

## 測試報告

號碼：CE/2006/97938B

日期：2007/08/23

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岳穗金屬有限公司

WELL HARVEST METAL CO., LTD.

\*241台北縣三重市五谷王北街42巷11之1號

NO. 11-1 LANE 42, WU-KU. WANG NORTH STREET SAN CHUNG CITY, TAIPEI HSIEN

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

樣品名稱(Sample Description) : 不銹鋼  
樣品型號(Style/Item No.) : SUS 430  
收件日期(Sample Receiving Date) : 2006/9/29  
測試期間(Testing Period) : 2006/9/29 TO 2006/10/11


=====  
**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, Ed. 1 111/54/CDV 方法檢測。 / With reference to IEC 62321, Ed.1 111/54/CDV. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.

(1) 用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) 用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) 用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) 針對金屬材質之樣品，用 Spot test / Colorimetric 方法檢測六價鉻含量。 / Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric 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 Result(s)** : 請見下一頁。

**結論 / Conclusion** : 根據客戶所提供樣品的測試結果，符合 RoHS(2002/95/EC) 及其修定指令之要求。 / Based on the performed tests on submitted samples, the test results are **compliant with** the limits of RoHS Directive 2002/95/EC and its subsequent amendments.

  
Daniel Yen, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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## 測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	結果 / Result	方法偵測 極限值 (MDL)	RoHS 限值
		No.1		
鎘 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	12.8	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	(4)	Negative	See Note 5	#
<b>多溴聯苯總和 / Sum of PBBs</b>	(5)	n.d.	-	1000
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	-
<b>多溴聯苯醚總和 (一至九溴) / Sum of PBDEs (Mono to Nona) (Note 4)</b>		n.d.	-	1000
一溴聯苯醚 / Monobromobiphenyl ether		n.d.	5	-
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	5	-
三溴聯苯醚 / Tribromobiphenyl ether		n.d.	5	-
四溴聯苯醚 / Tetrabromobiphenyl ether		n.d.	5	-
五溴聯苯醚 / Pentabromobiphenyl ether		n.d.	5	-
六溴聯苯醚 / Hexabromobiphenyl ether		n.d.	5	-
七溴聯苯醚 / Heptabromobiphenyl ether		n.d.	5	-
八溴聯苯醚 / Octabromobiphenyl ether		n.d.	5	-
九溴聯苯醚 / Nonabromobiphenyl ether		n.d.	5	-
十溴聯苯醚 / Decabromobiphenyl ether	n.d.	5	-	
<b>多溴聯苯醚總和 (一至十溴) / Sum of PBDEs (Mono to Deca)</b>	n.d.	-	-	

## 測試部位描述 / TEST PART DESCRIPTION:

NO.1 : 銀色金屬 / SILVER COLORED METAL

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Note: 1. mg/kg = ppm

2. n.d. = Not Detected / 未檢出

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

4. According to 2005/717/EC DecaBDE is exempt.

根據2005年10月13日歐盟會議公佈2005/717/EC，修訂2002/95/EC內容，通過解除  
高分子材質中十溴聯苯醚之使用限制。

5. Spot-test:

Negative = Absence of Cr(VI) coating / surface layer,

Positive = Presence of Cr(VI) coating / surface layer;

(The tested sample should be further verified by boiling-water-extraction method if the  
spot test result cannot be confirmed.)

Negative=鍍層中偵測不到六價鉻，Positive=鍍層中偵測到六價鉻；

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,

Positive = Presence of Cr(VI) coating / surface layer; the detected concentration in

boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup>  
sample surface area.

Negative=鍍層中偵測不到六價鉻，Positive=鍍層中偵測到六價鉻；

該濃度溶液 $\geq 0.02$  mg/kg with 50 cm<sup>2</sup> (sample surface area)

6. # = Positive indicates the presence of Cr(VI) on the tested areas  
and result be regarded as not comply with RoHS requirement.

Positive表示測試區域之六價鉻不符合RoHS要求

Negative indicates the absence of Cr(VI) on the tested areas and result be regarded  
as comply with RoHS requirement. / Negative表示測試區域之六價鉻符合RoHS要求

7. "-" = Not Regulated / 無規格值

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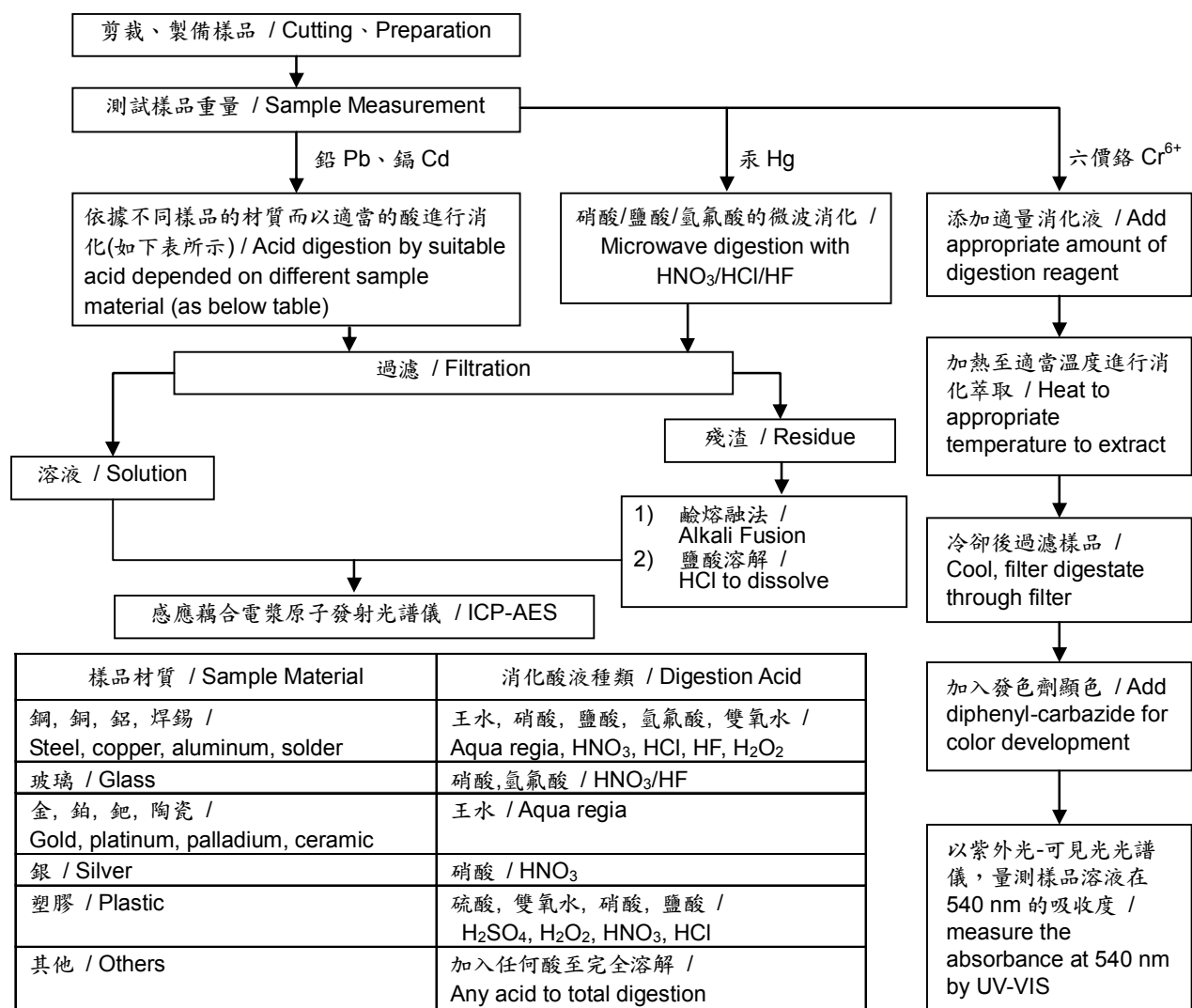
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)
- 2) 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：葉禮源 / Name of the person in charge of measurement: Daniel Yeh



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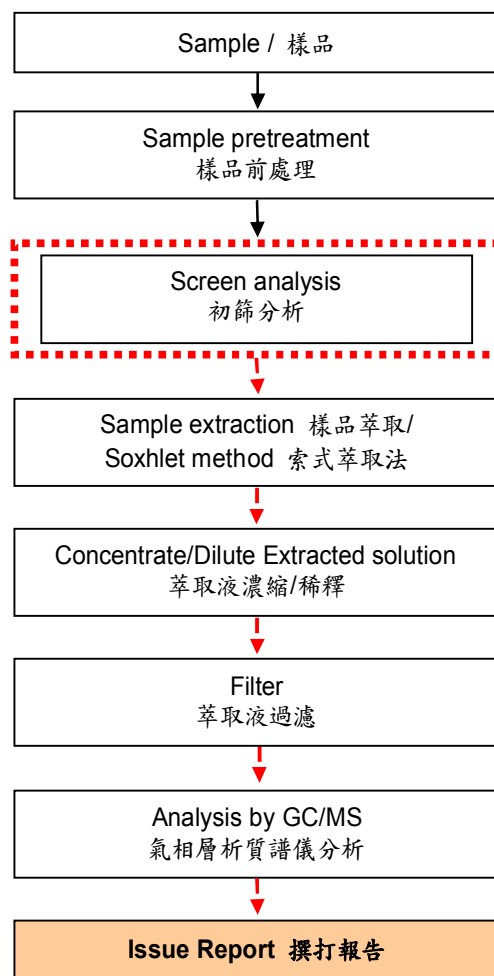
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### 多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

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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