

**Test Report** 報告號碼: TX20248/2013/PL 日期: 2013 年 02 月 25 日 頁數: 一 之 一 頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

樣品敘述

一塊銀灰色 Sun Tex 健康銀纖維 S101 針織布-

經由客戶自行水洗 20 次(AATCC 135-2(III)(A)i 法)

成

份

69% 棉 31% 銀 PET 紗

財團法人紡織產業綜合研究所

收件日期

2013年02月05日

測試週期

2013年02月05日至02月25日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試: 依美國紡織化學協會 AATCC 100: 2004

試驗菌種: 会	全黃色葡萄球菌 ATCCC	5538
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.1×10 <sup>5</sup>	
樣品組 0 小時菌數(B)	1.1×10 <sup>s</sup>	>99.9
樣品組 24 小時菌數(A)	<100	

## 備計:

- 對照組 0 小時菌數(C)應介於 1.0\*105~2.0\*105 CFU
- 2. 減菌率 R (%) = 100(B-A)/B
- 3. 樣品爲直徑 4.8cm 試驗片,共 4片

由 SGS 相關實驗室執行

台灣檢驗科技股份有限公司

主任

料銀件25×+3%=29

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**Test Report** 報告號碼: TX20248A/2013/PL 日期: 2013年 02月 25日 頁數: 一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

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樣品敘述

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收件日期

2013年02月05日

測試週期

2013年02月05日至02月25日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

試驗菌種:抗藥性金	黃色葡萄球菌(MRSA)	ATCC33591
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.0×10 <sup>5</sup>	
樣品組 0 小時菌數(B)	1.1×10 <sup>5</sup>	>99.9
樣品組 24 小時菌數(A)	<100	

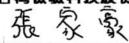
# 備註:

- 對照組 0 小時菌數(C)應介於 1.0\*105~2.0\*105 CFU 1.
- 滅菌率 R (%) = 100(B-A)/B 2.
- 樣品爲直徑 4.8cm 試驗片,共 4片

由 SGS 相關實驗室執行

結 束

# 台灣檢驗科技股份有限公司



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Test Report 報告號碼: TX20248B /2013 /PL 日期: 2013 年 03 月 05 日 頁數: 一 之 一 頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

樣品敘述

一塊銀灰色 Sun Tex 健康銀纖維 S101 針織布-

經由客戶自行水洗 20 次(AATCC 135-2(III)(A)i 法)

成

份

69% 棉 31% 銀 PET 紗

申請者

財團法人紡織產業綜合研究所

收件日期

2013年02月05日

測試週期

2013年02月05日至03月05日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試: 依美國紡織化學協會 AATCC 100: 2004

試驗菌種	: 白色念珠菌 ATCC1023	31
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.1×10 <sup>5</sup>	
樣品組 0 小時菌數(B)	1.1×10 <sup>5</sup>	>99.9
樣品組 24 小時菌數(A)	<100	

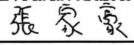
### 備計

- 1. 對照組 0 小時菌數(C)應介於 1.0\*105~2.0\*105 CFU
- 2. 減菌率 R (%) = 100(B-A)/B
- 3. 樣品爲直徑 4.8cm 試驗片,共 4片

由 SGS 相關實驗室執行

\*\*\* 結 束 \*\*\*

# 台灣檢驗科技股份有限公司



# 張家豪

主任

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**Test Report** 報告號碼: TX20249 /2013 /LE 日期: 2013 年 04 月 11 日 頁數: 一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

樣品敘述

一塊銀灰色 Sun Tex 健康銀纖維 S101- 銀纖針織布

(客戶宣稱)

成

69% 棉 31% 銀 PET 紗

申

財團法人紡織產業綜合研究所

收件日期

2013年02月22日

測試週期

2013年02月22日至04月10日

測試項目 & 測試方法:

依申請者要求進行下列測試

## 測試結果:

防黴測試 (依美國紡織化學協會 AATCC 30:2004 Part III,

菌種: 鬚髮癬菌 Trichophyton mentagrophytes (ATCC NO. 9533),培養時間 14天)

菌種在樣品上生長狀況

無生長

## 備註判定:

- 無生長
- 微量生長(以顯微鏡可觀察)
- 大量生長(以肉眼可觀察)

此項由 SGS 相關實驗室執行

**接驗科技股份有限**公司

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**Test Report** 

報告號碼: TX20246 /2013 /PL 日期: 2013 年 02 月 25 日 頁數: 一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

(客戶宣稱)

樣品敘述

一塊銀灰色 Sun Tex 健康銀纖維 S102 -

水洗 20 次(AATCC 135-2(III)(A)i 法 銀纖針織布

成

80% 棉 20% 銀 PET 紗

請 者 財團法人紡織產業綜合研究所

收件日期

2013年02月05日

測試週期

2013年02月05日至02月25日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

全革名南南北古

試験菌種:Staphylococcus aureus ATCC6538		
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.1×10 <sup>5</sup>	SAEG + (KN)
樣品組 0 小時菌數(B)	1.1×10 <sup>5</sup>	>99.9
樣品組 24 小時菌數(A)	<100	

## 備註:

對照組 0 小時菌數(C)應介於 1.0\*105~2.0\*105 CFU 1.

2. 滅菌率 R (%) = 100(B-A)/B

樣品為直徑 4.8cm 試驗片,共 4片 3.

本報告不得分離或擷錄使用

此項由 SGS 相關實驗室執行

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**Test Report** 

報告號碼: TX20246A/2013 /PL 日期: 2013 年 02 月 25 日 頁數: 一 之 一 頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

(客戶宣稱)

樣品敘述

-塊銀灰色 Sun Tex 健康銀纖維 S102 -

水洗 20 次(AATCC 135-2(III)(A)i 法 銀纖針織布

成

80% 棉 20% 銀 PET 紗

申

財團法人紡織產業綜合研究所

收件日期

2013年02月05日

測試週期

2013年02月05日至02月25日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

試驗菌	種:MRSA ATCC33591	
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.0×105	47425-1 (117)
樣品組 0 小時菌數(B)	1.0×10 <sup>5</sup>	>99.9
樣品組 24 小時菌數(A)	<100	

## 備註:

1. 對照組 0 小時菌數(C)應介於 1.0\*105~2.0\*105 CFU

2. 減菌率 R (%) = 100(B-A)/B

3. 樣品為直徑 4.8cm 試驗片,共 4片

4. 本報告不得分離或擷錄使用

此項由 SGS 相關實驗室執行

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**Test Report** 報告號碼: TX20246B/2013/PL 日期: 2013年 03月 05日 頁數: 一之一百

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

(客戶宣稱)

樣品敘述

一塊銀灰色 Sun Tex 健康銀纖維 S102 -

水洗 20 次(AATCC 135-2(III)(A)i 法 銀纖針織布

成

份

80% 棉 20% 銀 PET 紗

申 請 者 財團法人紡織產業綜合研究所

收件日期

2013年02月05日

測試週期

2013年02月05日至03月05日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

試験	儉菌種:白色念珠菌 ATCC10231	
試驗組別	CFU/mL	減菌率(%) (R)
對照組 0 小時菌數(C)	1.1×10 <sup>3</sup>	
樣品組 0 小時菌數(B)	1.1×10 5	>99.9
樣品組 24 小時菌數(A)	<100	

# 備註:

- 1. 對照組 0 小時菌數(C) 應介於 1.0\*105~2.0\*105 (FU
- 2. 滅菌率 R (%) = 100(B-A)/B
- 樣品爲直徑 4.8cm 試驗片,共 4片

此項由 SGS 相關實驗室執行

台灣檢驗科技股份有限公司

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**Test Report** 報告號碼: TX20250 /2013 /PL 日期: 2013 年 04 月 11 日 **頁數:** 一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

樣品敘述

一塊銀灰色 Sun Tex 健康銀纖維 S102- 銀纖針織布

(客戶官稱)

成

80% 棉 20% 銀 PET 紗

諳 者

財團法人紡織產業綜合研究所

收件日期

2013年02月22日

測試週期

2013年02月22日至04月10日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

防黴測試 (依美國紡織化學協會 AATCC 30:2004 Part III,

菌種: 鬚髮癬菌 Trichophyton mentagrophytes (ATCC NO. 9533), 培養時間 14天)

菌種在樣品上生長狀況

無牛長

## 備註判定:

- 無牛長
- 微量生長(以顯微鏡可觀察)
- 大量生長(以肉眼可觀察)

此項由 SGS 相關實驗室執行

胃檢驗科技股份有限公司

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台灣檢驗科技股份有限公司

TWB 0 2 4 4 5 7 5 SGS Taiwan Ltd. 31. Wu Chyuan Road, New Taipei Industrial Park, New Taipei City, Taiwan /新北市新北產業園區五權路31號 技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-4060 www.sgs.tw www.sgs.tw



Test Report 報告號碼: TX72166 /2012 /PL 日期: 2012 年 08 月 09 日 頁數: 一 之 一 頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求.根據財團法人沒交的樣品進行測試如下:

樣品敘述

一塊灰色 Sun Tex 健康銀纖維 S103- 銀纖針織布

(客戶宣稱)

成

份

87% 棉紗 13% 銀 PET 紗

收件日期

2012年07月30日

測試週期

2012年07月30日至08月09日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

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/Diameter 4.8cm

接觸 24 小時之菌數 (CFU/Diameter 4.8cm

減菌<u>率</u> (R%)

1.0x10<sup>5</sup>

 $\frac{x + piece}{4.5x10^7}$ 

對照組 測試樣品

1.0x10<sup>5</sup>

x 4 piece)

<100

99.9%

備計:

减菌率(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 × 100

此項測試由 SGS 相關實驗室執行

\*\*\* 結 击 \*\*\*



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**Test Report** 報告號碼: TX72166A/2012/PL 日期: 2012 年 08 月 09 日 頁數: 一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據財團法人送交的樣品進行測試如下:

樣品敘述

一塊灰色 Sun Tex 健康銀纖維 S103- 銀纖針織布

(客戶宣稱)

成 份 87% 棉紗 13% 銀 PET 紗

收件日期

2012年07月30日

測試週期

2012年07月30日至08月09日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

菌種: 大腸桿菌 ATCC No. 8739

測試項目	接觸 0 小時之菌數 (CFU/ <u>Diameter 4.8cm</u> <u>x 4 piece</u> )	接觸 24 小時之菌數 (CFU/ <u>Diameter 4.8cm</u> x 4 piece)	減菌 <u>率</u> (R%)
對照組	2.0x10 <sup>5</sup>	$3.3x10^{8}$	_
測試樣品	2.0x10 <sup>5</sup>	<100	99.9%

備註: 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 × 100

此項測試由 SGS 相關實驗室執行



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**Test Report** 報告號碼: TX72166B/2012/PL 日期: 2012 年 08 月 09 日 頁數: 一 之 一 頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據財團法人送交的樣品進行測試如下:

樣品敘述

一塊灰色 Sun Tex 健康銀纖維 S103- 銀纖針織布

(客戶宣稱)

成

87% 棉紗 13% 銀 PET 紗

收件日期

2012 年 07 月 30 日

測試週期

2012年07月30日至08月09日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

請參照下一頁結果

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

菌種: 肺炎桿菌 ATCC No. 4352

測試項目

接觸 0 小時之菌數 (CFU/Diameter 4.8cm

接觸 24 小時之菌數 (CFU/Diameter 4.8cm x 4 piece)

减菌率 (R%)

x 4 piece) 1.0x10<sup>5</sup>

1.9x10<sup>8</sup>

對照組 測試樣品

1.0x105

<100

99.9%

减菌率(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 × 100備註:

此項測試由、SGS 相關實驗室執行



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**Test Report** 報告號碼: TX72166D /2012 /PL 日期: 2012 年 08 月 17 日 頁數: 一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據財團法人送交的樣品進行測試如下:

樣品敘述

一塊灰色 Sun Tex 健康銀纖維 S103- 銀纖針織布

(客戶官稱)

成

87% 棉紗 13% 銀 PET 紗

收件日期

2012年07月30日

測試調期

2012年07月30日至08月17日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試: 依美國紡織化學協會 AATCC 100: 2004

菌種:白色念珠菌 ATCC No. 10231

接觸 0 小時之菌數 接觸 24 小時之菌數 減菌率 測試項目 (CFU/Diameter 4.8cm (CFU/Diameter 4.8cm (R%) x 4 piece) x 4 piece) 對照組  $1.4x10^{5}$  $3.1x10^{7}$ 測試樣品  $1.4 \times 10^{5}$ 1.5x104 89.3%

備註: 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 × 100

此項測試由 SGS 相關實驗室執行



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Test Report 報告號碼: TX72166C /2012 /PL 日期: 2012 年 08 月 09 日 頁數: 一 之 一 頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據財團法人送交的樣品進行測試如下:

樣品敘述

一塊灰色 Sun Tex 健康銀纖維 S103- 銀纖針織布

(客戶官稱)

成 份

87% 棉紗 13% 銀 PET 紗

收件日期

2012 年 07 月 30 日

測試週期

2012年07月30日至08月09日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

請參照下一頁結果

測試結果:

對照組

抗菌測試: 依美國紡織化學協會 AATCC 100: 2004

菌種: 綠膿桿菌 ATCC No. 9027

<u>接觸 0 小時之菌數</u> (CFU/<u>Diameter 4.8cm</u>

 觸 0 小時之菌數
 接觸 24 小時之菌數

 // Diameter 4.8cm
 (CFU/Diameter 4.8cm

 x 4 piece)
 x 4 piece)

 $\frac{1.0x10^{\circ}}{1.0x10^{\circ}}$  4.5x10<sup>8</sup>

測試樣品 1.0x10<sup>5</sup> <100

備註: 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 × 100

此項測試由SGS 相關實驗室執行



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SGS Taiwan Ltd. 台灣檢驗科技股份有限公司

31. Wu Chyuan Road, Wu Ku District, New Taipei City, Taiwan /新北市五股區五權路31號 t (886-2) 2299-3939 f (886-2) 2299-3227 www.sgs.tw 減菌率

(R%)

99.9%



**Test Report** 報告號碼: TX20246 /2013 /PL 日期: 2013 年 02 月 25 日 頁數: 一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

(客戶宣稱)

樣品敘述

-塊銀灰色 Sun Tex 健康銀纖維 S102 -

水洗 20 次(AATCC 135-2(III)(A)i 法 銀纖針織布

成

份

80% 棉 20% 銀 PET 紗

串 譜 者 財團法人紡織產業綜合研究所

收件日期

2013 年 02 月 05 日

測試週期

2013年02月05日至02月25日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

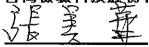
試驗菌種	Staphylococcus aureus ATCC6538	·
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.1×10 <sup>5</sup>	
樣品組 0 小時菌數(B)	1.1×10 <sup>5</sup>	>99.9
樣品組 24 小時菌數(A)	<100	

### 備註:

- 對照組 0 小時菌數(C)應介於 1.0\*105~2.0\*105 CFU 1.
- 減菌率 R (%) = 100(B-A)/B 2.
- 3. 樣品為直徑 4.8cm 試驗片,共 4片
- 本報告不得分離或擷錄使用

此項由 SGS 相關實驗室執行

台灣檢驗科技股份有限公司



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**Test Report** 報告號碼: TX20250 /2013 /PL 日期: 2013 年 04 月 11 日 頁數:一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

樣品敘述

一塊銀灰色 Sun Tex 健康銀纖維 S102- 銀纖針織布

成

(客戶宣稱)

80% 棉 20% 銀 PET 紗

申 譜 者

財團法人紡織產業綜合研究所

收件日期

2013 年 02 月 22 日

測試週期

2013年02月22日至04月10日

測試項目 & 測試方法:

依申請者要求進行下列測試

# 測試結果:

防黴測試 (依美國紡織化學協會 AATCC 30:2004 Part III,

菌種: 鬚髮癬菌 Trichophyton mentagrophytes (ATCC NO. 9533), 培養時間 14天)

菌種在樣品上生長狀況

無生長

### 備註判定:

- 無生長
- 微量生長(以顯微鏡可觀察)
- 大量生長(以肉眼可觀察)

此項由 SGS 相關實驗室執行

束

有限公司

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台灣檢驗科技股份有限公司\_

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**Test Report** 

No: TX71157 /2012 /PL

Date: Aug. 08, 2012

Page: 1 OF 1

New Fibers Textile Corporation 13F-10, No. 31, Minzu Rd., Lujhou District. New Taipei City 247, Taiwan (R.O.C.)

The following sample was submitted and identified by the client as:

Sample Description

One sample of knitted fabric in white

Fiber Content

74.4% Tencel 18.6% Smartcel <sup>™</sup> Sensitive 7% Lycra

Style No.

Single Jersey

Sample Receiving Date

July 17, 2012

Test Performance Period

July 17 to Aug. 08, 2012

Test Performed

Selected test(s) as requested by applicant.

Test Results:

Antibacterial Activity Assessment (AATCC 147 - 2004)

Test Bacteria	T (mm)	D (mm)	W (mm)	Contact Area
Candida albicans ATCC No.10231	40	25	7.5	No Growth

### Note

W = (T - D) / 21:

W = Width of clear zone of inhibition in mm.

T = Total diameter of fabric specimen and clear zone in mm.

D = Diameter of the fabric specimen in mm.

Candida albicans:

No bacterial colonies in the contact area, clear zone of inhibition beyond specimen edge.

Tested by relevant SGS laboratory.

\*\*\* End of Report \*\*\*

Signed for and on behalf of SGS Taiwan Ltd.

Chang Chia Hao, Ronnie

Supervisor

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TWA 8 2 3 2 2 9 6



**Test Report** 報告號碼: TX72174/2012/PL 日期: 2012 年 08 月 10 日 頁數:一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據財團法人紡織產業綜合研究所送交的樣品進行測試如下:

樣品敘述

一塊 Sun Tex 健康銀纖維 S102 - 銀纖針織布(灰)

(客戶宣稱)

成

份

80% 棉紗 20% 銀 PET 紗

收件日期

2012 年 07 月 30 日

測試週期

2012 年 07 月 30 日 至 08 月 09 日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試: 依美國紡織化學協會 AATCC 100: 2004

菌種:金黃色葡萄球菌 ATCC No. 6538

接觸 0 小時之菌數 試 項 目 (CFU/Diameter 4.8cm x 4 piece)

接觸 24 小時之菌數 (CFU/Diameter 4.8cm x 4 piece)

減菌率 (R%)

對照組

1.0x105

 $4.5 \times 10^7$ 

測試樣品

1.0x10<sup>5</sup>

<100

99.9%

備註:

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 × 100

由 SGS 相關實驗室執行



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Test Report 報告號碼: TX72174A /2012 /PL 日期: 2012 年 08 月 10 日 頁數: 一 之 一 頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據財團法人紡織產業綜合研究所送交的樣品進行測試如下:

樣品敘述

一塊 Sun Tex 健康銀纖維 S102 - 銀纖針織布(灰)

成

份

(客戶宣稱)

80% 棉紗 20% 銀 PET 紗

收件日期

2012年07月30日

測試週期

2012 年 07 月 30 日 至 08 月 09 日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

菌種:大腸桿菌 ATCC No. 8739

測試項目

接觸 0 小時之菌數 (CFU/<u>Diameter 4.8cm</u> x 4 piece)

(CFU/<u>Diameter 4.8cm</u> x 4 piece)

減菌<u>率</u> (R%)

對照組

1.5x10<sup>5</sup>

3.5x10<sup>8</sup>

接觸 24 小時之菌數

測試樣品

1.5x10<sup>5</sup>

<100

99.9%

備註:

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 × 100

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\*\*\* 結 東 \*\*



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**Test Report** 報告號碼: TX72174B/2012/PL 日期: 2012年 08月 10日 頁數:一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據財團法人紡織產業綜合研究所送交的樣品進行測試如下:

樣品敘述

一塊 Sun Tex 健康銀纖維 S102 - 銀纖針織布(灰)

(客戶宣稱)

成

80% 棉紗 20% 銀 PET 紗

收件日期

2012 年 07 月 30 日

測試週期

2012 年 07 月 30 日 至 08 月 09 日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試: 依美國紡織化學協會 AATCC 100: 2004

菌種:肺炎桿菌 ATCC No. 4352

接觸 0 小時之菌數 測試項目

(CFU/Diameter 4.8cm x 4 piece)

接觸 24 小時之菌數 (CFU/Diameter 4.8cm x 4 piece)

減菌率 (R%)

對照組

1.0x105

 $1.9x10^{8}$ 

測試樣品

1.0x105

<100

99.9%

備註:

减菌率(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 × 100

由 SGS 相關實驗室執行



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**Test Report** 報告號碼: TX72174C/2012/PL 日期: 2012 年 08 月 10 日 頁數:一之一頁

昕德紡織股份有限公司

彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據財團法人紡織產業綜合研究所送交的樣品進行測試如下:

樣品敘述

一塊 Sun Tex 健康銀纖維 S102 - 銀纖針織布(灰)

(客戶宣稱)

成

份

80% 棉紗 20% 銀 PET 紗

收件日期

2012 年 07 月 30 日

測試週期

2012 年 07 月 30 日 至 08 月 09 日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

菌種:綠膿桿菌 ATCC No. 9027

測 試 項 目

接觸 0 小時之菌數 (CFU/Diameter 4.8cm x 4 piece)

接觸 24 小時之菌數 (CFU/Diameter 4.8cm x 4 piece)

減菌率 (R%)

1.0x105

 $4.5x10^8$ 

對照組 測試樣品

1.0x10<sup>5</sup>

<100

99.9%

備註:

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 × 100

由 SGS 相關實驗室執行



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**Test Report** 

No: TX72174F /2012 /PL

Date: Sep. 18, 2012

Page: 1 OF 1

Sun Tex Textile Co., Ltd. No.26, Ln. 138, Fuxing Rd., Shetou Township, Changhua County 511, Taiwan (R.O.C.)

The following sample was submitted and identified by Taiwan Textile Research as:

Sample Description

One sample of SUN TEX healthy silver yarn S102 knitted fabric with

silver fiber in gray

Fiber Content

(As declared)

80% Cotton 20% Silver Yarn

Sample Receiving Date

July 30, 2012

Test Performance Period

July 30 to Aug. 09, 2012

Test Performed

Selected test(s) as requested by applicant.

Test Results:

Antibacterial Finishes on Textile Materials (AATCC 100 - 2004)

Test Bacteria: Staphylococcus aureus ATCC No. 6538

	Counts At "0 Hr"	Counts At "24hr"	
Tost Itom	Contact Time	Contact Time	Reduction
Test Item	(CFU/Diameter 4.8cm x	(CFU/Diameter 4.8cm x	(R%)
	4 piece)	4 piece)	
Negative Control Specimen	1.0×10 <sup>5</sup>	4.5x10 <sup>7</sup>	_
Test Specimen	1.0x10 <sup>5</sup>	<100	99.9%

Note:

Reduction(%) = (Counts At "0 Hr" Contact Time - Counts At "24hr" Contact Time )/ Counts At "0 Hr" Contact Time × 100

Tested by relevant SGS laboratory.

Remark: Test results have been taken from report number TX72174/2012/PL, Date: Aug. 10, 2012



\*\*\* End of Report \*\*\*

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TWA 8 6 6 1 6 6 TWA 8661664



**Test Report** 

No: TX72174G /2012 /PL

Date: Sep. 18, 2012

Page: 1 OF 1

Sun Tex Textile Co., Ltd. No.26, Ln. 138, Fuxing Rd., Shetou Township, Changhua County 511, Taiwan (R.O.C.)

The following sample was submitted and identified by Taiwan Textile Research as:

Sample Description

One sample of SUN TEX healthy silver yarn S102 knitted fabric with

silver fiber in gray

Fiber Content

(As declared)

80% Cotton 20% Silver Yarn

Sample Receiving Date

July 30, 2012

Test Performance Period

July 30 to Aug. 09, 2012

Test Performed

Selected test(s) as requested by applicant.

Test Results:

Antibacterial Finishes on Textile Materials (AATCC 100 - 2004)

Test Bacteria: Escherichia. coli ATCC No. 8739

Counts At "0 Hr" Counts At "24hr" Contact Time **Contact Time** Reduction Test Item (CFU/Diameter 4.8cm x (CFU/Diameter 4.8cm x (R%) 4 piece) 4 piece) **Negative Control** 1.5x10<sup>5</sup> 3.5x108 Specimen Test Specimen 1.5x10<sup>5</sup> <100 99.9%

Note:

Reduction(%) = (Counts At "0 Hr" Contact Time - Counts At "24hr" Contact Time )/ Counts At "0 Hr" Contact Time × 100

Tested by relevant SGS laboratory.

Remark: Test results have been taken from report number TX72174A/2012/PL, Date: Aug. 10, 2012

Signated for and on behalf of Sos Taiwan Ito Sur Han Wei Yi, Clare Test Specialist

\*\*\* End of Report \*\*\*

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**Test Report** 

No: TX72174H /2012 /PL

Date: Sep. 18, 2012

Page: 1 OF 1

Sun Tex Textile Co., Ltd. No.26, Ln. 138, Fuxing Rd., Shetou Township, Changhua County 511, Taiwan (R.O.C.)

The following sample was submitted and identified by Taiwan Textile Research as:

Sample Description

One sample of SUN TEX healthy silver yarn S102 knitted fabric with

silver fiber in gray

Fiber Content

(As declared)

80% Cotton 20% Silver Yarn

Sample Receiving Date

July 30, 2012

Test Performance Period

July 30 to Aug. 09, 2012

Test Performed

Selected test(s) as requested by applicant.

Test Results:

Antibacterial Finishes on Textile Materials (AATCC 100 - 2004)

Test Bacteria : Klebsiella pneumoniae ATCC No. 4352

Counts At "0 Hr" Counts At "24hr" Contact Time Contact Time Reduction Test Item (CFU/Diameter 4.8cm x (CFU/Diameter 4.8cm x (R%) 4 piece) 4 piece) Negative Control 1.0x10<sup>5</sup> 1.9x108 Specimen

Test Specimen

1.0x10<sup>5</sup>

<100

99.9%

Note:

Reduction(%) = (Counts At "0 Hr" Contact Time - Counts At "24hr" Contact Time )/ Counts At "0 Hr" Contact Time × 100

Tested by relevant SGS laboratory.

Remark: Test results have been taken from report number TX72174B/2012/PL, Date: Aug. 10, 2012

\*\*\* End of Report \*\*\*



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TWA 8 6 6 1 6 6 TWA 8661666

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**Test Report** 

No: TX72174I /2012 /PL

Date: Sep. 18, 2012

Page: 1 OF 1

Sun Tex Textile Co., Ltd. No.26, Ln. 138, Fuxing Rd., Shetou Township, Changhua County 511, Taiwan (R.O.C.)

The following sample was submitted and identified by Taiwan Textile Research as:

Sample Description

One sample of SUN TEX healthy silver yarn S102 knitted fabric with

silver fiber in gray

Fiber Content

(As declared)

80% Cotton 20% Silver Yarn

Sample Receiving Date

July 30, 2012

Test Performance Period

July 30 to Aug. 09, 2012

Test Performed

Selected test(s) as requested by applicant.

Test Results:

Antibacterial Finishes on Textile Materials (AATCC 100 - 2004)

TEST BACTERIA: Pseudomonas aeruginosa ATCC 9027

Counts At "0 Hr" Counts At "24hr" Contact Time Reduction Contact Time Test Item (CFU/Diameter 4.8cm x (CFU/Diameter 4.8cm x (R%) 4 piece) 4 piece) **Negative Control** 4.5x108 1.0x10<sup>5</sup> Specimen

Test Specimen

1.0x10<sup>5</sup>

<100

99.9%

Note:

Reduction(%) = (Counts At "0 Hr" Contact Time - Counts At "24hr" Contact Time )/ Counts At "0 Hr" Contact Time × 100

Tested by relevant SGS laboratory.

Remark: Test results have been taken from report number TX72174C/2012/PL, Date: Aug. 10, 2012



\*\*\* End of Report \*\*\*

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**Test Report** 

No: TX80942 /2012 /PL

Date: Sep. 04, 2012

Page: 1 OF 1

**New Fibers Textile Corporation** 13F-10, No. 31, Minzu Rd., Lujhou District, New Taipei City 247, Taiwan (R.O.C.)

The following sample was submitted and identified by the client as:

Sample Description

One sample of knitted fabric in white

(As declared)

Fiber Content

74.4% Tencel 18.6% Smartcel <sup>™</sup> Sensitive 7% Lycra

Style No.

Single Jersey

Sample Receiving Date

Aug. 15, 2012

Test Performance Period

Aug. 15 to Sep. 04, 2012

Test Performed

Selected test(s) as requested by applicant.

Test Results:

Antibacterial Finishes on Textile Materials (AATCC 100 - 2004)

TEST BACTERIA: Candida albicans ATCC 10231

<u>TEST ITEM</u>	Counts At "0 Hr"  Contact Time	Counts At "24hr" Contact Time	REDUCTION
	(CFU/ <u>Diameter 4.8cm x</u> 4 piece)	(CFU/ <u>Diameter 4.8cm</u> <u>x 4 piece</u> )	<u>(R%)</u>
NEGATIVE CONTROL SPECIMEN	1.0x10 <sup>5</sup>	2.8x10 <sup>6</sup>	_
TEST SPECIMEN	1.0x10 <sup>5</sup>	4.3x10 <sup>3</sup>	95.7%

NOTE:

Reduction(%) = (Counts At "0 Hr" Contact Time - Counts At "24hr" Contact Time )/

Counts At "0 Hr" Contact Time × 100

Tested by relevant SGS laboratory.

\*\*\* End of Report \*\*\*

Signed for and on behalf of SGS Taiwan Ltd.

Kuo Ling, Cherry

Supervisor

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TWA8665532



**Test Report** 報告號碼: TX81696 /2013 /LE 日期: 2013 年 09 月 02 日 頁數: 一之一頁

昕德紡織股份有限公司 彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

品 敘 述 樣

: 一塊平織銀纖布-301202(1)

額

色

銀灰色

成

份

銀纖維 + 棉

申 請 者

財團法人紡織產業綜合研究所

收 件  $\exists$ 期 2013 年 08 月 20 日

測 試 调 期 2013年08月20日至2013年09月02日

測試項目 & 測試方法

: 依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2012

試驗菌種:	金黃色葡萄球菌 ATCC 65	538
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.5×10 <sup>5</sup>	77
樣品組 0 小時菌數(B)	1.5×10 <sup>5</sup>	>99.9
樣品組 24 小時菌數(A)	<100	

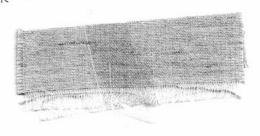
# 備註:

- 1. 對照組 0 小時菌數(C)應介於 1.0\*105~2.0\*105 CFU/mL
- 2. 減菌率 R (%) = 100(B-A)/B
- 3. 樣品為直徑 4.8cm 試驗片,共 4 片

此項測試由 SGS 相關實驗室執行

結 束





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**Test Report** 

報告號碼: TXA0487 /2012 /PL

日期: 2012年11月20日

頁數:一之一頁

昕德紡織股份有限公司 彰化縣社頭鄕埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據財團法人紡織產業綜合研究所所送交的樣品進行測試如下:

樣品敘述

一塊灰色 Sun Tex 健康銀纖維 S102-銀纖針織布

成

份

80% 棉 20% 銀 PET 紗

收件日期

2012年10月05日

測試週期

2012年10月05日至11月20日

測試項目 & 測試方法:

依申請者要求進行下列測試

測試結果

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

菌種:白色念珠菌 ATCC No. 10231

試 項 目

接觸 0 小時之菌數 (CFU/Diameter 4.8cm x 4 piece)

接觸 24 小時之菌數 (CFU/Diameter 4.8cm x 4 piece)

減菌率 (R%)

對照組

1.0x10<sup>5</sup>

4.8x106

測試樣品

1.0x10<sup>5</sup>

<100

99.9%

備計:

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 × 100

以上測試由 SGS 相關實驗室執行



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Test Report 報告號碼: TXA0492 /2012 /LE 日期: 2012 年 10 月 22 日 頁數: 一之一頁

今煌織襪廠

彰化縣社頭鄉社頭村仁愛一路 7號 1F

我們依照客戶的要求,根據財團法人紡織產業綜合研究所所送交的樣品進行測試如下:

樣 品 敘 述 : 一雙黑色無痕抗菌健康襪

成 份: 90% 棉 10% 銀 PET 纖維

收件日期 : 2012年10月05日

測 試 週 期 : 2012 年 10 月 05 日 至 10 月 22 日

測試項目 & 測試方法: 依申請者要求進行下列測試

測試結果

抗菌測試:依美國紡織化學協會 AATCC 100: 2004

測腳底部位

菌種:金黃色葡萄球菌 ATCC No. 6538

接觸 0 小時之菌數 接觸 24 小時之菌數 減菌率 測試項目 (CFU/Diameter 4.8cm (CFU/Diameter 4.8cm (R%) x 4 piece) x 4 piece)  $5.6 \times 10^{7}$ 對照組  $1.1 \times 10^{5}$  $1.1x10^{5}$ 測試樣品 <100 99.9%

備註: 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 × 100

由 SGS 相關實驗室執行

\*\*\* 結 束 \*\*\*

# 台灣檢驗科技股份有限公司



# 張家豪 主任

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**Test Report** 報告號碼: TXB1111 /2013 /PL 日期: 2013 年 11 月 27 日 頁數: 一之一頁

昕德紡織股份有限公司 彰化縣社頭鄉埤斗村復興路 138 巷 26 號

我們依照客戶的要求,根據申請者送交的樣品進行測試如下:

品 樣

一塊針織 ES1310002-0001 銀纖單面細洞布

顏

色

淺藍色

58"

成

份

85% POLYESTER 10.5% SPANDEX 4.5% SILVER FIBER (銀纖) 220g/y

布 幅

申 請

財團法人紡織產業綜合研究所

收 H 期 2013年11月14日

測 試 期 2013年11月14日至2013年11月27日

測試項目 & 測試方法

: 依申請者要求進行下列測試

測試結果:

抗菌測試:依美國紡織化學協會 AATCC 100: 2012

測背面\*

試驗菌種	金黃色葡萄球菌 ATCC653	38
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.7×10 <sup>5</sup>	(2007)
樣品組 0 小時菌數(B)	1.7×10 <sup>5</sup>	>99.9
樣品組 24 小時菌數(A)	<100	

### 備註:

1. 對照組 0 小時菌數(C)應介於 1.0\*105~2.0\*105 CFU/mL

2. 減菌率 R (%) = 100(B-A)/B

3. 樣品為直徑 4.8cm 試驗片,共 6片

此項測試由 SGS 相關實驗室執行

\*依客戶的要求測背面



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TWB1651664



**Test Report** 

No: TXB1111B /2013 /PL

Date: Dec. 12, 2013

Page: 1 OF 1

Sun Tex Textile Co., Ltd No.26, Lin.138, Fuxing Rd., Shetou Township, Changhua County 511Taiwan (R.O.C)

The following sample was submitted and identified by applicant as:

Sample Description

One sample of ES1310002-0001 silver fiber fine hole single jersey

Color

Fiber Content

85% Polyester 10.5% Spandex 4.5% Silver Fibe

Fabric Weight

220g/y

Fabric Width

58"

Applicant

Taiwan Textile Research Institute

Sample Receiving Date

Nov. 14, 2013

Test Performance Period

Nov. 14, 2013 to Nov. 27, 2013

Test Performed

Selected test(s) as requested by applicant.

Test Results:

Antibacterial Finishes on Textile Materials (AATCC 100 - 2012)

Test Bacteria : Staphylococcus aureus ATCC No. 6538		
Test Group	CFU/mL	Reduction (R)%
Untreated control at "0" hr (C)	1.7×10 <sup>5</sup>	<u> </u>
Treated test at " 0 " hr (B)	1.7×10 <sup>5</sup>	>99.9
Treated test at " 24 " hr (A)	<100	

### Note:

- Bacteria counts of untreated control at "0" hr (C) should be at 1.0\*105 to 2.0\*105 CFU 1.
- R(%) = 100(B-A)/B2. Reduction
- Samples are 4.8 cm in diameter, 6 swatches in total. 3.

Tested by relevant SGS laboratory.

Remark: Test results have been taken from report number TXB1111/2013/PL, Date: Nov. 27, 2013

\*\*\* End of Report \*\*\*

Signed for and on behalf

SGS Taiwan Ltd.

Hsu Wei Yi, Clare **Test Specialist** 

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TWB 2262535