

測試報告 號碼(No.) : CE/2010/38408 日期(Date) : 2010/04/08 頁數(Page) : 1 of 8 **Test Report**

智威科技股份有限公司 ZOWIE TECHNOLOGY CORPORATION 台北縣新店市復興路43號3樓 3/F., NO. 43, FUSING RD., SINDIAN CITY, TAIPEI COUNTY 23150, TAIWAN

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

樣品名稱(Sample Description)	:	DIODE (SCHOTTKY BARRIER RECTIFIER , SWITCHING DIODES , ZENER DIODES ,		
		TRANSISTORS . TRANSIENT VOLTAGE SUPPRESSORS FOR ESD PROTECTION)		
樣品型號(Style/Item No.)	:	SOT-89 \$\sec{SOT-23} \$\sec{SOT-323} \$\sec{SOT-523} \$\sec{SOT-363} \$\sec{SOD-123} \$\sec{SOD-323} \$\sec{SOD-523}		
		SOD-723 SOD-923		
收件日期(Sample Receiving Date)	:	2010/03/31		
測試期間(Testing Period)	:	2010/03/31 TO 2010/04/08		

測試結果(Test Results)

: 請見下一頁 (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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<u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1 : 整體混測 (共十款) (MIXED ALL PARTS (TEN TYPES))

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) NO.1
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321: 2008方法,以感應藕 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,以感應藕 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,以感應藕 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.
六價络 / Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	参考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	参考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	参考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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五溴聯苯醚

七溴聯苯醚

八溴聯苯醚

九溴聯苯醚

十溴联苯醚

/ Pentabromodiphenyl ether

/ Heptabromodiphenyl ether

/ Octabromodiphenyl ether

/ Nonabromodiphenyl ether

Decabromodiphenyl ether

六溴聯苯醚 / Hexabromodiphenyl ether

台灣檢驗科技股份有限公司 Chemical-Taipei 33 WuChyuan Road, Wuku 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 3273 vww.sgs.com

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ZOWIE TECHNOLOGY CORPORATION 台北縣新店市復興路43號3樓 3/F., NO. 43, FUSING RD., SINDIAN CITY, TAIPEI COUNTY 23150, TAIWAN 方法值测 測試項目 單位 测試方法 極限值 (Result) (Test Items) (Unit) (Method) (MDL) 多溴聯苯總和 / Sum of PBBs _ -溴聯苯 / Monobromobiphenyl 5 二溴聯苯 / Dibromobiphenyl 5 三溴聯苯 / Tribromobiphenyl 5 四溴聯苯 / Tetrabromobiphenyl 5 五溴聯苯 / Pentabromobiphenyl 5 六溴聯苯 / Hexabromobiphenyl 5 七溴聯苯 / Heptabromobiphenyl 5 八溴聯苯 / Octabromobiphenyl 5 參考IEC 62321: 2008方法, 以氣相層 九溴聯苯 / Nonabromobiphenyl 5 十溴聯苯 / Decabromobiphenyl 析儀/質譜儀檢測. / With reference 5 mg/kg to IEC 62321: 2008 and performed 多溴聯苯醚總和 / Sum of PBDEs by GC/MS. -溴聯苯醚 / Monobromodiphenyl ether 5 二溴聯苯醚 / Dibromodiphenyl ether 5 三溴聯苯醚 / Tribromodiphenyl ether 5 四溴聯苯醚 / Tetrabromodiphenyl ether 5

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智威科技股份有限公司

結果

NO.1

n.d.

5

5

5

5

5

5

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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参考資訊(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1µg/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 1µg/m² of the coated material.)

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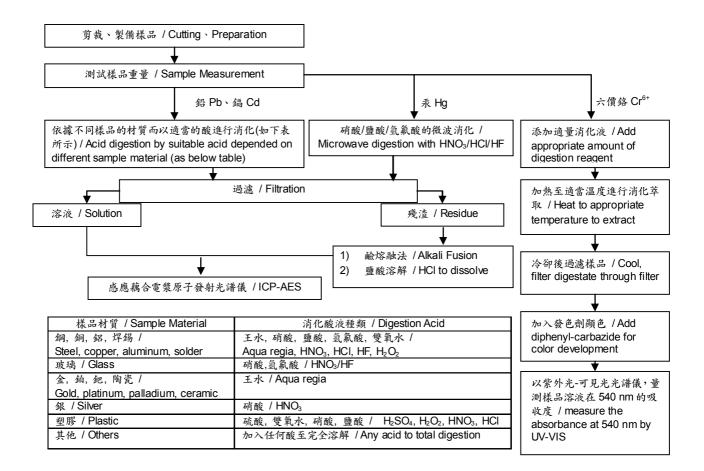
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> 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
> 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang

) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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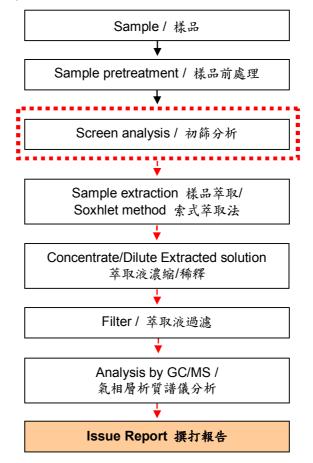
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

1) 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong 2) 測試負責人:陳新智 / Name of the person in charge of measurement: Shinjyh Chen 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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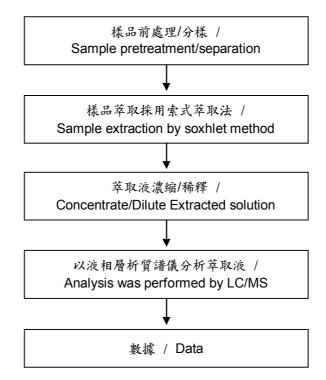
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索式萃取(LC/MS)分析流程圖 /

Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- 1) 測試人員:傳莉雅 / 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: Shiniyh 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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