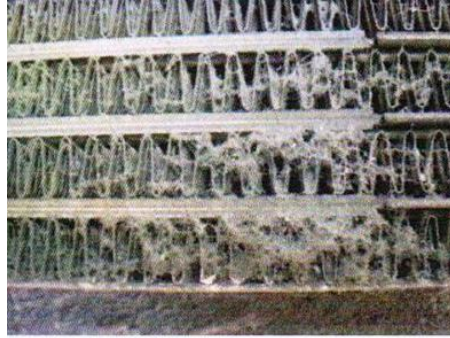


汽車風箱系統髒污原因

形成原因：

蒸發器的位置在汽車前臺內部，風扇電機將空氣往蒸發器送，所以上面會有很多的雜質、灰塵、髒污。



產生影響：

細菌產生，有異味，阻塞，風量越來越小，冷房效果差。



清潔作用：

利用清潔劑泡沫附著在蒸發器的鱗片上，將髒污清除，清除細菌，改善車內黴味、異味，有效清洗蒸發器，恢復原車空調的出風量，增加空調冷房效果。



Duntex 汽車風箱系統冷排清潔劑操作方式

操作原理：

利用風扇電機轉動的離心力，將清潔劑注入並附著在蒸發器上，而達到清洗效果。

一、操作方法



A.進風口

(前擋玻璃下，引擎室擋火牆附近)。

操作方法：

- 1.如有冷氣濾網，請將其拆除。
- 2.AC 關閉，打開風速開關，最強風第 4 段。
- 3.車外清洗時，將此清潔劑泡沫全部噴入至泡沫結束。
- 4.關閉鼓風馬達(冷氣風扇)，裝回配件，靜置 15 分鐘。
- 5.將發動機發動，鼓風馬達(冷氣風扇)開至 1 段，將 AC 打開。
- 6.在車底盤下尋找冷氣滴水口，放置杯子方可接獲風箱冷排髒水。



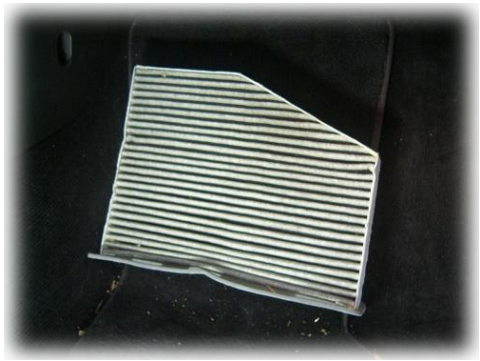
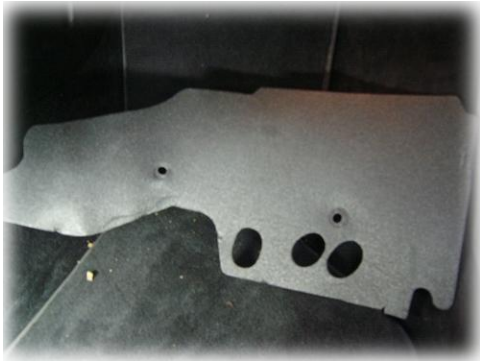


B.進風口

(副駕駛座前擋玻璃下，手踏箱後或附近)。

操作方法：

- 1.如有冷氣濾網，請將其拆除。
2. **AC** 關閉，打開風速開關，最強風第 4 段。
- 3.車外清洗時，將此清潔劑泡沫全部噴入至泡沫結束。
- 4.關閉鼓風馬達(冷氣風扇)，裝回配件，靜置 15 分鐘。
- 5.將發動機發動，鼓風馬達(冷氣風扇)開至 1 段，將 **AC** 打開
- 6.在車底盤下尋找冷氣滴水口，放置杯子方可接獲風箱冷排髒水。



C. 冷凝器與鼓風馬達中間 (濾網取出，由此噴入清潔劑)

1. 拆除副駕駛座外蓋取出濾清器外蓋及濾網。
2. **AC** 位於關閉狀態，按下噴頭使清潔劑自動噴出，移動導管並均勻的噴灑在蒸發器上後，蓋上濾清器外蓋，利用兩顆固定螺絲固定。
3. **AC** 位於關閉狀態，起動引擎，打開室內循環，調整風向為向下出風、調整風量為最大風量。
4. 約三分清潔劑完全流出，關閉鼓風機。
5. 再次取出濾清器外蓋。
6. 2 至 5 步驟再做一次。
7. 以反順序裝回拆下之濾清器、濾清器外蓋及下護板等零件
8. 調整風量至第二段風量，開 **AC**，運轉約五分鐘，使其清潔效果達到最佳，完成所有清洗動作。
9. 每瓶請分二次操作，流程大約 15 分鐘完成。
10. 開冷氣至 1 速風冷度調至最冷恆溫空調大約開冷氣至 1 速風冷度調至最冷恆溫空調大約在 18 度，在讓污水排出(約 5 分鐘)以達到最後清潔效果。
11. 關閉所有開關及鼓風機馬達，裝回所有拆卸的零件。

注意：風扇電阻請勿浸泡到清潔劑。

檢驗報告

報告編號： UG/2012/70344A-01

日期： 2012年08月13日

頁數： 1 of 3



有撰實業有限公司

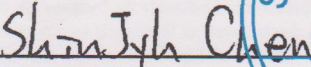
243 新北市泰山區新生路53-2號

以下測試之樣品係由供應廠商所提供及確認：

產品名稱：	汽車風箱系統清潔劑
申請廠商：	有撰實業有限公司
送樣日期：	2012年07月25日
測試日期：	2012年07月26日
測試箱溫度：	23°C
測試箱濕度：	50 %
測試時間：	20 分, 1小時, 4小時

測試結果： - 請見下頁 -

Signed for and on behalf of
SGS Taiwan Ltd.


Shin-Jyh Chen
Manager



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/en/Terms-and-Conditions/Terms-e-Document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

檢驗報告

報告編號： UG/2012/70344A-01

日期： 2012年08月13日

頁數： 2 of 3



有撰實業有限公司

243 新北市泰山區新生路53-2號

測試結果：

1) 揮發性有機化合物：

測試項目	CAS NO.	測試方法	測試結果			檢測極限	單位
			20分	1小時	4小時		
丙烷 Propane	000074-98-6	本測試參考 ISO 16000-6,9,11 方法，將樣品噴灑30秒~1分鐘，於20分鐘後採樣，以氣相層析儀/質譜儀(GC/MS)檢測。	N.D.	N.D.	N.D.	1.0	µg/m ³
異丁烷 Isobutane Methylpropane	000075-28-5		N.D.	N.D.	N.D.	1.0	µg/m ³
丁烷 N-Butane	000106-97-8		1580	1507	150	1.0	µg/m ³
2-溴丁烷 2-Butyl bromide	000078-76-2		N.D.	N.D.	N.D.	1.0	µg/m ³
2-甲基丁烷 2-methylbutane	000078-78-4		N.D.	N.D.	N.D.	1.0	µg/m ³
苯 Benzene	000071-43-2		N.D.	N.D.	N.D.	1.0	µg/m ³
苯乙烯 Styrene	000100-42-5		N.D.	N.D.	N.D.	1.0	µg/m ³
十四烷 Tetradecane	000629-59-4		N.D.	N.D.	N.D.	1.0	µg/m ³

2) 羰基化合物：

甲醛 Formaldehyde	000050-00-0	本測試參考 ISO 16000-3,9,11 方法，將樣品噴灑30秒~1分鐘，於20分鐘後採樣，以高效液相層析儀/二極體陣列偵測器(HPLC/DAD)檢測。	N.D.	N.D.	N.D.	1.0	µg/m ³
乙醛 Acetaldehyde	000075-07-0		N.D.	N.D.	N.D.	1.0	µg/m ³

備註：1. 本報告不得分離，分離使用無效。

2. 低於方法偵測極限之測定值以 "N.D." 表示。

- END -

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/en/Terms-and-Conditions/Terms-e-Document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

宥撰實業有限公司
新北市泰山區新生路 53-2 號

報告號碼： VA/2012/71402
頁數： 3 OF 3
日期： 2012/08/03

VA/2012/71402



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

宥撰實業有限公司
新北市泰山區新生路 53-2 號

報告號碼： VA/2012/71402
頁數： 1 OF 3
日期： 2012/08/03

以下貨品係由客戶送樣，且由客戶聲稱並經客戶確認資料如下：

產品名稱 汽車風箱系統清潔劑
申請廠商 宥撰實業有限公司
收樣日期 2012/07/19
測試日期 2012/07/20
測試方法 參考 AATCC 100

測試結果:

菌種：金黃色葡萄球菌 ATCC No. 6538

測試項目	接觸 0 小時之菌數 (CFU/___1g)	接觸 24 小時之菌數 (CFU/___1g)	減菌率 (R%)
對照組	2.0x10 ⁵	8.6x10 ⁷	—
測試樣品	2.0x10 ⁵	<100	99.9%

菌種：大腸桿菌 ATCC No. 8739

測試項目	接觸 0 小時之菌數 (CFU/___1g)	接觸 24 小時之菌數 (CFU/___1g)	減菌率 (R%)
對照組	2.0x10 ⁵	4.8x10 ⁸	—
測試樣品	2.0x10 ⁵	<100	99.9%

-----oOo-----

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/en/Terms-and-Conditions/Terms-e-Document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

宥撰實業有限公司
新北市泰山區新生路 53-2 號

報告號碼： VA/2012/71402
頁數： 2 OF 3
日期： 2012/08/03

菌種：綠膿桿菌 ATCC No. 9027

測試項目	接觸 0 小時之菌數 (CFU/___1g)	接觸 24 小時之菌數 (CFU/___1g)	減菌率 (R%)
對照組	1.4x10 ⁵	7.5x10 ⁸	—
測試樣品	1.4x10 ⁵	<100	99.9%

菌種：白色念珠菌 ATCC No. 10231

測試項目	接觸 0 小時之菌數 (CFU/___1g)	接觸 24 小時之菌數 (CFU/___1g)	減菌率 (R%)
對照組	1.5x10 ⁵	2.6x10 ⁷	—
測試樣品	1.5x10 ⁵	<100	99.9%

註：AATCC 100 抗菌測試：對照組（空白組）及樣品在 0 及 24 小時與菌體之接觸時間導致菌落形成，將其菌落數相比較，以了解測試樣品抗菌的能力。
減菌率(R%) = (接觸 0 小時之菌數-接觸 24 小時之菌數)/接觸 0 小時之菌數x 100

Yueh Hsiao
Yueh Hsiao, M.S., Supervisor
Signed for and on behalf of
SGS TAIWAN Ltd.
TAIWAN

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/en/Terms-and-Conditions/Terms-e-Document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

檢驗報告

報告編號： UG/2012/70344A-01

日期： 2012年08月13日

頁數： 3 of 3



有撰實業有限公司

243 新北市泰山區新生路53-2號

樣品照片



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/en/Terms-and-Conditions/Terms-e-Document. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.