

Think Taiwan for Eco -Textiles

- Sustainable
- Innovative
- Functional
- Fashionable

Taiwan 2021/2022  
<http://eco.textiles.org.tw>  
EcoTextiles



Taiwan Textile Federation



## Springfil® Features

- ◆ **Natural Look & Cottony Hand Feel**  
*Softness & Relax your tense*
- ◆ **Good Stretch & Recovery**  
*Comfortable for daily wearing*
- ◆ **Good Sublimation & Chlorine Resistance**  
*Withstand the chemical treatments*
- ◆ **Better Air Permeability**  
*More Breathability & Quick Dry*
- ◆ **Environmental sustainability**  
*Without spandex, garments could be fully recycled*



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Poly recycle yarn



**RePET**<sup>®</sup>  
Recycled polyester yarn



**NylonPlus**<sup>®</sup>  
Nylon recycle yarn



**ReEcoya**<sup>®</sup>  
Recycled solution dyed yarn



LI PENG ENTERPRISE CO., LTD.  
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# FENC® TOPGREEN® ECO Friendly

Recycled Filament / Recycled CD Filament / Recycled Stretch Filament

## Recycled PET Filament 聚酯回收纖維

**產品簡介** 以回收寶特瓶為原料，經過粉碎、清洗、分解、聚合、造粒、加熱熔融、抽絲及假撚加工製成的纖維，是對地球生態絕對環保之素材。

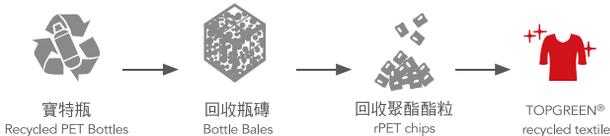
TOPGREEN® recycled filament is an outstanding environment-friendly fiber based on the material of recycled post-consumer PET bottles, which were processed through grinding, washing, melting, re-polymerizing, spinning, and texturizing to yarn.

### 產品特色

- 使用最環保技術所生產的再生纖維  
Utilizes the most state-of-the-art recycling
- 減輕環境負擔，善盡地球公民責任  
Repurposes waste, reduces our reliance on petrochemicals and prevents environmental pollution
- 可追溯性  
FENC® Recycling is completely traceable from post consumer to yarn

### 認證

- GRS(CU815435GRS-04.2022)
- SCS(SCS-MC-02150)
- 台灣環保標章 Taiwan Green Mark (Issued by Taiwan EPA)
- Oeko-tex Standard 100 Approved (TPFO 042351)



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– Gloria Lien gloria.lien@fenc.com (O)+886-2-2737-8814



# 將紡織品廢料 轉化成新纖維 只是 一個開始

萊卡公司致力於減少紡織服飾產業對地球的影響  
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攜手萊卡 循環再生

[TheLycraCompany.com/loop](https://TheLycraCompany.com/loop)  
品牌諮詢：Sylvia.lin@LYCRA.com



The LYCRA Company

COOLMAX®和THERMOLITE®是萊卡公司的商標。

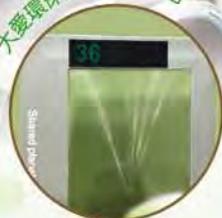




齋戒防疫·萬物共生

# 防疫心品守護愛 共同攜手結善緣

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大愛環保泡棉防疫面罩



大愛環保抗菌口罩



大愛防眩光套鏡+護目罩組



因應新型冠狀病毒疫情，大愛感恩科技研發一系列大愛環保防疫產品，包含大愛防眩光套鏡+護目罩組、大愛環保泡棉防疫面罩、大愛環保抗菌口罩+大愛機能濾片、大愛環保放大鏡感溫貼等，材料利用廢棄塑膠再製而成，在疫情緊張的時刻，讓人們安定身心守護健康。政府與民間企業持續進行各項防疫工作，大愛感恩科技提供有形的「物資關懷」，捐贈大愛環保防疫守護組合，做為人們防疫的後盾，共同防堵疫情擴散不遺餘力，感恩第一線防疫人員的辛苦，虔誠祈禱天下平安，提升善念來消弭災難。

## DA.AI Eco Pandemic Prevention Products — Join Hands Together to Form Good Affinities

In response to the COVID-19 outbreak, DA.AI Technology developed a series of eco pandemic prevention products made of recycled PET material, including DA.AI Eco Anti-Glare Glasses with Face Shield Set, Eco Protective Face Shield, Eco Antibacterial Mask + Filter Piece, and Eco Fever Test Card + Magnifier card. To support the government and people in the fight against COVID-19, the development of DA.AI Eco Pandemic Prevention Package as personal protection equipment (PPE) for government agencies, the public, and companies at a time of the intense outbreak of COVID-19, to work together to prevent the spread of the pandemic and grateful for the hard work of the first-line pandemic prevention personnel and showing love in action.



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- Umorfil®
- Lyocell
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- BOOMETEX® Stretch Recycled Polyester & Polyamide
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- Solution Dye
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- Permawarm® - Thermal Insulation
- Trans-Uno® One-way Moisture Transferring
- AQUAOFF® Super Critical CO<sub>2</sub> Dye

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- ♻️ *Recycled Nylon Fabric*
- ♻️ *Solution Dyed Fabric*
- ♻️ *Polypropylene Fabric*

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- 💧 *PFOA/PFOS Free*
- 💧 *PVC-Free Lamination*
- 💧 *TPU/TPE Lamination*
- 💧 *Water Based Coating*

# GO GREEN





# PIONEERING A GREENER, SMARTER SUPPLY CHAIN

## •• New Wide Recycled Water Treatment System

The wastewater treatment system, with more than 8 filtering steps, to generate more reusable water resource. We have saved more than **1,100 Olympic pools** of water since 2014.



## •• About New Wide

New Wide Enterprises Co. Ltd., the parent company of New Wide Group, was established in 1975 in Taiwan. Our global intelligent knitting supply chain, from market trends, R&D, knitting, dyeing, to garment manufacturing, enables us to be more resilient, agile in rapidly changing markets. For next generations, New Wide is committed to advancing textiles for a sustainable world through greener, intelligent manufacturing. We work closely with supplier partners as a pioneer on developing innovative green textiles and digital transformation. Aligned with brand clients, we strive to develop low-carbon circular supply chain for fashion and apparel industry.



E-mail : [newwide@newwide.com](mailto:newwide@newwide.com)  
Website: [www.newwide.com](http://www.newwide.com)



New Wide Group Design Center



Solar Power Supply



Automated Warehouse System



IDCC Intelligent Data Control Center



Cambodia New Wide Garment



Changzhou New Wide Knitting and Dyeing



Kenya New Wide Garment



Vietnam New Wide Garment

# The U.S. Cotton Trust Protocol

— — — — brings quantifiable and verifiable sustainability goals and measurement to U.S. cotton production enabling brands and retailers around the world to more confidently source U.S. cotton.



Don't be left out,  
**sign up** today.

[TrustUSCotton.org](https://TrustUSCotton.org)  
[#TrustProtocolGrower](https://TrustUSCotton.org)



U.S. COTTON  
**TRUST PROTOCOL**<sup>®</sup>  
Trust in a smarter cotton future

# 永光化學 提供安全及環境友善的染料

## 安全保證 / 認證會員

- TRCA, 中華民國化學工業責任照顧協會
- ETAD, 染料及有機顏料製造商生態和毒理學協會
- ZDHC, 有害化學物質零排放組織



## 通過第三方認證

- Bluesign, 藍色標誌標準(Bluesign standard)
- GOTS, Global Organic Textile Standard 全球有機紡織品標準
- Inditex 集團合格化驗供應商



THE LIST

by INDITEX



Better Chemistry Better Life

Everlight  
Chemical

# Better Chemistry Better Life



永光化學追求進步創新，以滿載的研究熱情，透過不斷的加乘與連結，創造出許許多多的可能。

永光，以化學專業給予客戶最大支持，協助客戶邁向成功，也為美好的社會及永續的未來，做出具體貢獻。

我們相信，運用對的化學品，可以讓生活更美好！

- **色料化學品**：染料、數位列印耗材
- **特用化學品**：光穩定劑、紫外線吸收劑
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- **電子化學品**：光刻膠、顯影液、拋光液
- **全通科技**：碳粉



**Everlight Chemical Industrial Corp.**

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**Everlight  
Chemical**



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Sustainable  
Innovative  
Functional  
Fashionable



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# BEST CHOICE FOR ENVIRONMENT FRIENDLY NYLON FILAMENT



*FormoColor*®

## WATERLESS DYEING WITH EXCELLENT COLOR FASTNESS

Reduces resource consumption and minimizes CO<sub>2</sub> emissions.



*FormoEco*®

**Pre-Consumer  
Nylon Filament**  
(Made of recycled fiber  
and textile)

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**Post-Consumer  
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sea waste like wasted  
cable, box net  
and purse seine)

## 100% RECYCLED PRE & POST-CONSUMER NYLON FILAMENT

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## 編者的話

### 臺灣環保紡織品結合流行與機能

#### 致力開創美好未來生活

臺灣紡織業歷經60餘年的發展，循序漸進地整合供應鏈體系有成，進而建立生態保護、節省能源與資源的價值創新商業模式，並且以生產對環境友善之機能性紡織品在全球市場領先群倫。為協助國際專業買家瞭解臺灣紡織業者長期致力於環保領域的發展成效與競爭優勢，媒合買賣雙方找到優質合作夥伴，紡拓會特別出版「臺灣環保紡織品精選專刊」並建置網站，彙集臺灣環保紡織品發展現況及供應商資訊。

臺灣紡織產業不斷地研發與創新，每年每季都有創新的環保紡織品，將生活美學、高科技、環保與創新機能完美結合，賦予紡織品新的定義。鑒於全球紡織產業對於環保紡織品並無明確定義，本會率先依照環保紡織品的精神、功能、技術、服務概分為六大環保產品與服務領域：環境友善紡織品、節能減碳紡織品、無毒或天然有機紡織品、循環再生紡織品、綠色製程紡織品、環保檢測服務。盼望能兼顧環保永續與社會安全責任，善用物質特性，化腐朽為神奇。

臺灣紡織業以驚人的豐沛創新能力，創造生活上的無限可能，致力開創未來美好生活。

今日環保紡織品在消費市場已成為一股不可抗拒的綠色浪潮，採用環保紡織品已成為全球通路暨品牌商履行企業社會責任的具體表現。紡拓會多年來致力於推廣環保紡織品，希望藉由產業轉型來使臺灣環保紡織品成為繼機能性紡織品後，另一個領先各國紡織產業的發展主流。





# Editor's Notes

## Taiwan Eco-Textiles: a Marriage of Fashion plus Function

*Green innovation makes our life better!*

---

Sustainable products are an integral part of the green consumerism as well as a key element to become a successful business in today's very competitive global textile market. International brands, retailers and manufacturers are taking long-term plans and actions to source and produce textiles that have the least impact on the environment and are made in a socially responsible manner. The Taiwan Textile Federation(TTF) has been working in promoting Taiwan's eco textiles for some time in order to establish the island's leading position in the eco textile market after the successful precedent in the area of functional textiles.

After more than 60 years of development, Taiwan's textile industry has evolved from a mass production textile supplier to a textile innovator equipped with a comprehensive yet integrated value chain. While traditional textiles still have an important share in Taiwan's textile output, the extraordinary performance achieved by local enterprises in the field of eco and multifunctional textiles has redefined Taiwan's status in the global textile marketplace.

The core competencies of Taiwan's textile industry lie in its R&D, technology and innovation. The industry is constantly introducing its new eco textile developments which combine high-tech, ecology, function and life aesthetics to give new definition to modern textiles.

The annual publication of Taiwan Eco Textiles serves is a compilation of the industry's achievement in eco textiles for the past year. It serves as a valuable tool for those who are looking for reliable and determined textile business partners. More information on eco textiles in Taiwan can be found at [eco.textiles.org.tw](http://eco.textiles.org.tw)

We truly believe that the abundant innovation of Taiwan's textile industry can contribute to our environment and ameliorate our daily life!

## **Taiwan: The Best Sourcing Center for Functional + Eco Textiles**

Further to functionality, eco friendliness is now a textile DNA for Taiwan's textile industry. Whether it's material, manufacture process, technology, product or environment, our green-minded industrialists are working hard to make Taiwan the best source for eco and functional textiles.

### **Eco-friendly Textiles**

Textiles using materials made from recycled waste such as post consumer plastic bottles and ocean waste and recycled biomass such as wood, leaves and food waste. Also including biodegradable textiles which impose no burden to the environment.

### **Energy-saving and Carbon-reducing Textiles**

Textiles appealing to the reduction of water/carbon footprint and energy consumption, e.g., textiles with functions like thermal, cooling and blood circulation enhancing.

### **Organic / Non-toxic Textiles**

Textiles containing no environmental hormones; toxic-free and heavy metal free textiles; organic textiles; medical textiles.

### **Circular Textiles**

Textiles using recycled post consumer textiles as materials and produced by way of reengineering, redesigning or redefining in order to drive resource efficiency, cut waste and prevent environmental pollution.

### **Green Processing**

Textiles made by adopting a green process such as waterless dyeing, solution dyeing, normal pressure dyeing, etc.; or made via a production process with stricter than regular waste emission standards; or made in green/eco-labelled factories.

### **Textile Testing and Certification Services**

Companies/organizations offering services in eco-labelling and certification, environmental testing, standards setting, etc.



## 臺灣—最佳環保與機能性紡織品採購中心

臺灣具備環保紡織品的高度發展潛力，業者落實環保從根本做起，不僅重視產品源頭符合綠色設計、導入環保製程，並將環保思維納入企業文化，為企業注入綠色 DNA，堅持創新開發環保與機能兼具的多元紡織品。

### 環境友善紡織品

產品原料來自回收廢棄物材料(如寶特瓶、海洋廢棄物等)、生質環保材料(如木料、樹葉、廚餘等)，或產品強調可自然分解、不造成環境負擔。

### 節能減碳紡織品

產品訴求使用時能夠減少水或碳足跡、能源損耗，如：發熱、保暖、涼感、促進血液循環等。

### 無毒或天然有機紡織品

產品訴求不含毒性、重金屬、環境賀爾蒙，或產品本身為有機紡品、素材，或為醫療健康用紡織品。

### 循環再生紡織品

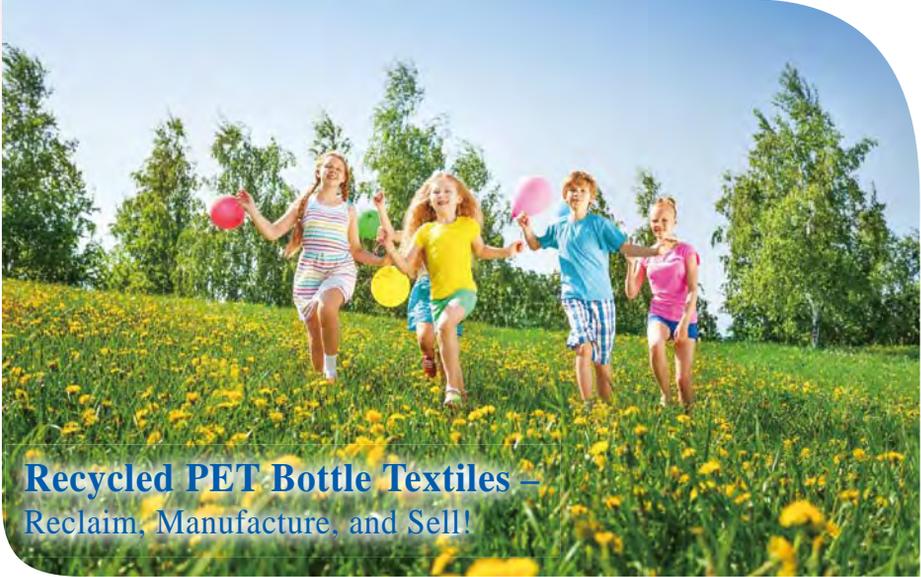
特別針對回收消費後的紡織製品，以重新製造、重新設計、重新定義(Reengineering/Redesign/Redefine)等方式再生利用，促進更好的資源使用效率、消滅廢棄物、延長紡織品使用壽命及避免汙染自然環境。

### 綠色製程紡織品

產品採用無水染色、原液染色、常壓染色等綠色製程，或製程中汙染排放採用比常規更嚴格的標準、使用綠色節能工廠等。

### 環保檢測服務

企業從事或提供標章驗證、環境檢測、標準制定相關等服務。



**Recycled PET Bottle Textiles –  
Reclaim, Manufacture, and Sell!**

**寶特瓶回收再生紡織品—  
回收、生產、銷售系統最完整**

The journey where drinking water bottles turn into a beautiful dress starts from the recycle bin around the corner of your neighborhood. Once the bottles are collected and then crushed, they will be made into staple fibers for spinning or into filament yarns for weaving, and then are ready for end-product applications. The production of recycled PET bottle textiles in Taiwan benefits from a thorough reclamation scheme. Consumers are encouraged to recollect used bottles. About 90,000 tons of PET bottles are reclaimed every year in Taiwan, equivalent to 4.5 billion drinking water bottles (bottle volume: 600 ml). per year.

The production and application of recycled PET bottle polyester fibers are optimized with the upstream spinning technologies for functionality, micronization and compound effects, and the downstream finishing technologies of weaving, dyeing, coating and lamination. Taiwan's position as the most reliable source for functional and ecological textiles was further proved at various international sports events such as the 2018 FIFA World Cup Russia where many teams wore jerseys made from recycled PET bottle textiles developed by Taiwanese textile companies.



## Recycled Nylon Textiles – Reserve & Recover Resources!

### 尼龍回收再生紡織品—資源再利用

Threads and shreds from a textile factory are more valuable than you think. Through a process of sorting, screening, crushing, extruding, chipping and spinning, these wastes can be transformed into clothing, home and industrial textiles.

Taiwan-made nylon textiles are renowned for their “value for money” quality, an advantage now extended to recycled nylon textiles. With their advanced development in recycled nylon production technology, Formosa Chemicals & Fibre, Honmyue, and Toung Loong substantially help reserve and recover resources for the planet.



## Cellulosic Fibers – from Nature, Back to Nature

### 纖維素纖維—來自大自然的環保原料

Plant fibers such as cotton, linen, bamboo and pineapple leaves, seaweed and fibers such as rayon, Modal and Tencel, of which the materials are derived from plant fibers, are biodegradable cellulosic fibers. They do not generate any negative impact on environment when burned and are thus classified as typical eco fibers.

In the category of cellulosic textiles, Formosa Chemicals & Fibre, Formosa Taffeta, Acelon and Fabrix Plus have successfully developed various high-end fibers, yarns and fabrics using local eco materials.



## **Solution Dyed Polyester Yarn – a Best Choice for Water Saving Textiles**

### **原液染色聚酯纖維—節水減碳的最佳選擇**

Among the whole production process of textile industry, the dyeing sector usually plays an important role in creating special effect for and adding value to products, but is also recognized as the most environmentally unfriendly part due to the huge consumption of water and chemicals. The production process of solution dyed polyester yarn is in line with the concept of “design for environment”. There is no need to go through any dyeing process once the weaving is done, which can therefore cut down water and energy consumption as well as effluents and waste gas generation by 70~82%.

Green Theme International is a company with a mission. They invent, commercialize and sell water free textile technology to create the best performing fabrics and to eliminate water pollution. their first product provides the most effective rain protection on the market without using or polluting any water.



## **SAYA Rscuw Project - Closing the Loop at the Source, with SAYA Rscuw Fiber**

### **從餘到有—SAYA織物回收再生計劃**

- Brands and consumers continue to promote a circular economy. SAYA is also committed to finding a solution to provide more sustainable products in recent years. The Ellen MacArthur Foundation survey pointed out: "The global textile recycling rate is about 15%, and the remaining 85% are treated as waste, causing serious environmental harm." To provide solutions to the industrial waste problem shrouding our industry, SAYA, a subsidiary brand of Nan Ya launched SAYA Rscuw Project.

Rscuw stands for Recycled Scrap and Cutting Waste. SAYA Rscuw Fibers consist of 3 types of recycled components. Garment cutting scrap, overstock fabric, waste yarn, and post-consumer PET bottles, using key decolorization technology to create new recycling possibilities for what would typically be discarded. We aim to continuously increase the percentage of garment and overstock waste as well as the types of blended materials and mechanical stretch for a more inclusive solution. We don't shy away from more challenging endeavors as we seek to redefine what's possible in textile renewal.



## Ecological Polypropylene Fiber

### 聚丙烯纖維—符合生態環保訴求

Polypropylene(PP) fiber is a polymer made up of carbon and hydrogen molecules. It is biodegradable with very low environmental impact, and meets the standards on environmental safety and hazardous content.

Traditionally the fiber is colored by way of solution dyeing, which is environmentally friendly in terms of saving energy and reducing carbon dioxide emission.

Honmyue has introduced a new-generation dyeing method by using disperse dyes on PP textiles. The PP fiber not only can be dyed in relatively low temperature but also allows end products to keep multiple functions.



## Normal Pressure Dyeable Polyester Fiber – Environment Matters!

### 常壓染色紡織品—節能減碳高手

The molecules of a polyester polymer are strongly bound together. It requires high temperature and pressure to saturate the fibers with dye solutions. The great thing about normal pressure dyeable polyester fiber is that during the coloration, the dyeing temperature can be brought down to 95~100°C without compromising color quality.

While the lowered dyeing temperature saves our environment from heavy use of heating energy, manufacturers at the same time can benefit from the saving on cooling time and dyeing cost. Major suppliers of this eco fiber in Taiwan include Nan Ya Plastics, Honmyue, Far Eastern New Century and Formosa Taffeta.



## **Solvent Spun Fiber – the Most Eco-minded Manmade Fiber**

### **溶劑可回收纖維—符合生態平衡原則**

The main ingredient of solvent spun fiber is cellulose, which is derived from woods. Up to 99.5% of solvents used during the fiber manufacturing process are recoverable and reusable, and the finished products are naturally biodegradable. What's more, less water and energy are used in the manufacture. All these environmentally sustainable characteristics win this kind of fiber a name as the most eco-minded manmade fiber in the last 50 years. Formosa Taffeta is a major supplier of eco textiles made of this kind of fiber in Taiwan.



## **Biodegradable Textiles – Sustainable Textiles for the Earth**

### **可分解紡織品—地球永續發展**

Biodegradable materials open a new window for the textile industry with environmental and business sustainability in mind. Biodegradable materials cause almost zero environmental impact even before and after their product lifecycle, making them a perfect example of green textiles.

APEXA<sup>®</sup> is a biodegradable polyester from DuPont. Formosa Taffeta and Nan Ya Plastics are using this material to make eco-friendly textiles.



## Heavy Metal Free Polyester Fiber – Safety Guarantee

### 無重金屬聚酯纖維—安全有保障

In the process of producing polyester, catalysts are often added to reduce the time required for polymerization in order to significantly increase the efficiency. The most common catalyst is a heavy metal called antimony (Sb). The European Union has stipulated in its legislation that only fabrics with an antimony content less than 30ppm are qualified for eco labels.

Heavy metal free polyester fiber shares similar properties to regular polyester fiber; moreover, it does not have the unfavorable yellowish problem which regular polyester fiber using Sb-free catalysts usually has. It can be applied to various textile products and PET bottles, and can also be recycled and reprocessed.

In Taiwan, major providers of heavy metal free polyester textiles include Nan Ya Plastics for filament yarn, Four Elements for spun yarn, Formosa Taffeta and Far Eastern New Century for fabrics, and Atics for zippers.



## **Bio-based Textiles (Bio-PET and Sorona<sup>®</sup>) – Reducing Petrol Consumption and CO<sub>2</sub> Emission**

### **生質環保紡織產品—有效減少石油資源消耗與二氧化碳排放**

Though still a petroleum-based material, about 30% of bio textile's composition is plant-based, effectively helping reduce the consumption of fossil energy resources. The most commonly-known bio textiles are Bio-PET and Sorona<sup>®</sup>. Bio-PET is an innovative fiber from Nan Ya Plastics. Different from the traditional PET fiber production, the material EG used to make Bio-PET fiber is from natural renewable resources, successfully reducing the dependence on petrol and effectively lowering 25% of carbon emissions.

Sorona<sup>®</sup> is a breakthrough made by DuPont in renewably sourced materials for textiles. With 37% of its basic raw material drawn from natural sugar, the production process of Sorona<sup>®</sup> reduces 30% of energy consumption and 63% of CO<sub>2</sub> emission compared with that of nylon chips, making it an ideal choice for eco textiles.

Nan Ya Plastics, Toung Loong, Far Eastern New Century and Formosa Chemicals & Fibre, among others, are the leading producers of bio-based textiles in Taiwan.



## **Instant Cooling Fiber – Feel Cool in the Summer**

### **散熱涼爽性纖維—夏天涼爽**

The performance of instant cooling textiles comes from the mineral compound powders which possess the properties of slow heating and quick cooling. The fibers with mineral powders added help wearers drive out body heat and have a comfy chilling feel.

When wearers are in instant cooling clothing, A/C temperature setting can be raised by 2°C, which helps save energy and cut carbon footprint.

Toung Loong, Da.Ai, Formosa Chemicals & Fibre, Formosa Taffeta, Four Elements, Nan Ya Plastics and GAC are all innovators in this sector.



## Organic Textiles – It's Green, It's In!

### 有機紡織品—符合綠色潮流

Organic cotton refers to the cotton cultivated on fields over 3 years free from any use of pesticides and chemical fertilizers. No insecticides, herbicides and defoliators are allowed in the growth of organic cotton. It is one of the best material options for responsible brands and enterprises to realize their commitment to protect our planet.

The organic cotton yarns made by Formosa Chemicals & Fibre, Formosa Taffeta and Far Eastern New Century have passed certification from international professional bodies such as IMO of Switzerland and Control Union of the Netherlands.



## Cotton and Wool – Natural and Sustainable

### 棉花與羊毛—天然和永續

Cotton and Wool are natural, renewable and biodegradable. Cotton has been used to dress and protect mankind for at least 7,000 years. Today cotton textile is a global industry. After 30 years of efforts and thanks to the new agritechology, American cotton farmers are now able to increase water-use efficiency by 80% and decrease energy consumption and pesticides use by 31% and 50% respectively.

To ensure people can continue to reap cotton's natural benefits now and in the future, U.S. cotton industry is committed to producing cotton in the most sustainable manner possible, taking into account the economy, environment and social responsibility.

80% of the global merino wool used in apparel is produced in Australia, where the production for the year 2017/18 reached 338,000 tons. The properties of Australian Merino wool plus its eco friendliness make it a most suitable apparel material for eco-conscious consumers. And the Merino Wool system introduced by The Woolmark Company further provides a series of functional fabric collections for sports activewear.



## Charcoal Fiber – Keep Warm in the Winter

### 炭類纖維—冬天保暖

Once through fire and flame, bamboos and coconut shells are transformed into porous charcoals. The charcoals are further grounded into nano-sized powders, mixed well with polymers and then undergo a series of fabrication process—from spinning, false twisting to weaving—before ready to be made into a variety of textile products. Formosa Chemicals & Fibre, LeaLea/Li Peng, Nan Ya Plastics and Acelon are Taiwan’s major manufacturers of charcoal fiber. Nan Ya Plastics transforms coffee grounds via carbonization process into coffee fibers for a wide range of applications. Formosa Taffeta has launched collections of bamboo charcoal and coconut shell charcoal fabrics. Atics uses bamboo charcoal fiber to make zippers and accessories.

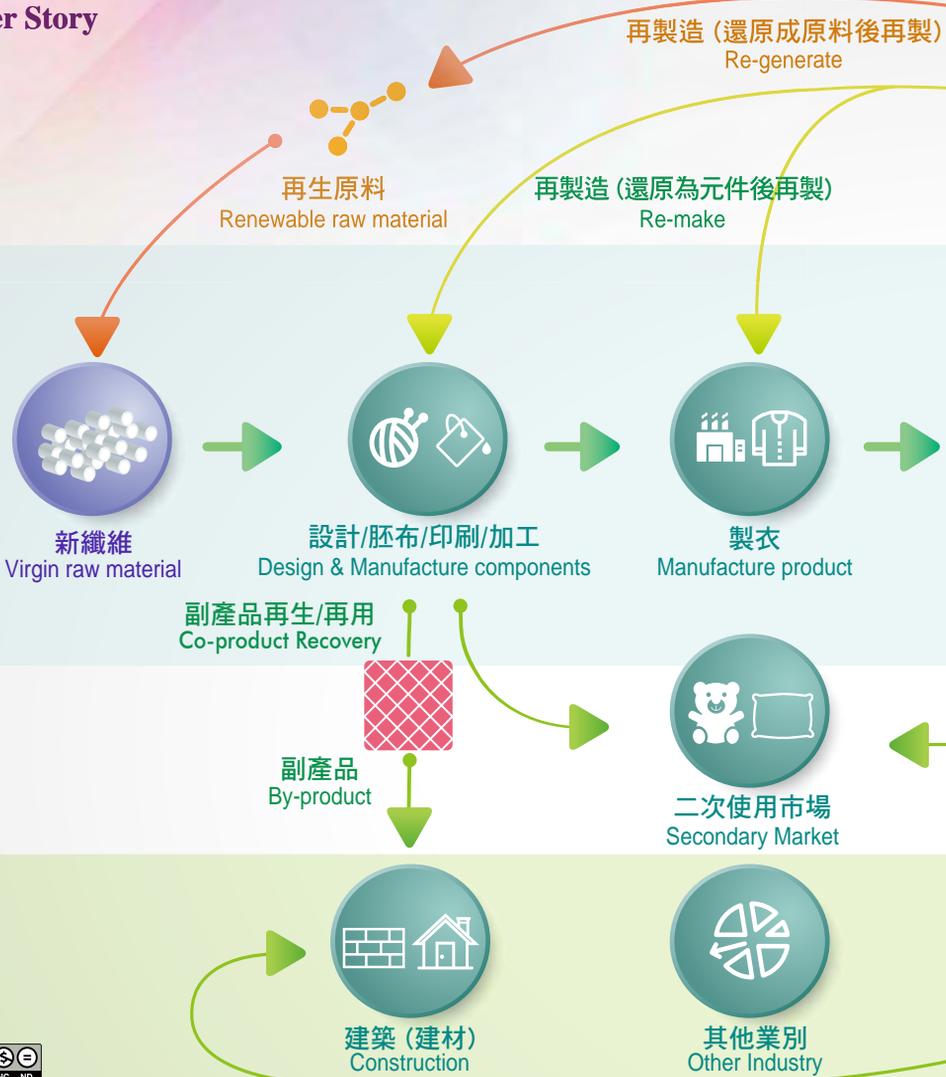


## Get Certified – a Ticket to the Global Market

### 驗證標章—進入市場的必要工具

Textile industry around the world has a reorientation of thinking about the environment. When ecology finally does not have to come behind economy, many textile enterprises have their green policy and green actions reinforced as a marketing force for elevating corporate/brand image and increasing sales performance as they cope with the inconvenient truth of global warming.

While the world is going green, eco textile labels and certificates issued by internationally authoritative certifying bodies have become not only the quality insurance of products but quite often the minimum criteria to enter major markets like Japan, USA and EU. As a major textile supplier in the world, over 100 textile and apparel companies in Taiwan have received international eco labels and certificates from Oeko-Tex<sup>®</sup>, bluesign<sup>®</sup>, GOTS and Organic Exchange, to name a few. Testex Swiss, Bureau Veritas, Intertek, SGS and Taiwan Functional Textiles (TFT) are well-known certifiers in Taiwan to provide testing and certification services.



The increasing signs of resource depletion and the impact of wastes to our planet has enabled countries like Holland, Germany, Luxemburg, UK, Belgium, Finland and Japan to declare their commitment towards a circular economy. While the global industry is progressing to reach the new criteria of “ high performance, low consumption, toxic free and zero waste”, Taiwan’s textile industry is also facing the same challenge. In order to meet both business and social demands, developing and innovating recycling technology to close the circle on textiles will be a constant goal as well as a social responsibility for Taiwan’s textile industry to strive for.

# 循環紡織價值鏈

## Circular Textile Value Chain

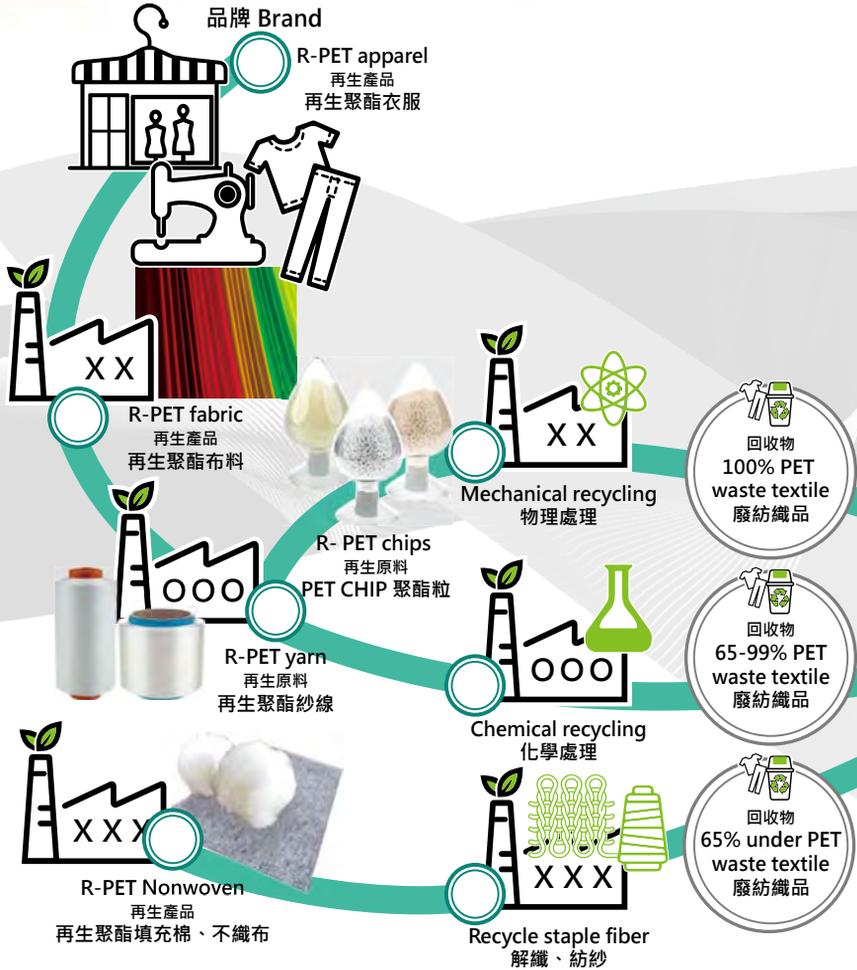


Reference: R2Pi Research report, BMI as one of the consortium partners to conduct this research **BMI** 方略

Taiwanese textile companies are now learning, sharing and exchanging their concepts, experiences and technologies in green and circular textiles to reengineer, redesign and redefine the textile product chain. The ultimate goal is to achieve a circular supply chain by collecting post consumer textiles and then recycling and regenerating into new materials as input to make textiles. This kind of new business model can optimize resource efficiency, cut waste and prevent earth pollution. Further development in this respect can boost textile R&D energy, drive the transformation of the industry and even create new business potential while moving towards the purpose of environmental protection, waste reduction and resource circulation.

## 材質分選技術推動紡織循環經濟應用情境

The scenario of material screening technology for Transform to Circular Economy Textile



The Co-Innovation Lab which looks to the future of circular textile in Taiwan has joined forces with the Taiwan Circular Textile Initiative to play a guiding role in Taiwan's textile and related industries to focus on post-consumer textile waste and based on the premise that by redesigning the recycling process (collecting-sorting-reprocessing).



### Consumer

One of Materials source (Used clothing)

消費者不使用的舊衣物

目前沒有去化管道的廢紡織品



### Sorting

人工粗選將

運動類衣物挑出來



Operate site : Collectors

作業場域：○○ (回收商)

### Set up the selection of materials

設定材質分選種類

(Polyester)

### Identify the ratio of PET

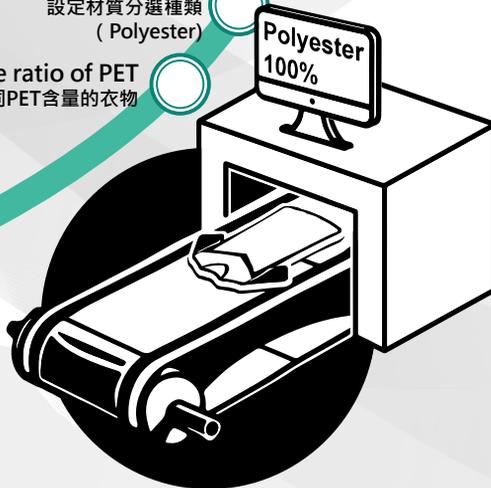
機器辨識不同PET含量的衣物



### Screening

人工分流

(一次一件)



Checking and reviewing major issues, we found that the keys to turning waste into resources lie in the sorting of textile materials, the development of sorting technologies, and the construction of waste processing and treatment sites.

The R&D team in Lab has developed the sorting technologies to quickly and effectively assort used fabrics by material, and develop the scenario of the circular economy textile system.



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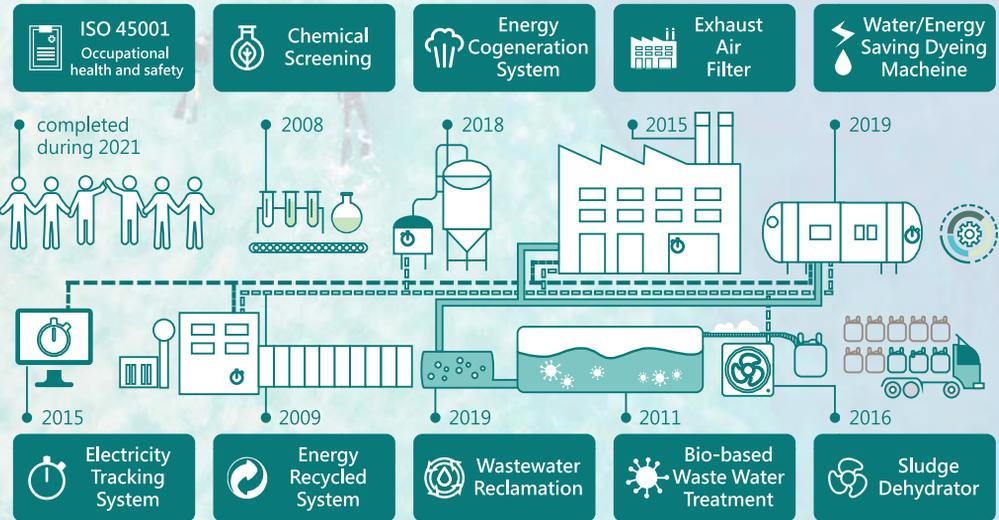
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## Eco Process in Fabric Manufacturing



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# Roadmap To Change

We guide value chains towards the use of safer chemistry for a cleaner planet, and a brighter future.

## Input



Managing chemical inputs is key to safer products, cleaner water and fresher air. The input Focus Area is the cornerstone of the work we do.

### Key Solutions:

- ZDHC MRSL V2.0
- ZDHC MRSL Industry Standard Implementation Approach
- Performance InCheck Guidelines
- ZDHC MRSL Conformance Guidance

## Process



Good procedures and best practices are vital to reduce the environmental impact of production. This Focus Area helps organisations to put these elements in place.

### Key Solutions:

- ZDHC Chemical Management System (CMS) Framework
- ZDHC CMS Technical Industry Guide (TIG)
- Chemical Inventory List
- ZDHC MMCF Guidelines

## Output



Outputs prove the effectiveness of safer inputs and processes. It does so by measuring indicators like wastewater, sludge and air quality.

### Key Solutions:

- ZDHC Wastewater Guidelines
- ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP)
- Wastewater Treatment Technologies
- Wastewater Treatment System Operator Minimum Qualifications Guidelines
- Leather Wastewater Guidelines Addendum
- ZDHC MMCF Guidelines

IMPLEMENTATION



As a ZDHC implementation partner, the Implementation HUB supports organisations all over the world, by offering the solutions, training and expertise they need to put good chemical management in motion.



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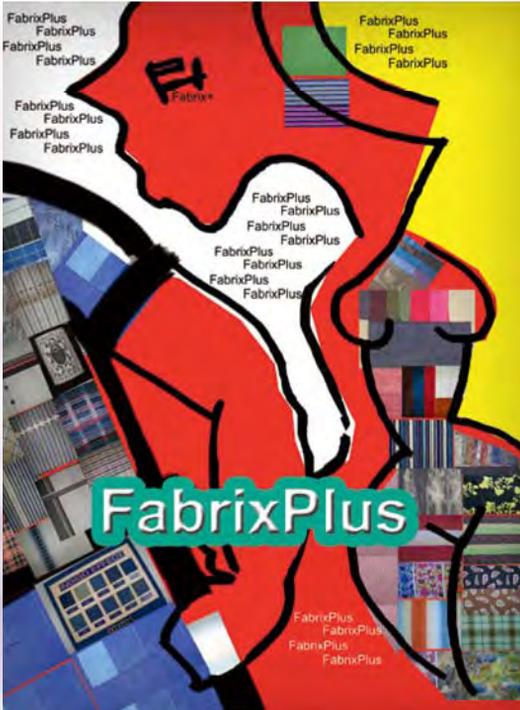
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For further information, please contact with us by e-mail at

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## Application

GREEN RIVER<sup>®</sup>  
Comfy Blanket



## High Quality

- \* GREEN RIVER<sup>®</sup> meets the highest level of textile standard of safety & color fastness.
- \* All recycled materials of GREEN RIVER<sup>®</sup> have GRS certificates.

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- 配件測試
- 機能性紡織品測試
- 紡織環保化學品測試
- 家飾紡織品測試
- 測試訓練課程

### 鞋類製品實驗室

- 有害物質測試
- 安全鞋測試
- 黏合測試
- 配件強度
- 耐屈折性
- 耐磨性
- 防滑性
- 工廠審核
- 技術顧問與培訓



請立即與我們聯絡！為您的產品品質加分！台灣檢驗科技股份有限公司SGS Taiwan Ltd.

#### ■ 紡織製品實驗室

Kurt Wu E-mail: kurt.wu@sgs.com  
 電話：02-2299 3279 EXT. 5220  
 地址：新北市五股區(新北產業園區)五權路31號

#### ■ 鞋類製品實驗室

Janny Lin E-mail: janny.lin@sgs.com  
 Max Chang E-mail: max-tw.chang@sgs.com  
 電話：07-3012 121 EXT. 4102  
 地址：高雄市楠梓區61號  
 台中市西屯區工業十四路9號

**FIBER FOR FUTURE  
 SIX ELEMENTS  
 FIVE METAL**

**anti-bacterial  
 mildew proof  
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 sustainable product  
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**FAX: +886-4-7612289 http://www.yhm.com.tw**



**Antimicrobial Finished Product**  
 (Inhibits the growth of bacteria on textiles)  
 Reference standard:  
**ISO 20743**  
 No K126A

Certified by JTETC  
(Japan Textile Evaluation Technology Council)



**Antimicrobial Finished Product**  
 (Inhibits the growth of bacteria on textiles)  
 Reference standard:  
**ISO 20743**  
 No K126A

Certified by JTETC  
(Japan Textile Evaluation Technology Council)





Taiwan Functional Textiles  
台灣機能性紡織品



# The Best Source For TAIWAN FUNCTIONAL TEXTILES

## Certification System

*A bridge for global functional textile world*

Taiwan Functional Textiles have been equated to premium quality. In general, the grades of functional textile are tested by the equitable laboratory according to specified requirements by the certification committee for functional and technical textiles. Meanwhile, buyers and consumers could be sure of the quality through certification and certified tags.

TFT certification has gone into the 20th year and is moving towards becoming a bridge to global functional textiles for quality assurance.

台灣機能性紡織品已成為國際品牌買主對機能性紡織品品質信賴的保證；根據驗證評議委員會嚴格制定的標準，委由國際認證的實驗室進行檢測，經台灣紡拓會進行等級驗證，針對通過驗證產品頒發證書及發放產品吊牌，為通過機能性紡織產品背書。

目前TFT驗證服務與市場行銷推廣已邁入第20年，未來發展目標將以成為“全球機能性紡織品品質保證的驗證品牌邁進”。

Quality

Safe

Comfortably

Healthy



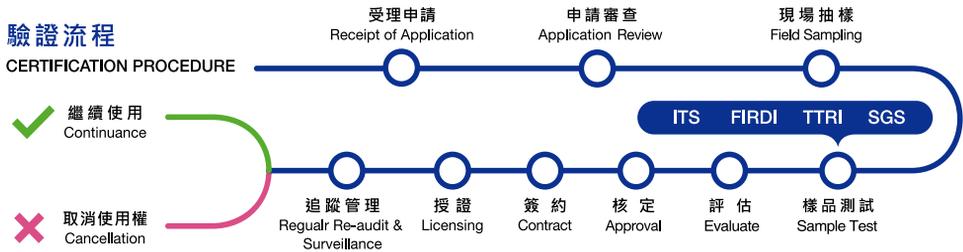


## 驗證流程

### Procedure of Taiwan Functional Textiles

#### 驗證流程

CERTIFICATION PROCEDURE



The Best Source For

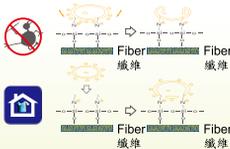
# TAIWAN FUNCTIONAL TEXTILES





## FTTS-FA-001

### Antibacterial Textiles for General Use



#### PERFORMANCE SPECIFICATION

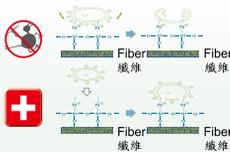
Type	Grade	Classification	Washing cycles	percent reduction of bacterial, R
I	AAAAA	Excellent	50 Washing	$R \geq 99.9$
	AAA	Good	50 Washing	$99 \leq R < 99.9$
II	AAAAA	Excellent	20 Washing	$R \geq 99.9$
	AAA	Good	20 Washing	$99 \leq R < 99.9$
III	AAAAA	Excellent	No washing required (disposable)	$R \geq 99.9$
	AAA	Good	No washing required (disposable)	$99 \leq R < 99.9$

#### CERTIFIED SUPPLIERS

- Nan Pao Resins Chemical Co., Ltd.

## FTTS-FA-002

### Antibacterial Textiles for Medical Use



#### PERFORMANCE SPECIFICATION

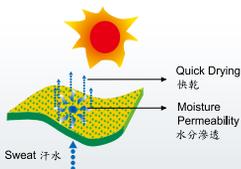
Type	Grade	Classification	Washing cycles	percent reduction of bacterial, R
I	AAAAA	Excellent	100 Washing	$R \geq 99.9$
	AAA	Good	100 Washing	$99 \leq R < 99.9$
II	AAAAA	Excellent	No washing required (disposable)	$R \geq 99.9$
	AAA	Good	No washing required (disposable)	$99 \leq R < 99.9$

#### CERTIFIED SUPPLIERS

- Gauss
- Muchuan Global International Co., Ltd.

## FTTS-FA-004

### Moisture Transferring and Quick Drying Textiles

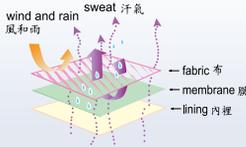


#### PERFORMANCE SPECIFICATION

Type	Diffusion ability	Drying ability	Absorbency speed (Dropping)	Absorbency speed (Byreck)	Classification
I	5	5	Pass	$X \geq 130\text{mm}$	Excellent
II	4	4	Pass	$130\text{mm} > X \geq 100\text{mm}$	Very Good
III	3	3	Pass	$100\text{mm} > X \geq 80\text{mm}$	Good

#### CERTIFIED SUPPLIERS

- Lee Ven Industrial Co., Ltd.
- S.B.Motif Co., Ltd.
- Yea Chin Co., Ltd.
- Excelassoc Co., Ltd.
- Sain Sou Co., Ltd.
- TECHLON FIBRE, CO., Ltd.
- Li Dai Industrial Co., Ltd.
- YEU-LI INTERNATIONAL DESIGN CO., LTD.
- KUSO TOP International Co, Ltd.
- Fashion Garment Ind.Co., Ltd.
- Top Line Textile Co., Ltd.

**FTTS-FA-005****Water-Vapor Permeable and Liquid-Water Impermeable Textiles****PERFORMANCE SPECIFICATION**

Hydrostatic Pressure (mmH <sub>2</sub> O)	Grade	Classification
15000 $\leq$ Wp	5	Excellent
8000 $\leq$ Wp < 15000	4	Very good
4000 $\leq$ Wp < 8000	3	Good
2000 $\leq$ Wp < 4000	2	Moderate
300 $\leq$ Wp < 2000	1	Fair

**CERTIFIED SUPPLIERS**

- Lee Ven Industrial Co., Ltd.
- Excelassoc Co., Ltd.
- Li Dai Industrial Co., Ltd.

**FTTS-FA-008****Ultraviolet Protective Textiles****PERFORMANCE SPECIFICATION**

UPF	Erythral ultraviolet penetration rate (%)	Grade	Classification
40 - 50 · 50+	$\leq$ 2.5	A	Excellent
25 - 39	2.6 ~ 4.1	B	Very Good
15 - 24	6.7 ~ 4.2	C	Good

**CERTIFIED SUPPLIERS**

- Lee Ven Industrial Co., Ltd.
- Hung Yi Clothing Enterprise Ltd.
- Yufeng Internaional Company
- Everlight Chemical Industrial Corp.,
- Yi Bao originality life accessory Co., Ltd.

**FTTS-FA-009****Antistatic Textiles**

FTTS-FA-009 抗靜電紡織品  
Antistatic Textiles

**PERFORMANCE SPECIFICATION****Grade And Classification Based On This Specification**

Frictional charge (V)	Grade	Classification
Knitted / Woven warp and weft $V < 100$	3	Excellent
$100 \leq V < 500$	2	Good
$500 \leq V < 1000$	1	Fair
Surface resistance ( $\Omega$ )	Grade	Classification
$1 \times 10^4 \leq \Omega < 1 \times 10^6$	3	Excellent
$1 \times 10^6 \leq \Omega < 1 \times 10^9$	2	Good
$1 \times 10^9 \leq \Omega < 1 \times 10^{12}$	1	Fair
Decay time (Second)	Grade	Classification
$S < 0.01$	3	Excellent
$0.01 \leq S < 0.5$	2	Good
$0.5 \leq S < 2$	1	Fair

**General requirement for pretreatment**

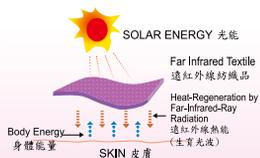
Item	General Requirement	Test Method
Washing Durability	tested in original state, after 20 washes, 50 washes (refer to note 1)	(A) woven, coated/laminated fabric and non-woven fabric: washed based on AATCC 135 (1) III (A)ii; knitted: washed based on AATCC 135 (2) III (A)ii (refer to note 2) (B) washed based on JIS L0217-103 (refer to note 2)

**CERTIFIED SUPPLIERS**

- Horng Jing Textile Co., Ltd.
- U.S.Beryl Enterprise Co., Ltd.

## FTTS-FA-010

### Far Infrared Textiles



### PERFORMANCE SPECIFICATION

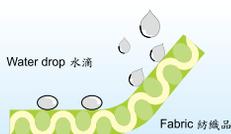
Evaluation	Qualification
Far Infrared Characteristics	<b>Far Infrared Spectral Emissivity:</b> The average emissivity of light waves with the wavelength of 2-22 $\mu$ m is not less than 0.80, as measured by Far-Infrared spectrophotometer.
	<b>Re-radiating Characteristics:</b> Difference in temperature between the test sample and reference sample is not less than + 0.5°C and the effective difference is better than the reliable limit of 95%
Temperature Characteristics	<b>Thermograph / Monitor Test:</b> Difference in average skin temperature of specific body part while wearing test sample as opposed to wearing reference sample is not less than +0.5°C.
Type	Scope of the requirements
A	Qualified standard by passing far infrared characteristics.
A+	Qualified standard by passing far infrared characteristics and temperature characteristics.

### CERTIFIED SUPPLIERS

- Lee Ven Industrial Co., Ltd.
- Shian Jia Meei Enterprise Co., Ltd.
- Yufeng Internaional Company
- AQSTAR HEALTH PRODUCTS INC.
- SING LONG TOWEL FACTORY CO., LTD.
- Fashion Garment Ind.Co., Ltd.

## FTTS-FA-011

### Water Repellent Textiles



### PERFORMANCE SPECIFICATION

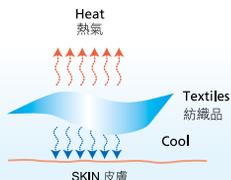
Type	Washing Condition			Usage Reference
	As Received	After 10 times washing	After 20 times washing	
I	Above 90	—	Above 80	Durable Water Repellency
II	Above 90	Above 80	—	Durable Water Repellency
III	Above 90	—	—	Normal Water Repellency

### CERTIFIED SUPPLIERS

- Chi Hsin Weaving Factory Co., Ltd.
- Excelassoc Co., Ltd.
- Honmyue Enterprise Co., Ltd.
- Asia Fit International Co., Ltd.
- Hi-tex Textile Co., Ltd.
- NAN YA PLASTICS CORPORATION
- Chung Ming Textiles Enterprise CO., Ltd.
- Li Peng Enterprise Co. Ltd.

## FTTS-FA-019

### Cool Feeling Textiles



### PERFORMANCE SPECIFICATION

Maximum heat loss per unit ( W/cm <sup>2</sup> )	
Knit	$\geq 0.130$
Weave	$\geq 0.170$
Item	Test method
Washing durability	Washed based on CNS15140 8B for knitted fabrics.
	Washed based on CNS15140 7B for woven fabrics.

### CERTIFIED SUPPLIERS

- Lee Ven Industrial Co., Ltd.
- Yea Chin Co., Ltd.
- AOYAMA Co., Ltd.
- Vision golf Co., Ltd.
- Fashion Garment Ind.Co., Ltd.
- GUANG QIAN Industrial Co., Ltd.

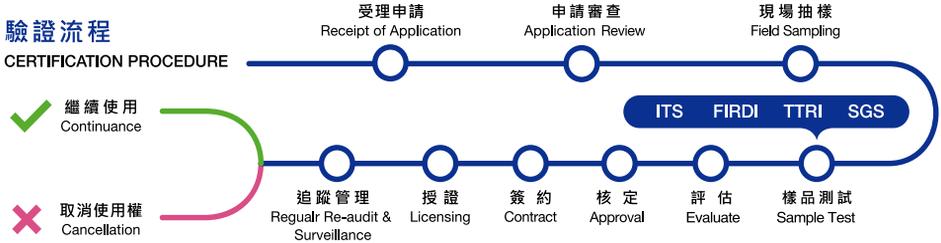


# 台灣機能性紡織品驗證

TAIWAN FUNCTIONAL TEXTILES CERTIFICATION

## 驗證流程

CERTIFICATION PROCEDURE



## 驗證項目 CERTIFICATION ITEM

<p><b>FTTS-FA-001</b> 一般用途抗菌加工紡織品 Antibacterial Textiles for General Use</p>	<p><b>FTTS-FA-002</b> 醫療用途抗菌加工紡織品 Antibacterial Textiles for Medical Use</p>	<p><b>FTTS-FA-003</b> 防電磁波紡織品 Electromagnetic Shielding Textiles</p>	<p><b>FTTS-FA-004</b> 吸濕排汗速乾紡織品 Moisture Transferring &amp; Quick Drying Textiles</p>	<p><b>FTTS-FA-005</b> 透濕防水紡織品 Water-Vapor Permeable &amp; Liquid-Water Impermeable Textiles</p>	<p><b>FTTS-FA-006</b> 防黴性紡織品 Antifungal Textiles</p>
<p><b>FTTS-FA-007</b> 防線紡織品 Wrinkle Free Textiles</p>	<p><b>FTTS-FA-008</b> 防紫外線紡織品 Ultraviolet Protective Textiles</p>	<p><b>FTTS-FA-009</b> 抗靜電紡織品 Antistatic Textiles</p>	<p><b>FTTS-FA-010</b> 遠紅外線紡織品 Far Infrared Textiles</p>	<p><b>FTTS-FA-011</b> 潑水紡織品 Water Repellent Textiles</p>	<p><b>FTTS-FA-012</b> 撥油紡織品 Oil Repellent Textiles</p>
<p><b>FTTS-FA-013</b> 易去污紡織品 Stain Release Textiles</p>	<p><b>FTTS-FA-015</b> 防焰紡織品 Flame-Resistant Textiles</p>	<p><b>FTTS-FA-016</b> 保暖性含炭填充纖維紡織品 Charcoal Contained Filler Fiber Textiles for Warmth Retention</p>	<p><b>FTTS-FA-017</b> 含炭填充材料消臭性紡織品 Deodorization for Charcoal Contained Filler Textiles</p>	<p><b>FTTS-FA-018</b> 消臭加工紡織品 Deodorized Textiles</p>	<p><b>FTTS-FA-019</b> 瞬間涼感紡織品 Cool Feeling Textiles</p>
<p><b>FTTS-FA-020</b> 吸濕排汗速乾多層 Liquid Moisture Management Properties of Textile Fabrics</p>	<p><b>FTTS-FA-023</b> 吸濕發熱紡織品 Generating Heat-Textiles by Moisture Absorption</p>	<p><b>FTTS-GA-024</b> 運動用自行車衣 Cycling Clothing</p>	<p><b>FTTS-GA-025</b> 慢跑服 Jogging Clothing</p>	<p><b>FTTS-GA-026</b> 節能衫 Specified Requirements of Energy-saving Clothing</p>	

## 驗證推廣

PROMOTION

通過驗證產品於全球國際紡織展覽中推廣。

Certification approved products will be promoted in international textile exhibitions.

## TAIWAN TEXTILE FEDERATION

TTF Building, 22 AiGuo East Road, Taipei 10092, Taiwan

台北市 10092 愛國東路22號 - 紡拓大樓

Tel: 886-2-2341-7251 分機 2358 劉專員、2362 張專員 Fax: 886-2-2357-0596

E-mail: selena\_liu@textiles.org.tw; ya\_ling@textiles.org.tw WebSite: https://tft.ftfapproved.org.tw



詳情可至官網查詢  
tft.ftfapproved.org.tw

# Taiwan Innovative Wool Textiles 2021

New Design & Innovation



*Fine & New Blend Yarn*

*New Techniques & Functionality Fabrics*

## New Products

Bamboo Charcoal Fiber  
Cashmere  
Extrafine Wool  
Merino Wool  
Microfiber  
Natural Stretch  
Solvent Spinning  
Super 80's and finer  
Super Wash Wool Top  
Winter-Gauze  
Wool Grease  
Colorful Down Apparel  
Bio-degradable Polyester  
PLA

## New Blends

Wool plus Lycra  
Wool/Bamboo  
Wool/Linen  
Wool/Metallic  
Wool/Silk  
Wool/Cotton  
Wool/Rayon  
Wool/Nylon  
Wool/Polyester  
W/N/R  
T/W  
Wool/PP  
Tencel®/Wool  
Modal®/Wool

## New Techniques

Burn Out  
Carbonized Wool  
Coated & Bonding  
Comfort and Elegance  
Crashed/Crinkle Finishing  
Felted/Balled Wool  
Laser Techniques  
Luxury & Technology  
Machine Washable  
Quilted/Embossed  
Stretch Flannels  
Tie & Dye  
Total Easy Care  
Transfer/Pigment Print

## New Functionality

Antibacterial  
Antifungal Textiles  
Antistatic  
Deodorization  
Electromagnetic Shielding  
Far Infrared  
Flame-Resistant  
Moisture Transferring and Quick Drying  
Oil Repellent  
Stain Release  
Ultraviolet Protective  
Water Repellent  
Water-Vapor Permeable and Liquid-Water Impermeable  
Wrinkle Free

## Member List

3C-TEX INTERNATIONAL CO., LTD

All Magic Sport Co., Ltd.

Anndywell Co., Ltd.

Carol Textile Co., Ltd.

Chia Her Industrial Co., Ltd.

Chuwa Wool Industry Co., (Taiwan) Ltd.

Creative Tech Textile Co., Ltd.

D.A.G. Co., Ltd.

Denwel Textile Co., Ltd.

DJIC Limited

E.Textint Corp.

GTM Corporation

Gemloom Textile Co., Ltd.

GOOD SHINE CO., LTD.

Handsetex Industrial Corp.

Jenn Shyang Textile Co., Ltd.

Kuon Tai Textile Co., Ltd.

Ming Ho Wool Industry Co., Ltd.

Protect Accessory Co., Ltd.

Reward Wool Industry Corporation

San Shing Spinning Co., Ltd.

Seaward Wool Textile Co., Ltd.

Sin Yo Textile Factory Co., Ltd.

Sunshune Textile Co., Ltd.

Tai Fu Textile Co., Ltd.

Tomlong Techstle Corp.

◆ 紡紗、織布染色及整理—貴作業廠  
Spinning, Weaving, Dye & Finishing Manufactory

◆ 梳毛紡紗廠  
Worsted Spinning Manufactory

## 佳和實業股份有限公司

Chia Her Industrial Co., Ltd.

負責人：翁茂鐘 董事長  
PRESIDENT: Maw-Jong Wong  
業務代表：翁特助 偉翔  
MANAGER: Chase Wong  
聯絡電話：886-2-25065151  
聯絡傳真：886-2-25065160  
主要產品：功能性羊毛、棉紗、合成纖維紗、混紡及純毛、戶外運動用品布  
PRODUCTS: Functional Wool - Worsted Yarn - Worsted Blended Yarn - All Wool & Blended - Fabric for Outdoor Sports.  
Email: services@chgtex.com  
<mailto:faxuser@mailhiwa.com.tw>  
Website: www.chgtex.com  
<http://www.hiwa.com.tw>



## 郡隆纖維股份有限公司

Gemloom Textile Co., Ltd.

負責人：林基福 董事長  
PRESIDENT: JIFU Lin  
TEL: 886-2-28756262  
FAX: 886-2-28756363  
主要產品：梳毛紗、AW混紡紗、織布紗、花式捻紗  
PRODUCTS: Worsted Yarn Blended Yarn Wool Weaving Yarn Fancy Yarn  
E-mail: lin@garden-square.net



## 勤益股份有限公司

GTM Corporation

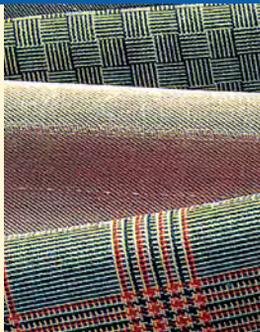
負責人：顧肇基 董事長  
PRESIDENT: George Gu  
業務代表：顧克基 協理  
VICE PRESIDENT: Kenneth Gu  
TEL: 886-2-27415000  
886-2-25523466  
FAX: 886-2-27765073  
主要產品：梳毛紗、梳毛布料、西服  
PRODUCTS: Worsted Yarn Worsted Blended Yarn Woolen/Worsted Fabric Suits  
E-mail: kengu@gtm.com.tw  
Website: www.gtm.com.tw



## 山象紡織股份有限公司

Sunshun Textile Co., Ltd.

負責人：陳輝耀 董事長  
PRESIDENT: Chen Huel Yau  
TEL: 886-2-25552349  
FAX: 886-2-25582448  
主要產品：羊毛紗、羊毛混紡紗  
PRODUCTS: Woollen Yarn Blended Yarn  
E-mail: ching.george@msa.hinet.net



## 信華毛紡股份有限公司

Seaward Wool Textile Co., Ltd.

負責人：簡茂男 董事長  
PRESIDENT: M. N. Chien  
業務代表：黃志揚 經理  
MANAGER: Eddy Huang  
TEL: 886-2-25312161  
FAX: 886-2-25362124  
主要產品：純羊毛紗、成衣、梳毛混紡紗、毛衣、純毛混紡紗、梳毛織品(男、女裝毛料)、紡毛織品(男、女裝毛料)  
PRODUCTS: Worsted Spun, Garments, Wool Sweater, Woollen Yarn, Worsted Fabric (Man's & Ladies), Woolen Fabric (Man's & Ladies)  
E-mail: seaward@ms21.hinet.net  
hungsir@seawardwool.com.tw



## 德鑫紡織有限公司

GOOD SHINE CO., LTD.

負責人：楊明達 董事長  
PRESIDENT: Jason Huang  
聯絡電話：886-2-8201-8099  
聯絡傳真：886-2-8201-8056  
主要產品：花式捻紗、純毛紗、合攪紗、混紡紗、亞克力紗、羊毛紗、麻棉紗  
PRODUCTS: Fancy yarn, fluff yarn yarn, blended yarn, ackri yarn, wool yarn, hemp yarn  
E-mail: yuki@goodshine.com.tw  
Website: www.goodshine.com.tw



## 三新紡織股份有限公司

San Shing Spinning Co., Ltd.

負責人：吳中堅 董事長  
PRESIDENT: C. G. Wu  
業務代表：吳中和 總經理  
Gen Manager: C. H. Wu  
TEL: 886-2-2531221  
FAX: 886-2-2536505  
主要產品：毛混紡紗、毛混紡織物、T/R混紡色紗、T/R格子布、聚縮加工絲  
PRODUCTS: Worsted Blended Yarn Worsted Blended Fabric T/R Check Fabric Polyester Texturized Yarn  
E-mail: robert@colortex.com.tw  
Website: www.colortex.com.tw



## 瑋霖有限公司

DJIC Limited

負責人：吳正忠 董事長  
PRESIDENT: Daniel Wu  
業務代表：張雅華  
CONTACT: Grace Chang  
TEL: 886-2-2516-4766  
FAX: 886-2-2516-4768  
主要產品：毛紡棉紡化纖針織布的染整、織造和印花  
PRODUCTS: wool/cotton/polyknit fabric for dyeing/printing/knitting  
E-mail: sale@djic.com.tw  
Website: www.djic.com.tw



## ◆ 紡毛紡紗廠

### Woolen Spinning Manufactory

#### 綱泰毛紡股份有限公司

Kuon Tai Textile Co., Ltd.

負責人: 吳正宗 董事長

PRESIDENT: J. T. Wu

業務代表: 吳曉玲 經理

MANAGER: Charlene H.L. Wu

TEL: 886(0)916737599

主要產品: 紡毛紗、混紡紗、毛毯、混紡織物、紡毛織物、針織紗、織布紗、點子紗

PRODUCTS: Woolen Hosiery Yarn, Woolen Blend Yarn, Woolen Blanket, Woolen Blend Fabric, Woolen Fabrics, Woolen Knitting Yarn, Woolen Weaving Yarn, Nep Yarn  
E-mail: charlenewu@symcointl.com



#### 中和羊毛工業股份有限公司

Chuwa Wool Industry Co., (Taiwan) Ltd.

負責人: 侯嘉騏 董事長

PRESIDENT: Michelle Hou

業務代表: 蔡紹華 協理

MANAGER: Francis Tsai

TEL: 886-2-27566777

FAX: 886-2-27531999

主要產品: 毛條、炭化毛、防縮毛條、防縮散毛

PRODUCTS: Wool Top Carbonized Wool Wool Grease Machine Washable Wool Top Machine Washable Loose Wool  
E-mail: michael.tzang@chuwa.com.tw  
Website: www.chuwa.com.tw



## ◆ 毛織布廠 Wool Weaving Manufactory

#### 泰福紡織股份有限公司

Tai Fu Textile Co., Ltd.

負責人: 陳順理 董事長

PRESIDENT: S. L. Chen

業務代表: 陳俊賢 總經理

GEN MANAGER: Chun-Hsien Chen

TEL: 886-6-2703331

FAX: 886-6-2703333

主要產品: 毛織布

PRODUCTS: Wool Fabric

E-mail: taifu.tex@msa.hinet.net



#### 明和羊毛股份有限公司

Ming Ho Wool Industry Co., Ltd.

負責人: 楊明達 董事長

PRESIDENT: Steve Yang

業務代表: 甘建民 Jason Gan

TEL: 886-3-4981968

FAX: 886-3-4989516

主要產品: 紡紗; 毛紗

PRODUCTS: Wool Top

E-mail: gan225896@kimo.com



## ◆ 功能性紡織品供應商 Functional Textile Suppliers

#### 駿賢企業股份有限公司

D.A.G. Co., Ltd.

負責人: 張大鈞 董事長

PRESIDENT: David Chang

TEL: 886-2-25551355

FAX: 886-2-25580067

主要產品: 男裝及女裝一精紡粗紡毛料及化纖混紡面料; 各種紗、布及其他紡織品

PRODUCTS: Worsted, Woolen And Synthetic Fabric For Men's And Ladies'

E-mail: dag.ckmaint@msa.hinet.net



## ◆ 原料廠 Raw Material Manufactory

#### 利華羊毛工業股份有限公司

Reward Wool Industry Corporation

負責人: 應柔爾 董事長

PRESIDENT: King Rosa Roueel

業務代表: 施耀堂 經理

GEN MANAGER: Terry Shih

TEL: 886-2-27811161

FAX: 886-2-27521193

主要產品: 毛條、炭化毛、防縮毛條、防縮散毛

PRODUCTS: Wool Top Carbonized Wool Wool Grease Machine Washable Wool Top Machine Washable Loose Wool  
E-mail: reward@reward.com.tw  
Website: www.reward.com.tw



#### 湯姆隆實業股份有限公司

Tomlong Techstle Corp.

負責人: 吳明顯 董事長

PRESIDENT: Vincent Wu

TEL: 886-4-23365615

FAX: 886-4-23365610

主要產品: 各種纖維紗類、紡織品、TPU 紡織品黏合業務

PRODUCTS: Fiber, Textile Fabrics, TPU Laminated Fabrics

E-mail: info@tomlong.tw

Website: www.tomlong.com.tw



**得維紡織股份有限公司**

Derwei Textile Co., Ltd.  
 負責人：陳金德 董事長  
 PRESIDENT : Chen Chin Te  
 TEL : 886-4-23505001  
 FAX : 886-4-23505005  
 主要產品：粘扣布、柔卡印花、旅行福用布、  
 嬰兒車織布、成衣用布、PET環保  
 紗、抗UV、吸濕排汗、防霉抗菌、  
 防火阻燃、功能性織布、襪布貼合  
 PRODUCTS : Velcro, Lycra Printed, Luggage Net,  
 Baby Cart Net, Garment Fabrics, Anti-UV, Wicking,  
 Anti-Bacterial, Flame Retardant, Functional  
 Fabrics, PVC, TPU, PEVE, EVA And Lamination...  
 E-mail : derwei@derweiltext.com.tw  
 derwei@ms34.hinet



**依田股份有限公司**

E.Textint Corp.  
 負責人：陳清榮 董事長  
 PRESIDENT : CL. Chen  
 業務代表：王月娥 經理  
 MANAGER : Y. L. Wang  
 TEL : 886-3-327-8155  
 FAX : 886-3-327-7027  
 主要產品：成衣紡織品用熱轉印標業製  
 造  
 PRODUCTS : Heat Transfers for  
 Garments & Textile etc.  
 E-mail : transale@textint.com.tw  
 Website : www.textint.com.tw



**翰新實業股份有限公司**  
 Handseltex Industrial Corp.

負責人：蔡錦芳 董事長  
 PRESIDENT : Teason Tsai  
 業務代表：吳彥欣 Jenny Wu  
 TEL : 886-2-25217356  
 FAX : 886-2-25211055  
 主要產品：針織布料買賣  
 PRODUCTS : Fancy Knits  
 E-mail : jenny@hst.com.tw  
 Website : www.hst.com.tw



**詠祥紡織股份有限公司**  
 Carol Textile Co., Ltd.

負責人：林壽山 董事長  
 PRESIDENT : Michael Lin  
 TEL : 886-2-25583730  
 FAX : 886-2-25593016  
 主要產品：各種針織品、紡織品、梭織品  
 等各種流行布料。  
 PRODUCTS : Jackets, outdoor-wear,  
 shirts, sportswear and  
 variety of Active-wear.  
 E-mail : sunny@caroltext.com  
 Website : www.caroltext.com



**鼎祐國際實業有限公司**  
 Protect Accessory Co., Ltd.

負責人：王金菊 董事長  
 PRESIDENT : 游政龍 Wayne  
 TEL : 886-2-29860022  
 FAX : 886-2-29899451  
 主要產品：成衣輔料  
 PRODUCTS : Accessories for outdoor  
 wear.  
 E-mail : service@dragon-times.com  
 Website : www.dragon-times.com



**誠佳科技紡織股份有限公司**  
 Creative Tech Textile Co., Ltd.

負責人：王葉訓 董事長  
 PRESIDENT : Eddie Wang  
 TEL : 886-6-2727287  
 FAX : 886-6-2727282  
 主要產品：各種紡織品、布疋、衣著...  
 等各種流行布料  
 PRODUCTS : Jackets, outdoor-  
 wear, shirts, sportswear  
 and variety of Active-  
 wear.  
 E-mail : eddie@hansglobaltextile.net  
 Website : hansglobaltextile.net



**鼎祥國際興業有限公司**  
 3C-TEX  
 INTERNATIONAL CO.,  
 LTD

負責人：游炳和 董事長  
 PRESIDENT : J ALVIN YU  
 業務代表：曾玉宜  
 CONTACT : YUI JENG  
 TEL : 886-5-2348898  
 FAX : 886-5-2348896  
 主要產品：尼龍布、針織布、彈性布、聚酯布  
 PRODUCTS : NYLON, POLYESTER  
 E-mail : alvin0519@gmail.com  
 Website : www.3c-text.com



**信岳織造廠股份有限公司**  
 Sin Yo Textile Factory Co., Ltd.

負責人：邱岳坤 董事長  
 PRESIDENT : Chiu Yueh Kun  
 業務代表：李勇達 經理  
 MANAGER : Darren Li  
 TEL : 886-4-26816356  
 FAX : 886-4-26815194  
 主要產品：織帶、腰帶、鬆緊帶、提花  
 帶、圓繩、大小帶等  
 PRODUCTS : Webbing, Elastic Band,  
 Jacquard Webbing,  
 Variable Webbing, Cord  
 E-mail : tehgoang@ms15.hinet.net  
 Website : sinyo.tw



庭鋒企業有限公司

Anndywell Co., Ltd.

負責人：洪振耀 董事長

PRESIDENT : Chia-Pei, Chang

業務代表：洪振耀 總經理

Gen Manager : David, Hung

TEL : 886-2-22693530

886-2-22693531

FAX : 886-2-22693532

主要產品：彩色羽絨服

PRODUCTS : Colorful Down Apparel

E-mail : d1@rainbowdown.com

Website : www.rainbowdown.com



澳美針織有限公司

All Magic Sports Co., Ltd.

負責人：張裕豐 董事長

PRESIDENT : Arron Chang

業務代表：吳美華 小姐

MANAGER : Monica

TEL : 886-2-29956199

FAX : 886-2-29954560

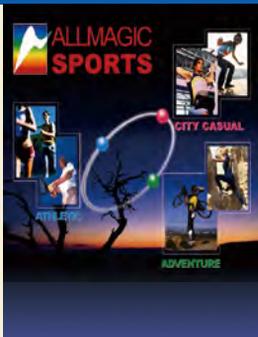
主要產品：各類紡織品、針織布、布疋

、成衣等業務

PRODUCTS : Functional Fabrics etc.

E-mail : allmagic@ms24.hinet.net

Website : www.allmagicsports.com



# Digital Transformation – Fashion Brands & Manufacturers Thriving in the Post-Pandemic World

## What is Product Lifecycle Management (PLM)?

Product Lifecycle Management is the foundation technology that links all people associated with making products such as merchandising, planning, design, technical design, product development, materials development, samples, fit reviews, product testing, product quality, sourcing, manufacturing, retail presentation and more.

PLM aligns manufacturers and fashion and apparel brands in a cloud-based digital environment, resulting in better collaboration, greater visibility and much faster production timelines and time to market.



## Market-Driven Innovations to Support Strategic and Operation Digital Transformation



Increase collaboration with brand and retail partners.



Improve accuracy of technical information and maintain quality.



Reduce costs from duplicated work and errors.



Focus on value-added work and drive growth.



Speed sampling and production timelines.

## PLM Benefits by Numbers



Reduce time-to-market by 15% to 50%.



Improve sales by 5% to 10%.



Reduce costs by 5% to 15%.



Improve productivity by 10% to 50%.

Over 450 manufacturers, retailers and brands around the world including **Crystal Group, Lever Style, MAS Holdings, Hirdaramani, Brandix, Louis Vuitton, Calvin Klein** and **Under Armour** trust Centric Software to assist them in their digital transformation. **Scan the QR code to understand more about Product Lifecycle Management (PLM) in just 3 minutes.**



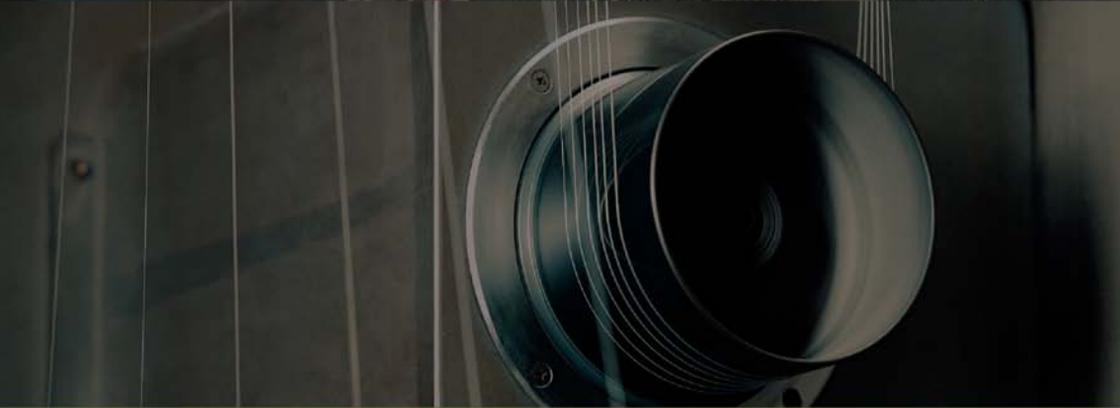
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[www.centricsoftware.com](http://www.centricsoftware.com)



# Innovating Renewal Technologies



## Rscuw Project

Recycling Scraps and Cutting Waste to Fibers

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