

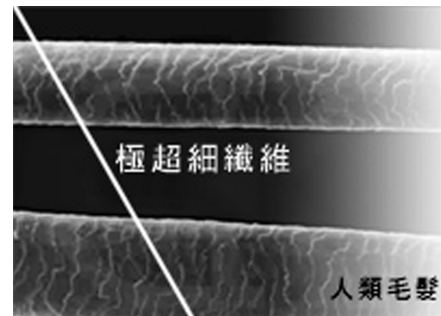
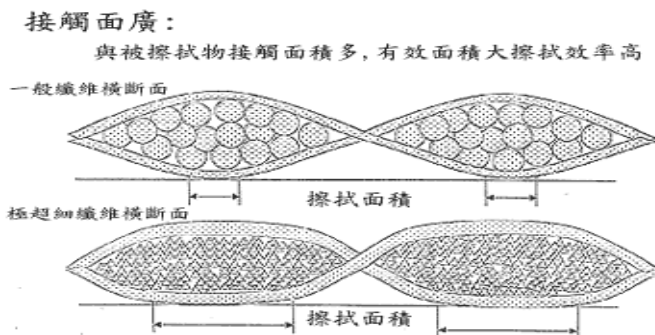


田 絃 實 業 有 限 公 司

田絃致力於生產高效能極超細纖維擦拭布，是一種經最新科技分割開纖加工處理後，其纖維細度約為頭髮的兩百五十分之一，纖維開阡後斷面呈稜角狀對粉塵之捕捉性極佳，尤其針對 LCD 面板類與無塵擦拭布效果極佳。且對於設備、環境、零件等... 不會有破壞，污染疑慮。是對於潔淨力與功能性極為高性能之產品。

產品功能

◆. 具有多重刮除效應：一根粗單纖維將其開纖變成極超細纖維，如此作為拭淨布時，極超細纖維可就好比一般擦拭布更具有更多重刮除的效果。



◆. 接觸面較寬效應：一般纖維因較粗，彎曲剛性大，所以織物浮點與物體的接觸面積小，反之極超細纖維彎曲剛性小又柔軟，所以織物浮點與物體的接觸面積大，拭淨力強。

◆. 具內部剝離效應：由超極細纖維作成的拭淨布，在刮起污物後，污物會順著纖維的毛細管通道往外遷移，呈內部剝離的效應，如此污物不會殘留拭淨布的表面。

◆. 因纖維更細效應：由於開纖紗，其單纖維比清除污物更細，所以更能徹底除污穢、細塵。

◆. 纖維具導管效應：不用添加任何化學助劑，具有永久性超強吸水力，吸溼排水功能。

〈本公司的超細纖維與一般超細纖維比較圖〉





產品特性

- ◆. 環保: 不必使用化學清潔劑, 沒有刺激性.
- ◆. 效率: 超強去污力及快速吸水性, 輕鬆省力氣.
- ◆. 安全: 質地柔軟細緻, 不會刮傷物體表面.
- ◆. 潔淨: 極超細纖維, 比污物還要細小, 可徹底刮起清除污物.
- ◆. 舒適: 觸感超柔軟與肌膚接觸舒舒服服, 不會傷害您細緻皮膚.
- ◆. 耐用: 使用極超細纖維與特殊連續織法, 經久耐用, 成本更省.

可用溶劑與耐用性

酒精類	Ethanol	○
	Ethylene glycol	○
	Isopropanol	○
	Methanol	○
無機化合物類	0.1N Chlorine	○
	0.1N Caustic soda	○
	0.1N Sulfuric acid	○
	1N Chlorine	○
	1N Caustic soda	×
	1N Sulfuric acid	○
	Liquid Ammonia	○
	Hydrogen peroxide(5%)	○
	Hypochlorous acid	○
	soda(0.01%)	○

測定方法(常溫下浸製12小時)

○無化學與物理反應並維持安定

×有物理溶解現象, 不可使用

碳氫化合物	Benzene	○
	n-Benzene	○
	Toluene	○
	Xylene	○
其他有機化合物類	Acetic acid(conc.)	×
	Acetone	○
	Acetic acid(10%)	○
	Dioxane	○
	Dimethyl forum amide	○
	IPA 100%	○
	Kerosene	○
	Nitric acid (conc.)	×
	Nitric acid (10%)	○
	Tetrahydrofuran	○
	IPA 5%+ Pure water	○



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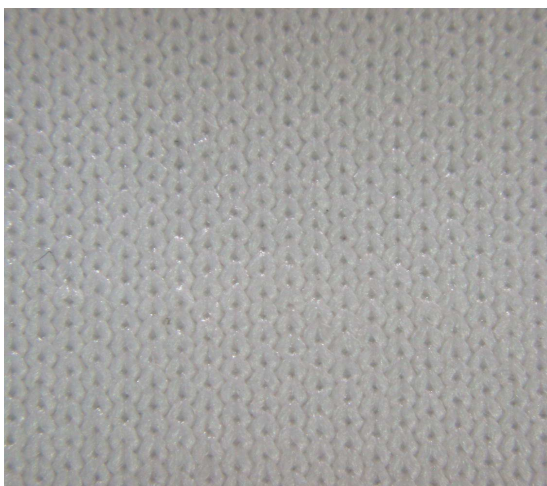
高吸水性

- ◆. 高效能極超細纖, 大幅提升吸水性及吸水速度
吸水速度(秒/5 公分面積)
- ◆. 高精密針織手法使得毛細現象加倍保水與增加保水量
保水量(g/420 m²)約為一般拭淨布的 3~4 倍

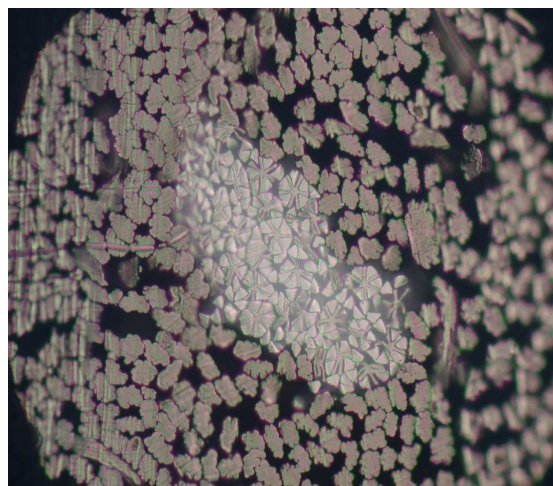
材質:

Polyester80% Nylon20%

布
面



單
絲
斷
面



◆ 1:100 寫真圖

密度	經向	52 目	(參考值)
密度	緯向	48 目	(參考值)
重量	g/m ²	180	(參考值)
厚度	mm	0.5	(參考值)

◆ 5000 倍放大圖

測試報告

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TIAN HONG FIBER CO., LTD.

新北市樹林區西圳街一段121號

NO. 121, SEC. 1, SIZUN ST., SHU LIN DISTRICT, NEW TAIPEI CITY 238, 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) : 極超細N/T複合纖維擦拭布 (MICRO FINE N/T (NYLON / POLYESTER) COMPOUND FIBER CLEANING FABRIC)

收件日期(Sample Receiving Date) : 2007/12/13

測試期間(Testing Period) : 2007/12/13 TO 2007/12/20

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) 針對非金屬材質之樣品，用UV-VIS檢測六價鉻含量. / Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.

(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) : 請見下一頁 (Please refer to next pages).

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).


Troy Chang, Manager Tech
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei



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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)	RoHS 限值 (Limit)
		No.1		
鎘 / Cadmium (Cd)	(1)	n.d.	2	100
鉛 / Lead (Pb)	(2)	n.d.	2	1000
汞 / Mercury (Hg)	(3)	n.d.	2	1000
六價鉻 / Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2	1000
多溴聯苯總和 / Sum of PBBs	(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	-
多溴聯苯醚總和 / Sum of PBDEs		n.d.	-	1000
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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測試部位描述 (TEST PART DESCRIPTION):

NO.1 : 藍色布 (BLUE CLOTH)

備註(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. "-" = Not Regulated (無規格值)

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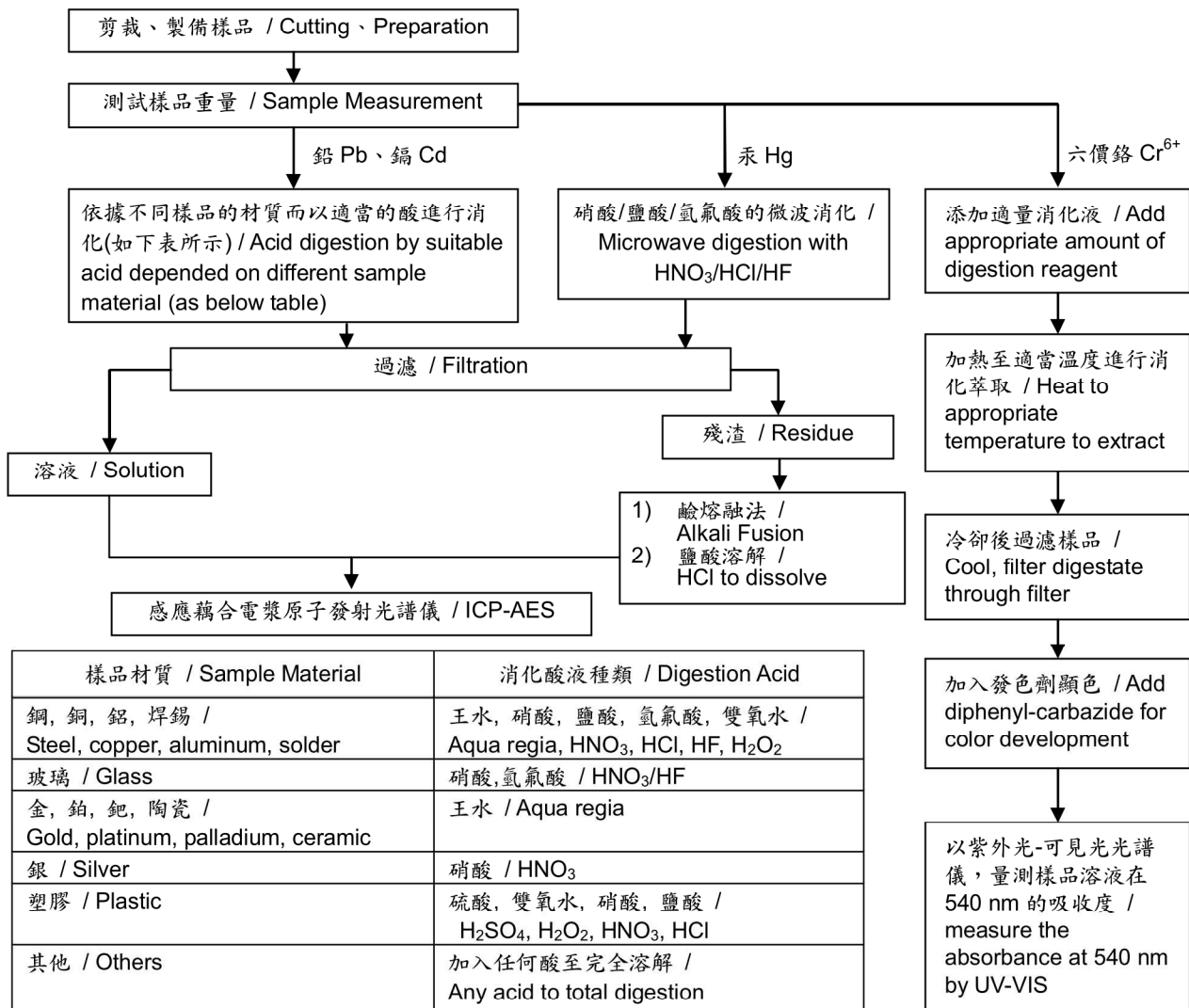
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- 1) 根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員：張啓興 / Name of the person who made measurement: Troy Chang
- 3) 測試負責人：龔振裕 / Name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



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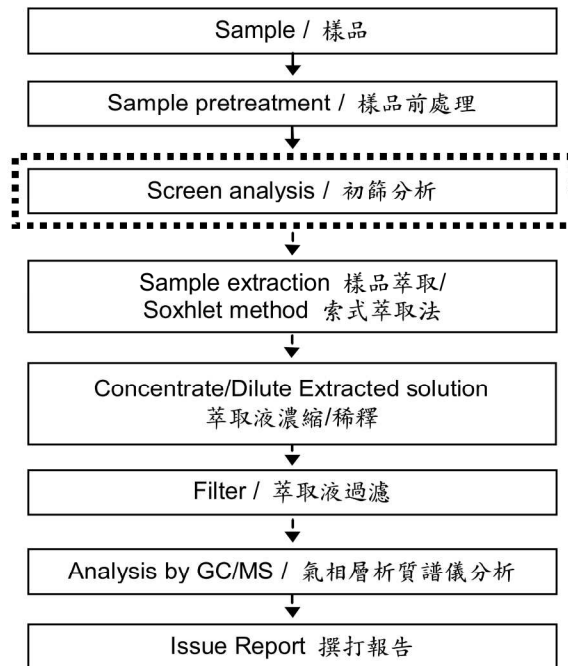
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 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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* 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.)



** 報告結尾 (End of Report) **

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