

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 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: 金黃色葡萄球菌 ATCC6538		
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.1×10^5	>99.9
樣品組 0 小時菌數(B)	1.1×10^5	
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 $1.0 \times 10^5 \sim 2.0 \times 10^5$ CFU
2. 減菌率 R (%) = $100(B-A)/B$
3. 樣品為直徑 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

張家豪
主任

OP 20% + 金銀 14 25% + 3% = 20%

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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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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 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)	1.0×10^5	>99.9
樣品組 0 小時菌數(B)	1.1×10^5	
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 $1.0 \times 10^5 \sim 2.0 \times 10^5$ CFU
2. 減菌率 R (%) = $100(B-A)/B$
3. 樣品為直徑 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

張家豪
主任

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紡織實驗室

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 ATCC10231		
試驗組別	CFU/mL	滅菌率(R%)
對照組 0 小時菌數(C)	1.1×10^5	>99.9
樣品組 0 小時菌數(B)	1.1×10^5	
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 $1.0 \times 10^5 \sim 2.0 \times 10^5$ CFU
2. 滅菌率 R (%) = $100(B-A)/B$
3. 樣品為直徑 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

張家豪
主任

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TWA 9522865

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台灣檢驗科技股份有限公司

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紡織實驗室

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

成份 : (客戶宣稱)
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 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

*** 結 束 ***

台灣檢驗科技股份有限公司

張美華

張美華
主任

OP 20% + 75% 銀 14 + C3% = 20%

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台灣檢驗科技股份有限公司

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紡織實驗室

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:

樣品敘述 : (客戶宣稱)
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 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

金黃色葡萄球菌

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)	1.1×10^5	>99.9
樣品組 0 小時菌數(B)	1.1×10^5	
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 $1.0 \times 10^5 \sim 2.0 \times 10^5$ 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

*** 結 束 ***

台灣檢驗科技股份有限公司

張美華

主任

CM 30% + 銀 47.5% = 12.1

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紡織實驗室

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 : 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 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)	1.0×10^5	>99.9
樣品組 0 小時菌數(B)	1.0×10^5	
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 $1.0 \times 10^5 \sim 2.0 \times 10^5$ CFU
2. 減菌率 R (%) = $100(B-A)/B$
3. 樣品為直徑 4.8cm 試驗片, 共 4 片
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此項由 SGS 相關實驗室執行

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台灣檢驗科技股份有限公司

張美華
主任

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紡織實驗室

Test Report

報告號碼: TX20246B /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 : (客戶宣稱)
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

試驗菌種: 白色念珠菌 ATCC10231		
試驗組別	CFU/mL	滅菌率(%) (R)
對照組 0 小時菌數(C)	1.1×10^5	>99.9
樣品組 0 小時菌數(B)	1.1×10^5	
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 $1.0 \times 10^5 \sim 2.0 \times 10^5$ CFU
2. 滅菌率 R (%) = $100(B-A)/B$
3. 樣品為直徑 4.8cm 試驗片, 共 4 片

此項由 SGS 相關實驗室執行

*** 結 束 ***

台灣檢驗科技股份有限公司

張美華

主任

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紡織實驗室

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

成份 : (客戶宣稱)
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 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

*** 結 束 ***

台灣檢驗科技股份有限公司

張美華

張美華
主任

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TWB0244575

SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

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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

成份 : (客戶宣稱)
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 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 ⁵	4.5x10 ⁷	—
測試樣品	1.0x10 ⁵	<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

*** 結 束 ***



黑 41 30/3 + 銀 4 750/36H

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TWA8230992



紡織實驗室

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

成份 : (客戶宣稱)
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/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	2.0×10^5	3.3×10^5	—
測試樣品	2.0×10^5	<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

*** 結 束 ***



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TWA 8230993

SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

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紡織實驗室

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

成份 : (客戶宣稱)
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 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	1.0×10^5	1.9×10^8	—
測試樣品	1.0×10^5	<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

*** 結 束 ***



台灣檢驗科技股份有限公司

林美吟
技術員 TAIWAN

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紡織實驗室

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 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

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%)
對照組	1.4×10^5	3.1×10^7	—
測試樣品	1.4×10^5	1.5×10^4	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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紡織實驗室

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

成份 : (客戶宣稱)
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: 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%)
對照組	1.0x10 ⁵	4.5x10 ⁸	—
測試樣品	1.0x10 ⁵	<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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紡織實驗室

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:

樣品敘述 : (客戶宣稱)
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 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)	1.1×10^5	>99.9
樣品組 0 小時菌數(B)	1.1×10^5	
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 $1.0 \times 10^5 \sim 2.0 \times 10^5$ 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

*** 結 束 ***

台灣檢驗科技股份有限公司

張美華
主任

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紡織實驗室

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

成份 : (客戶宣稱)
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 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

*** 結 束 ***

台灣檢驗科技股份有限公司

張美華
主任

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Textile Laboratory

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% SmartcelTM 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

1: $W = (T - D) / 2$

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.

2: 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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紡織實驗室

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)

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: 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 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	1.0×10^5	4.5×10^7	—
測試樣品	1.0×10^5	<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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TWA 8231161

SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

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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/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	1.5×10^5	3.5×10^8	—
測試樣品	1.5×10^5	<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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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: 肺炎桿菌 ATCC No. 4352

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%)
對照組	1.0×10^5	1.9×10^8	—
測試樣品	1.0×10^5	<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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TWA8231159



紡織實驗室

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)

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: 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%)
對照組	1.0×10^5	4.5×10^8	—
測試樣品	1.0×10^5	<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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TWA8231158

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Textile Laboratory

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

Test Item	Counts At "0 Hr"	Counts At "24hr"	Reduction (R%)
	Contact Time (CFU/Diameter 4.8cm x 4 piece)	Contact Time (CFU/Diameter 4.8cm x 4 piece)	
Negative Control Specimen	1.0x10 ⁵	4.5x10 ⁷	—
Test Specimen	1.0x10 ⁵	<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 8661664



Textile Laboratory

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

Test Item	Counts At "0 Hr"	Counts At "24hr"	Reduction (R%)
	Contact Time (CFU/Diameter 4.8cm x 4 piece)	Contact Time (CFU/Diameter 4.8cm x 4 piece)	
Negative Control Specimen	1.5x10 ⁵	3.5x10 ⁸	—
Test Specimen	1.5x10 ⁵	<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

*** End of Report ***



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TWA 8661665

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

Test Item	Counts At "0 Hr"	Counts At "24hr"	Reduction (R%)
	Contact Time (CFU/Diameter 4.8cm x 4 piece)	Contact Time (CFU/Diameter 4.8cm x 4 piece)	
Negative Control Specimen	1.0x10 ⁵	1.9x10 ⁸	—
Test Specimen	1.0x10 ⁵	<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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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

Test Item	Counts At "0 Hr"	Counts At "24hr"	Reduction (R%)
	Contact Time	Contact Time	
	(CFU/Diameter 4.8cm x 4 piece)	(CFU/Diameter 4.8cm x 4 piece)	
Negative Control Specimen	1.0x10 ⁵	4.5x10 ⁸	—
Test Specimen	1.0x10 ⁵	<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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TWA 8661667



Textile Laboratory

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™ 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

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

Cherry Kuo

Kuo Ling, Cherry
Supervisor

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SGS Taiwan Ltd.
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Member of SGS Group

TWA8665532

1006

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:

樣品敘述 : 一塊平織銀纖布-301202(1)

顏色 : 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

收件日期 : 2013 年 08 月 20 日

測試週期 : 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

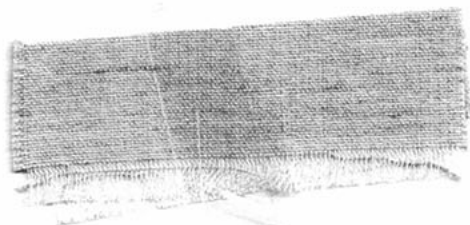
試驗菌種: 金黃色葡萄球菌 ATCC 6538		
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.5×10^5	>99.9
樣品組 0 小時菌數(B)	1.5×10^5	
樣品組 24 小時菌數(A)	<100	

備註:

1. 對照組 0 小時菌數(C)應介於 $1.0 \times 10^5 \sim 2.0 \times 10^5$ 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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TWB 0241720

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

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%)
對照組	1.0×10^5	4.8×10^6	—
測試樣品	1.0×10^5	<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

以上測試由 SGS 相關實驗室執行

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紡織實驗室

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

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%)
對照組	1.1×10^5	5.6×10^7	—
測試樣品	1.1×10^5	<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

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:

樣品敘述 : 一塊針織 ES1310002-0001 銀纖單面細洞布
顏色 : 淺藍色
成份 : 85% POLYESTER 10.5% SPANDEX 4.5% SILVER FIBER (銀纖)
布重 : 220g/y
幅寬 : 58"
申請者 : 財團法人紡織產業綜合研究所
收件日期 : 2013 年 11 月 14 日
測試週期 : 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 ATCC6538		
試驗組別	CFU/mL	減菌率(R%)
對照組 0 小時菌數(C)	1.7×10^5	>99.9
樣品組 0 小時菌數(B)	1.7×10^5	
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 $1.0 \times 10^5 \sim 2.0 \times 10^5$ 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

*** 結 束 ***

台灣檢驗科技股份有限公司



張美華
主任

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TWB1651664



Textile Laboratory

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 : Blue
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)	1.7×10^5	>99.9
Treated test at " 0 " hr (B)	1.7×10^5	
Treated test at " 24 " hr (A)	<100	

Note:

1. Bacteria counts of untreated control at " 0 " hr (C) should be at 1.0×10^5 to 2.0×10^5 CFU
2. Reduction R (%) = $100(B-A)/B$
3. Samples are 4.8 cm in diameter, 6 swatches in total.

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 of
SGS Taiwan Ltd.

Clare Hsu
Hsu Wei Yi, Clare
Test Specialist



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