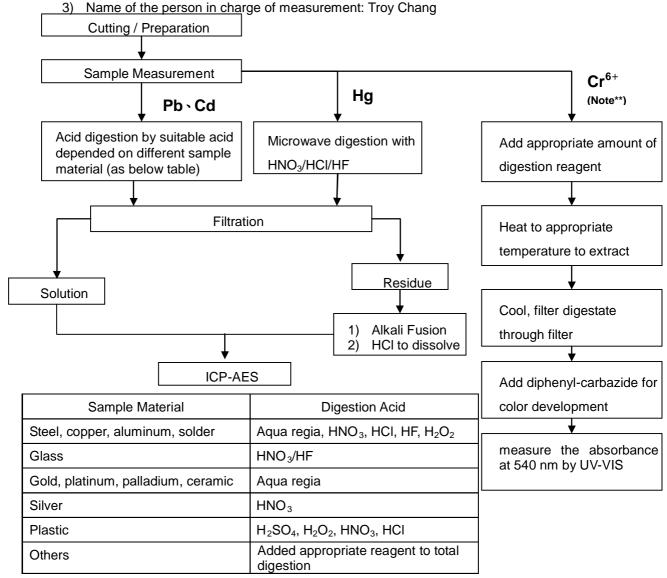
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**CORE-TECH CORPORATION** 

NO. 135, YEONG 1ST. RD., YEONG AN VIL, HSIN WU, 32748 TAO TUA, TAIWAN

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. ( Cr<sup>6+</sup> test method excluded )
- 2) Name of the person who made measurement: Climbgreat Yang



**Note\*\***: (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 ℃.

(2) For metallic material, add pure water and heat to boiling.



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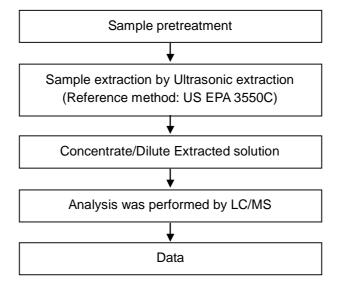
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CORE-TECH CORPORATION

NO. 135, YEONG 1ST. RD., YEONG AN VIL, HSIN WU, 32748 TAO TUA, TAIWAN

#### PFOA/PFOS analytical flow chart of Ultrasonic extraction (LC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang





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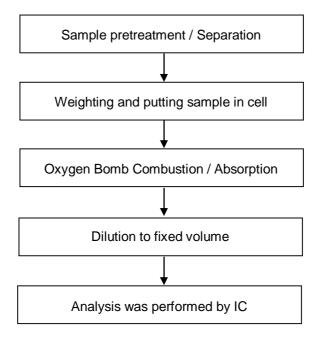
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CORE-TECH CORPORATION

NO. 135, YEONG 1ST. RD., YEONG AN VIL, HSIN WU, 32748 TAO TUA, TAIWAN

#### Analytical flow chart of halogen content

- Name of the person who made measurement: Rita Chen
- Name of the person in charge of measurement: Troy Chang





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Date: 2015/03/04

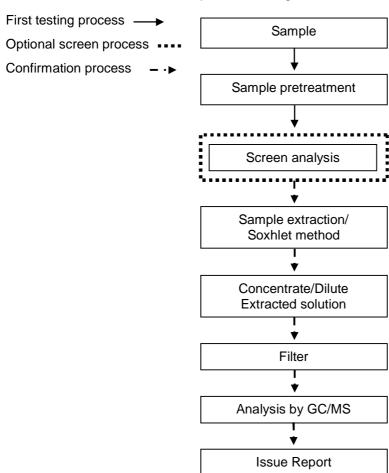
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#### PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang





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Date: 2015/03/04

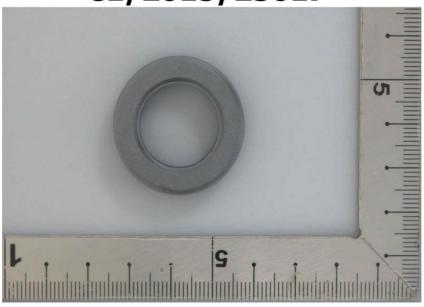
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*

CE/2015/23017



\*\* End of Report \*\*



### 測試報告

# **Test Report**

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温誠工業股份有限公司

WEN CHENG LEAD WIRE CO., LTD.

桃園縣新屋鄉頭洲村9鄰11之2號

NO. 11-2 9LIN TOU CHOU CHUN HSIN-WU HSIANG TAOYUAN TAIWAN R. O. C.

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description) : TIN PLATED COPPER WIRE (E) (鍍錫銅線 (E))

樣品型號(Style/Item No.) : TIN PLATED COPPER WIRE (E)

收件日期(Sample Receiving Date) 2014/11/24

測試期間(Testing Period) 2014/11/24 TO 2014/12/01

\_\_\_\_\_\_\_

請見下一頁 (Please refer to next pages). 測試結果(Test Results) :





# 測試報告

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温誠工業股份有限公司

WEN CHENG LEAD WIRE CO., LTD.

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NO. 11-2 9LIN TOU CHOU CHUN HSIN-WU HSIANG TAOYUAN TAIWAN R. O. C.

#### 測試結果(Test Results)

測試部位(PART NAME)No.1 : 銀色金屬線 (含鍍層) (SILVER COLORED METAL WIRE (INCLUDING THE PLATING LAYER))

測試項目	單位	測試方法	方法偵測 極限値	結果 (Result)	
(Test Items)	(Unit)	(Method)	(MDL)	No.1	
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	
六價鉻 / Hexavalent Chromium Cr(VI)	* *	参考IEC 62321: 2008方法,以沸水萃取法檢測. / With reference to IEC 62321: 2008 and performed by Boiling water extraction Method.#	#	Negative	
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	



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NO. 11-2 9LIN TOU CHOU CHUN HSIN-WU HSIANG TAOYUAN TAIWAN R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result)	
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	No.1 n.d.	
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	参考IEC 62321: 2008方法,以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.	
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	参考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測./ With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	参考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	
鹵素 / Halogen					
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)			50	n.d.	
鹵素(氣)/ Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	,,	参考BS EN 14582:2007, 以離子層析儀 分析. / With reference to BS EN	50	n.d.	
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	14582:2007. Analysis was performed by IC.	50	n.d.	
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	



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桃園縣新屋鄉頭洲村9鄰11之2號

NO. 11-2 9LIN TOU CHOU CHUN HSIN-WU HSIANG TAOYUAN TAIWAN R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)
	, ,	(	(MDL)	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		参考IEC 62321: 2008方法,以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	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	mg/kg		-	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.



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桃園縣新屋鄉頭洲村9鄰11之2號

NO. 11-2 9LIN TOU CHOU CHUN HSIN-WU HSIANG TAOYUAN 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. \*\*= Qualitative analysis (No Unit) 定性分析(無單位)
- 6.# = a. Positive means the presence of CrVI on the tested areas (Positive表示測試區域偵測到六價鉻)
  - b. Negative means the absence of CrVI on the tested areas (Negative表示測試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas. / 該溶液濃度≧0.02 mg/kg with 50 cm² (tested areas)

7. 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别單一材質的含量. (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参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗層材料中不得超過 $1\mu g/m^2$ 。

(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  $1\mu g/m^2$ .)

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### 測試報告

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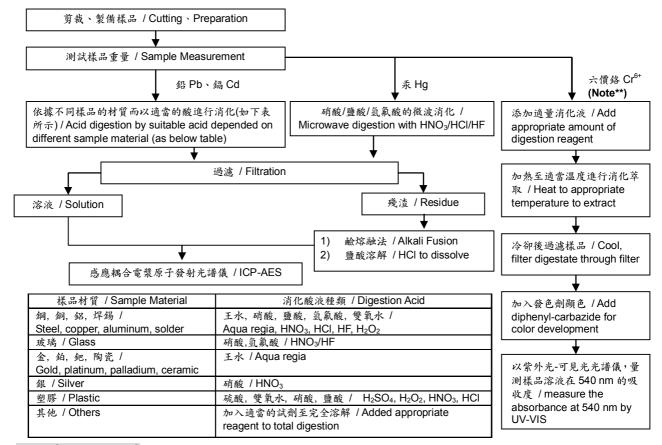
温誠工業股份有限公司

WEN CHENG LEAD WIRE CO., LTD.

桃園縣新屋鄉頭洲村9鄰11之2號

NO. 11-2 9LIN TOU CHOU CHUN HSIN-WU HSIANG TAOYUAN TAIWAN R. O. C.

- 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. ( Cr<sup>6+</sup> test method excluded )
- 2) 测試人員: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



#### Note\*\* (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
- (2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.



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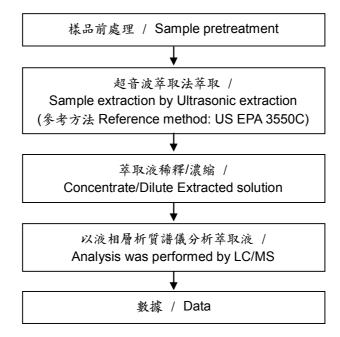
WEN CHENG LEAD WIRE CO., LTD.

桃園縣新屋鄉頭洲村9鄰11之2號

NO. 11-2 9LIN TOU CHOU CHUN HSIN-WU HSIANG TAOYUAN TAIWAN R. O. C.

#### 全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

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





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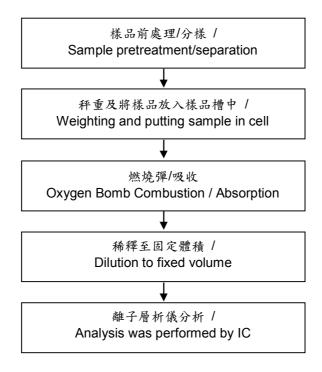
WEN CHENG LEAD WIRE CO., LTD.

桃園縣新屋鄉頭洲村9鄰11之2號

NO. 11-2 9LIN TOU CHOU CHUN HSIN-WU HSIANG TAOYUAN TAIWAN R. O. C.

#### 鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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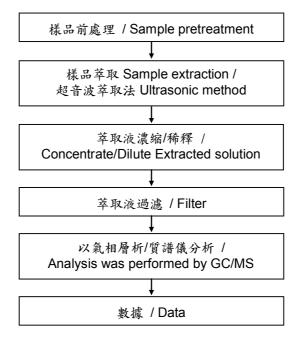
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#### 六溴環十二烷分析流程圖 / HBCDD analytical flow chart

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





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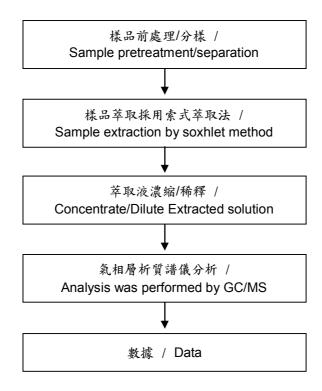
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#### 可塑劑分析流程圖 / Analytical flow chart of phthalate content

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





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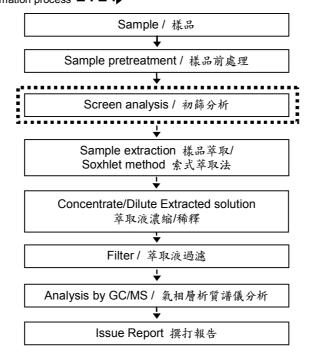
NO. 11-2 9LIN TOU CHOU CHUN HSIN-WU HSIANG TAOYUAN TAIWAN R. O. C.

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

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 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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NO. 11-2 9LIN TOU CHOU CHUN HSIN-WU HSIANG TAOYUAN TAIWAN R. O. C.

\* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. \*
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2014/B3711



\*\* 報告結尾 (End of Report) \*\*

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