

Think Taiwan for Eco -Textiles

- Sustainable
- Innovative
- Functional
- Fashionable

Taiwan 2022/2023
<http://eco.textiles.org.tw>
EcoTextiles



Taiwan Textile Federation



TESTEX®



Sustainability is not a trend, it is a way of life.

From the raw material to the finished textile, we set standards and support brands, retailers and manufacturers in achieving their environmental, social responsibility and quality goals: testex.com

TESTEX代表高品質的檢測、分析與認證水平—瑞士品質，全球信賴。我們是全球認可的獨立檢測實驗室。更多資訊請訪問

www.testex.com | TESTEX® 臺北代表處 Tel : 02-2706-2828 Fax : 02-2706-0202 E-mail : taipei@testex.com



STANDARD
100



STeP



RESPONSIBLE
BUSINESS



MADE IN
GREEN



LEATHER
STANDARD



ECO
PASSPORT

TOUNG LOONG S.C.T.



Shape Control Twist
is the ultimate performance
fiber that escalate fiber's functions
to a new never before fabrics' experience.



東隆興業
TOUNG LOONG
TEXTILE MFG.

since 1960



CONCEPT

started when we notice about 50% + / - retain rate
in special cross section fiber such as x-shape,
hollow shape or c-shape
...etc

yet those special cross section fibers still outperform
regular round shape fibers what if we can increase those
retain rate by 10%, 20%, 30% or more.

what will happen.

東隆興業股份有限公司 Toung Loong Textile MFG.

Head Office:

19F, No. 31, Sec 2, San Ming Rd., Panchiao Dist.,
New Taipei City, Taiwan 220
220新北市板橋區三民路二段31號19樓

+886 2961 2112

Sales Office:

No. 859, Fu Kur Rd., Tao Yuan Dist.,
Tao Yuan City, Taiwan 330
330 桃園市桃園區富國路859號

+886 3 323 4111



www.toungloong.com

RePET®

PolyPlus® ReEcoya® NylonPlus® RePET® PolyPlus® ReEcoya®

NylonPlus® RePET® PolyPlus® ReEcoya® NylonPlus® RePET® PolyPlus® ReEcoya® NylonPlus® RePET®

RePET® PolyPlus® ReEcoya® NylonPlus® RePET® PolyPlus® ReEcoya® NylonPlus® RePET®

E

U

D



LIBOLON

www.libolon.com

LI PENG ENTERPRISE CO., LTD. TEL: 886-2-2100-2188 FAX: 886-2-2100-2178

AD by BÖFT

FENC® TOPGREEN®



ECO
Friendly

Recycled Filament / Recycled CD Filament

Recycled PET Filament 聚酯回收纖維

FENC® TOPGREEN® recycled PET filament is an outstanding environment-friendly fiber made from recycled post-consumer PET bottles, which were process through grinding, washing, melting, re-polymerizing, spinning and texturing into yarn.

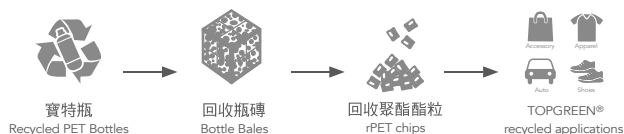
以回收寶特瓶為原料，經過粉碎、清洗、分解、聚合、造粒、加熱熔融、抽絲及假撚加工製成的纖維，是對地球生態絕對環保之素材。

Characteristics 特性

- 使用最先進的回收技術
Utilizes the most advanced recycling technology
- 減輕環境負擔，善盡地球公民責任
Repurposes waste, reduces reliance on petrochemicals and prevents environmental pollution
- 提供完整的可追溯性回收系統
TOPGREEN® recycled filament is completely traceable

Environmental Focus 環境友善指標

- 100% post-consumer recycled PET based
- Reduce GHG emission by >50% compared to conventional PET filament
- GRS | SCS | Oeko-tex | Green Mark



Contact information

Andy Cheng — andy.cheng@fenc.com — (O)+886-2-2733-8000 Ext.8821

Gloria Lien — gloria.lien@fenc.com — (O)+886-2-2733-8000 Ext.8814



U.S. COTTON
TRUST PROTOCOL

JOIN NOW

— — — SETTING A NEW STANDARD IN MORE SUSTAINABLE COTTON PRODUCTION

Launched in 2020, the U.S. Cotton Trust Protocol was designed to set a new standard in **more sustainably grown cotton**, ensuring that it contributes to the **protection and preservation of the planet**, using the most sustainable and responsible techniques. It is the only system that provides quantifiable, verifiable goals and measurement in **six key sustainability metrics** and article-level supply chain transparency.

The Trust Protocol provides **brands and retailers the critical assurances** they need to show the cotton fiber element of their supply chain is more sustainably grown with **lower environmental and social risk**.

Trust in a smarter cotton future.



To learn more or
become a member,
TrustUSCotton.org



服儀人文之美

Pureness White of the Heritage Series

持守恭敬心，順應自然、以和為貴，呈現自然之美。

Respect, coexist, and we shall see the true beauty of nature.



大愛感恩科技
DA.AI TECHNOLOGY CO., LTD.



www.daaitech.com

FORMOSA CIRCLEVERSE

Ecological, Environmental Protection & Energy-saving Textiles

Ecological & Environmental Protection Fabrics ·New Bio-based Polyester & Polyamide ·Bio-based Polyester & Polyamide From Plants
·OWASTEX™ Recycled Polyester & Polyamide From Scraps
·Bio-degradable ·Recycled Polyester & Polyamide From the Ocean
·Garment Recycled ·Umorfil® & Lyocell ·BOOMETEX® Recycled Polyester & Recycled Polyamide ·Renewably Sourced Fiber*
·CORDURA® Recycled durable Polyamide



HEAD OFFICE/PLANTS:
317 SHU LIU Rd., TOLIU 640, TAIWAN
TEL: +886 5 5573966 FAX: +886 5 5573969, +886 5 5573199

TAIPEI OFFICE:
11FL, 201 TUN-HWAN RD., TAIPEI 105, TAIWAN
TEL: +886 2 87701688 FAX: +886 2 27174316, +886 2 27171158

FORMOSA TAFFETA(HONG KONG)CO.,LTD.
TEL: +852 27353512 FAX: +852 27353327
E-Mail: h000030@ftc.com.tw

FORMOSA TAFFETA(ZHONG SHAN)CO.,LTD.
TEL: +86 760 8660 8061 FAX: +86 760 8660 9682
E-Mail: c2206@ftc.com.tw

FORMOSA TAFFETA(CHANG SHU)CO., LTD.
TEL: +86 512 52835191 FAX: +86 512 52835195
E-Mail: ftc-cs@ftc.com.tw

FORMOSA TAFFETA VIETNAM CO., LTD.
TEL: +84 272 3871039 FAX: +84 272 3871037
E-Mail: ftcv@ftc.com.tw



FORMOSA TAFFETA CO., LTD.



弘裕企業
HONMYUE

Established in 1970

Professional Supplier of Woven Fabric

High-Performance x Eco-Sustainable Textile

Weaving a Better World. Together.



Apparel Fabric



**Pack'n Bag &
Soft Equipment Fabric**



**Home & Contract
Fabric**



Medical Textile



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 **4,300 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

Website: 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 Best Choice of Eco-Friendly

Recycled Polyester Staple Yarn



The FCFC textile's polyester recycled yarn is spun with environmentally friendly recycled PET fiber, in line with the demands of global brands for green issues. It has passed the GRS textile certification to ensure that the use of recycled ingredients in the entire supply chain meets the requirements.



Specifications

- 100% polyester eco-friendly yarn
- Recycle polyester/ natural cotton blended yarn
- CVC recycle blended yarn
- Recycle polyester/ rayon blended yarn
- The yarn count can be spun from NE10/1 to NE40/1

Applications

Outdoor, Shoes, Backpack, Clothing and Apparel, etc



FORMOSA CHEMICALS & FIBRE CORPORATION

Textile Division | T 886-2-27122211 #8367 | taylor.text@fcfc.com.tw | pjhuang.text@fcfc.com.tw

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 集團合格化藥供應商



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
- **醫藥化學品**：前列腺素原料藥、抗高血壓原料藥
- **電子化學品**：光刻膠、顯影液、拋光液
- **全通科技**：碳粉



Everlight Chemical Industrial Corp.

6F., No.77, Sec. 2, DunHua S. Rd., Taipei 106, Taiwan
Tel:+886-2-27066006 sales-ccbu@ecic.com.tw


**Everlight
Chemical**



URL: <http://eco.textiles.org.tw>
E-mail: eco@textiles.org.tw
Tel: 886-2-2341-7251
Fax: 886-2-2357-0596
Add.: No. 22 AiGuo East Rd.,
Taipei, Taiwan
臺灣台北市愛國東路22號

©Published by
Taiwan Textile Federation,
All Rights Reserved
本刊圖文版權所有
未經同意不得轉載

According to the provisions
of the relevant laws, TTF
is not responsible for
any possible copyright,
trademark, or patent
infringements connected
with advertisements in this
publication for which we
have no reasonable way to
determine in advance that
such infringements exist. In
such cases, the advertisers
themselves must be held
responsible.

Graphic Design &
Printing / Cabin Inc.
設計印刷 / 加域有限公司

經濟部推廣貿易基金補助印製



臺灣環保紡織品精選專刊 出刊日期2022年10月

CONTENTS

14 *Editor's Notes*

16 *Cover Story*

Taiwan: The Best Sourcing Center for Functional + Eco Textiles

38 *Eco-Textiles Suppliers and Services*

53 *Taiwan Functional Textiles Certification*

Sustainable
Innovative
Functional
Fashionable



Printed on recycled paper with soy-based inks.
本印刷品使用大豆環保油墨，採用符合FSC環保紙印製。



The Best Choice for **Environment Friendly Nylon Filament**

Waterless dope dyed nylon fiber

Reduces resource consumption and minimizes CO₂ emissions*.

*Dope dyeing consumes 85% less water, 64% less power and results in 84% less CO₂ emissions compared to traditional piece dyeing.

100% recycled pre & post- consumer nylon filament

Stable chemical processing method guarantees high quality of recycled filament.

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100



FormoColor®

DOPE DYED NYLON FIBER

Dope dyed nylon fiber with excellent color fastness



FormoEco®

RECYCLED NYLON FILAMENT

Made of waste filament and chip from process



SEAWASTEX

RECYCLED NYLON FILAMENT

Made of recycled waste fishing net and oyster hanging strings

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。

臺灣紡織產業研發能量充沛，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。

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，希望促使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

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 bio-degradable 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，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 Toug 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

從餘到有一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® 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[®]) – Reducing Petrol Consumption and CO₂ 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[®]. 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[®] 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[®] reduces 30% of energy consumption and 63% of CO₂ emission compared with that of nylon chips, making it an ideal choice for eco textiles.

Nan Ya Plastics, Tounge 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 agritechnology, 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.

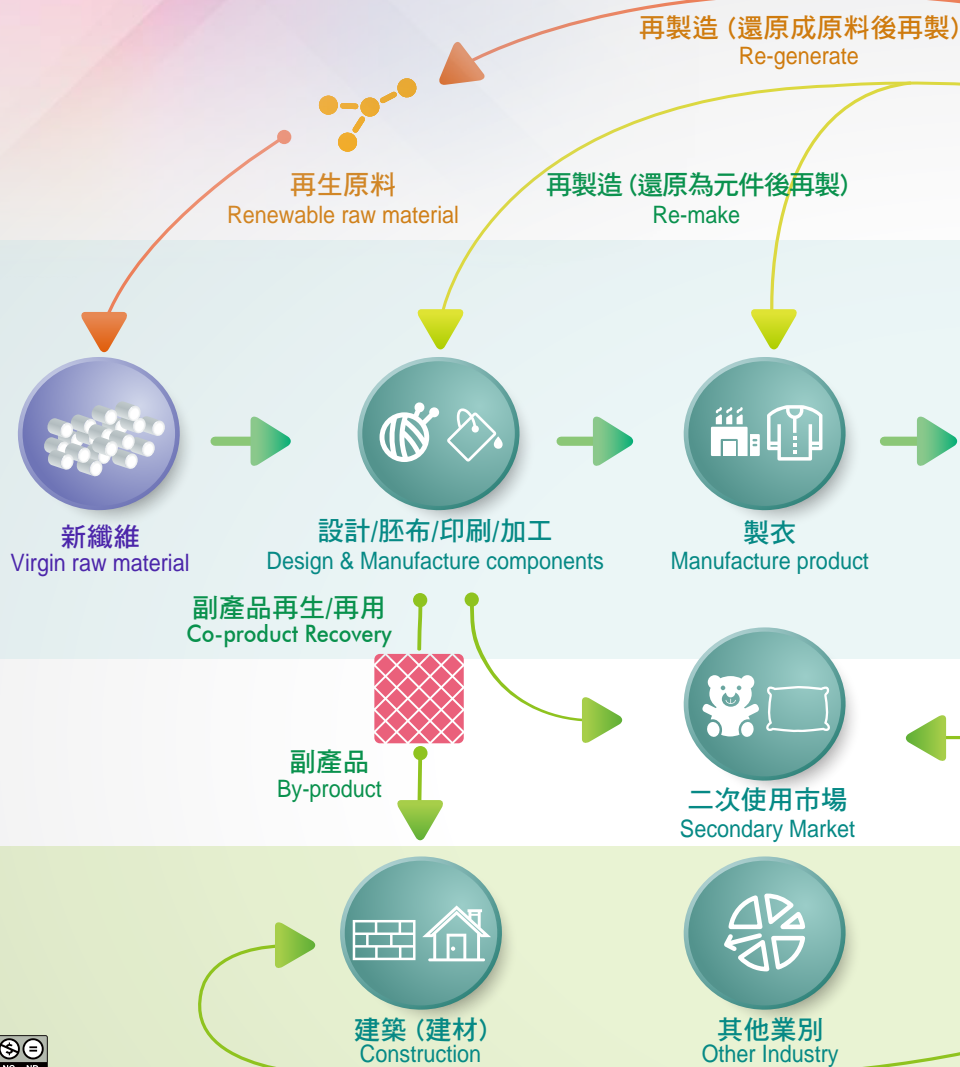


Get Certified – a Ticket to the Global Market

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[®], bluesign[®], 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

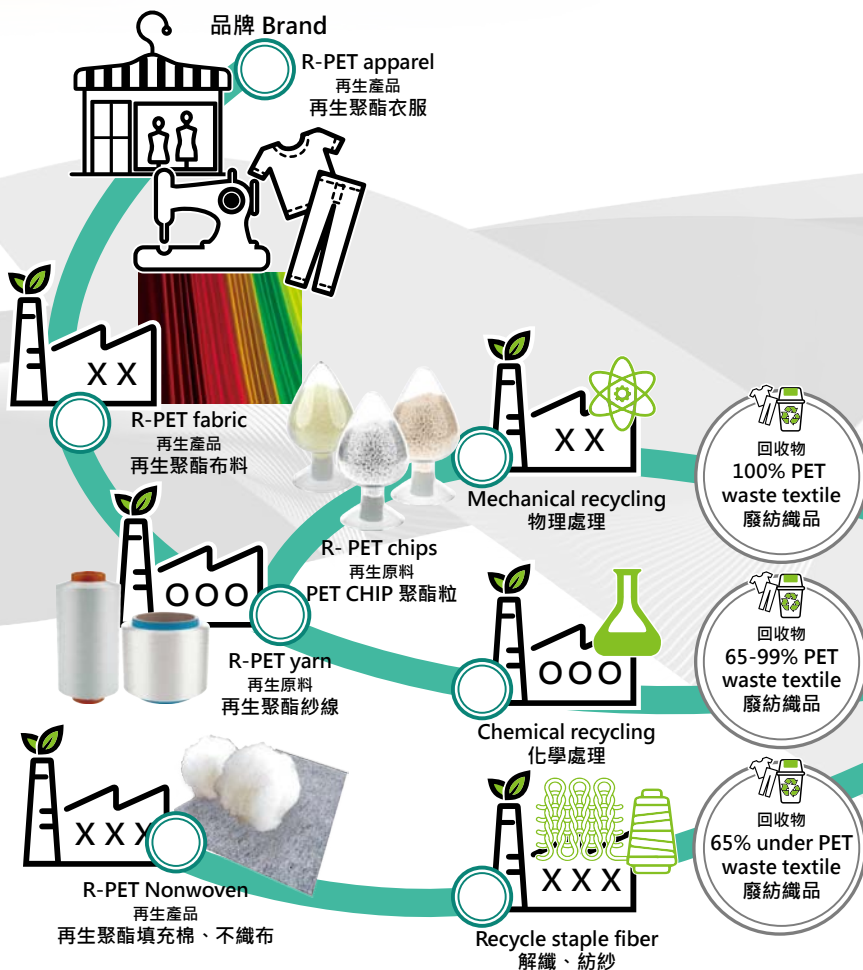


Reference: R2Pi Research report, BMI as one of of the consortium partners to conduct this research **BMI** 方略

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：〇〇 (回收商)

Set up the selection of materials

設定材質分選種類

(Polyester)

Identify the ratio of PET

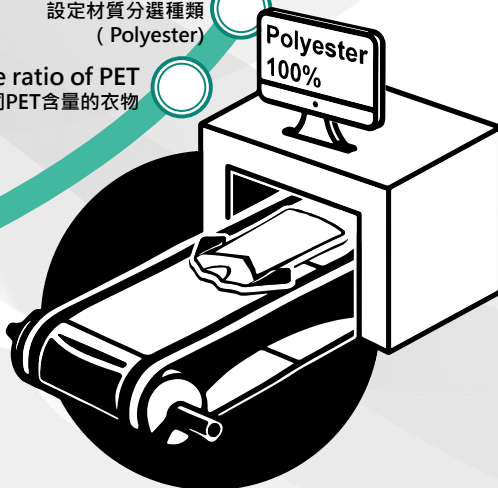
機器辨識不同PET含量的衣物



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.



Introducing our first-ever cooling performance solution made from 100% **textile waste**. It helps keep you cool and dry while creating a starting point for circularity. Join us on our journey toward a more sustainable world at COOLMAX.com.

Bringing New Life to Textile Waste



The LYCRA Company

High Performance Fabrics

Make You Energetic

GAC

DOPE

RECYCLED
DYED

FABRICS

low minimums vibrant colors real sustainability

Dope dyeing is the next step in sustainable performance. By adding the colorant during the production of fiber, we are able to avoid the most polluting step of fabric production: piece dyeing. This saves water, CO2 emissions, chemicals and energy in the process.

With vast amount of colors available, you can enjoy excellent color fastness, resistance to washing and UV fading, while knowing your collection is contributing to a greener tomorrow.

Great Value for Your Brand & the Planet

8F-B., No.69, Sec. 2,
Guangfu Rd., Sanchong Dist.,
New Taipei City 241, Taiwan
Grandtek Asia Corp.

www.gac2003.com,
t. 886-2-8512-3619,
f. 886-2-8512-3516,
GAC@gac2003.com



An
Inspiration
From **Oyster**

sea^{!!!}!!![®]

x



OCEAN PLASTIC
coalition



hanglobaltextile.net // info@hanglobaltextile.net

**CREATIVE
TECH
TEXTILE**

**Hans
Global
Textile**

“Stop greenwashing. Seawool, the most eco-conscious techy textile.”

TAILORED SOLUTIONS FOR TEXTILES AND APPAREL

Weaving quality into your clothing, textiles and footwear

Green & Safety Solution

- GRS/RCS
- ZDHC/MRSL
- CPSIA/CHCC
- Higgs 3.0
- REACH/SVHC
- California Pro 65
- AFIRM RSL/CNS 15290
- Microfiber Shedding

Functional Textile Testing

- Anti-bacterial
- UV Protection
- Breathability
- Visibility
- Windproof
- De-odorization
- Moisture Management
- Water Resistance
- Whitening-collagen
- Thermal Regulation



FOR MORE INFORMATION



+886 2 66022888



website.tw@intertek.com



intertek-twn.com



DANKEN

ENTERPRISE CO., LTD.



Function
Fashion
Sustainability
Innovation



DANKEN ENTERPRISE CO., LTD.

5F, 222, SEC.4, CHENGDE RD., TAIPEI, TAIWAN 11167

TEL: 886-2-28883070 FAX: 886-2-28804174

E-mail: danken@danken.com.tw

Http: [//www.danken.com.tw](http://www.danken.com.tw)



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
- ZDHC Principles and Procedures
- Submission Portal
- ZDHC MRSL Industry Standard Implementation Approach
- ZDHC Performance InCheck Guidelines
- ZDHC Conformance Guidance
- ZDHC Conformance Indicators

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 Insudtry Guide (TIG)
- ZDHC Chemical Inventory List
- ZDHC Performance InCheck Guidelines
- 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 Sludge Reference Document
- ZDHC Wastewater and Sludge Laboratory Sampling and Analysis Plan (SAP)
- ZDHC Electronic Data Reporting System
- Accepted Laboratories
- Wastewater Treatment Technologies
- Wastewater Treatment System Operator Minimum Qualifications Guidelines
- Leather Wastewater Guidelines Addendum
- ZDHC MMCF Guidelines
- ZDHC Air Emissions Position Paper

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.



ACADEMY

By @ ZDHC

The global go-to training platform for sustainable chemical management. This established centre of academic and practical expertise educates the industry.

ROADMAP TO

ZERO

Visit roadmaptozero.com for more information





Fabrix PLUS



Fabrix Plus Co.,Ltd is specialize in Woven, Denim, Boardshort, Jacquard and knit fabrics, we have many textile mills to cooperate with, such as Weaving, Dyeing, Foil Printed & Paper Printed mill etc., we have the ability and plentiful resource to develop the novelty, latest quality in fashion to reach the request of our clients.

Fabrix Plus is an experienced fabric manufacturer and exporter for overseas markets. Based on the rigid quality control (QC) and cost effective, we have the confident to provide the best products with highly competitive price and punctual delivery to our clients.

Our principle and goal is to provide good quality and reliability product to our clients from all over the world. We are trying our best to be the supplier with good reputation.

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

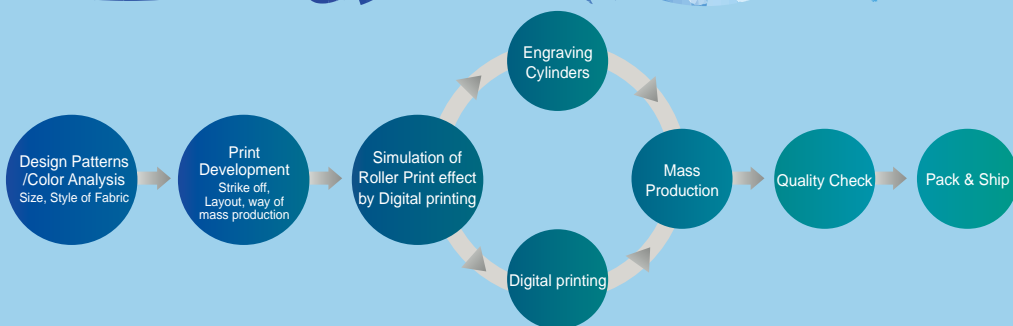
tony@fabrix-plus.com or clwu@fabrix-plus.com

FABRIX PLUS

7F-8, No. 20, Lane 609, Sec. 5, Chongxin Rd., Sanchong Dist, New Taipei City 241, Taiwan

Tel: +886-2-29956700 Fax: +886-2-29955977

Transfer Paper Printing with CMYK Expert
Grand Printex provides 95% above reproducible from digital strike-off to engraving roller printing production with one-stop solution.
We are both professional on digital and engraving roller printing



Background-

An efficient and quick responses of sublimation process, we help you to create the printing values.

Certification: Bluesign, GRS, Higg, ISO9001, UKAS Management system, Taiwan Gold award, and Taiwan Best Manufacturing award.

Grand Printex Co., Ltd (abbreviate GP) was established in 1978 at Taiwan, and we are the professional sublimation printing company. Driven by our founder's spirit, Quality Assurance, Quick Response, and displaying the Spirit of Pattern Design by the highest quality printing.

Expertise-

How to demonstrate color reproducible of the design from RGB color to CMYK print well? We provide the simulation of roller printing effect by digital prints, which relies on our integrity expertise of sublimation printing with more than 40 years efforts. The similarity of the digital strike off and roller printing can be reached to 95% or above. That is the key to deliver every bulk with stable and high quality, to present the beautiful design on the garment.

Sustainability-

Our management team is also devoting on Eco-friendly production process, our process is water-free, and we had installed air pollution treatment equipment, 86.6% improvement of air pollution. We are planning to install the solar panels on the top of factory's roof to achieve the green energy savings, estimated installment finished on 2024.



Bag



Clothing



GRAND PRINTEX CO., LTD.

Oversea Developer Ben
 Email: ben@grand-printex.com

Tel : +886 2-886-2-8295-6877 Ext. 11 Fax: +886-2-8295-5595 Vat : 12632678

Web: www.grandprintex.com/

Email CC : lan11@grand-printex.com; business@grand-printex.com

NO.2-11, Ln 48, Sec. 2, Minyi Rd., Wugu Dist., New Taipei City 24858, Taiwan(R.O.C)



LINE
official Account

GP QR-Code, Please scan and join us!



LINE
Official Account



HUNTSMAN

Enriching lives through innovation

FOR EXCELLENT WASH DURABLE WATER REPELLENCY

PHOBOTEX® R-ACE

Taking you to the finish line

PHOBOTEX® R-ACE non-fluorinated durable water repellent is engineered to deliver the perfect combination of water repellency and sustainability credentials without compromising on fabric quality. As demand for PFC-free chemistries grow, we enable brands and mills to enjoy the highest repellency performance while staying ahead of tightening industry regulations.



PFC-free



Robust



Durable



Safe

www.huntsman.com/textile_effects

Scan the QR code to learn
more about our products.





翰新實業股份有限公司
HANDSELTEX INDUSTRIAL CORP.
www.hst.com.tw



FLEXIBLY THE BEST
SOFT & COMFY



FASHION
ATHLEISURE
ECO FRIENDLY

High quality Fashion,
Environmental protection & Functional knitted products.



The Best Source For
TAIWAN
FUNCTIONAL
TEXTILES

FLEXIBLY THE BEST
SOFT & COMFY



FASHION
ATHLEISURE
ECO FRIENDLY

High quality Fashion,
Environmental protection & Functional knitted products



翰新實業股份有限公司
HANDSELTEX INDUSTRIAL CORP.

台灣台北市松山區第一段27號8樓
4F, NO.27, Sec. 1, Chungshan E. Rd., Zhongshan Dist., Taipei, Taiwan
TEL : +886-2-2521-7388 FAX : +886-2-2521-1383
e-Mail : gerry@hst.com.tw
www.hst.com.tw



Bureau of Foreign Trade,
Ministry of Economic Affairs
AIT by Bureau of Foreign Trade

COLLECTION

時尚系列

FASHION

運動休閒

ATHLEISURE

環保布料

ECO FRIENDLY

台灣機能性紡織品驗證 TAIWAN FUNCTIONAL TEXTILES CERTIFICATION



免水染環保織物
Eco Dyed Textiles



吸濕排汗速乾紡織品
Moisture Transferring
and Quick Drying Textiles



防紫外線紡織品
Ultraviolet Protective
Textiles



瞬間涼感紡織品
Cool Feeling Textiles

終端應用 APPLICATION PRODUCTS



流行男女服飾
Fashion wear



戶外機能服飾
Outdoor wear



運動服飾
Sports wear



專業工作制服
Professional Work Uniform



家飾布
Home & Furniture Textile



居家服飾
Life wear



流行西裝服飾
Suits



環保服飾
Eco friendly wear



長期照護用布
Long-term Care Textile

true carbon zero

carbon-zero TENCEL™ fibers

零碳天絲™纖維

零碳天絲™纖維源自可再生木材,採用可持續工藝製作,並且100%可生物降解。
天絲™品牌纖維不僅通過減少碳排放,還在生產過程中使用可再生能源來降低碳足跡。



 TENCEL.TW  tencel_taiwan

蘭精台灣纖維有限公司

110 臺北市信義區東興路53號7樓

Tel: +886(2) 8768 1023 E-mail: taipei@lenzing.com

find out more: www.tencel.com

TENCEL™ 和天絲™ 是Lenzing AG 的商標 © 2022 Lenzing AG

蘭精™ 環生纖™

LENZING™
EcoVero™



減少自然資源消耗、增加回饋
為消費者提供環保的選擇



取材於
可持續發展木源

經歐盟認證獲得
生態環保標籤(Ecolabel)



生產工藝的二氧化碳排放
和水汙染 減少50%



環保黏膠纖維



f Taiwan.ECOVERO ecovero_taiwan

蘭精台灣纖維有限公司

110 臺北市信義區東興路53號7樓

Tel: +886(2) 8768 1023

E-mail: taipei@lenzing.com

find out more: www.ecovero.com ECOVERO™ 和環生纖™ 是Lenzing AG 的商標 ©2022 Lenzing AG



新惠基股份有限公司
SHINWITTEX CO., LTD.



宗嘉股份有限公司
ZEUSTEX CO., LTD.

MAJOR PRODUCTS

1. Elastic Yarn

- Lycra/Spandex with Nylon/Polyester Yarn (Single/Double/Air-Jet Covering)
- Rubber Thread with Nylon/Polyester Yarn (Double Covering)

2. Elastic Webbing / Braiding / Cord / Tape

- Rubber Thread/Spandex with Nylon/Polyester (for Garment and Shoes Use)



Office:
SHINWITTEX CO., LTD.

7F-4, No.19, Kuan Chien Road, Taichung City 404601,
Taiwan

TEL: 886-4-23235752, 23235762

FAX: 886-4-23232593

E-mail: sales1@shinwittex.com.tw

Factory:
ZEUSTEX CO., LTD.

No.6, Zhongcun, Citong Township, Yunlin County
647001, Taiwan



CU1015964GRS-2021-00028695



紡織暨鞋類製品服務

紡織暨鞋材實驗室為財團法人全國認證基金會 (TAF) 之核可登錄實驗室，並獲全球知名品牌及企業界的信賴，依據世界各地不同的標準，提供紡織、鞋材及皮革製品相關測試，以確保達到客戶需求，確保紡織及鞋材產品的安全性及功能性等服務。

紡織製品實驗室

- 洗標及縮率相關測試
- 成份及組織分析
- 強度測試
- 燃燒測試
- 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

COPPER ALLOY

AB65 
Fiber for the future

NATURAL FRIENDLY SUSTAINABLE

Anti-bacterial & Mildew proof

Natural and Non-toxic

Environment friendly

Sustainable product for textile



Certification



Future Applications

- Antistatic
- Underwear
- Health care
- Electromagnetic shielding
- Textile Wearable Technology



元祥金屬工業股份有限公司
YUANG HSIAN METAL INDUSTRIAL CORP.

TEL: +886-4-7613688 E-mail: info@yhm.com.tw
FAX: +886-4-7612289 WEB: www.ab65ft.com



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 21th year and is moving towards becoming abridge 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21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



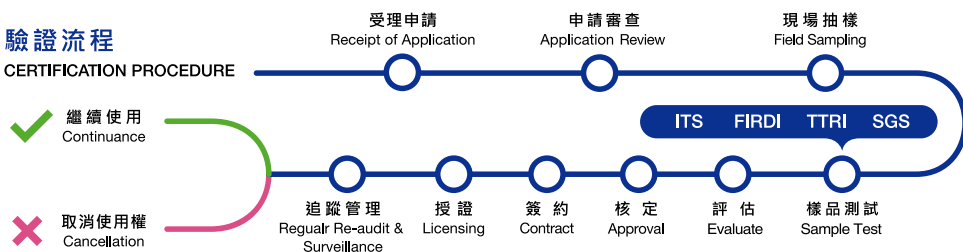


驗證流程

Procedure of Taiwan Functional Textiles

驗證流程

CERTIFICATION PROCEDURE



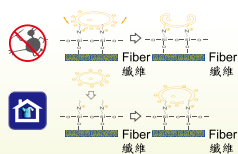
The Best Source For

TAIWAN FUNCTIONAL TEXTILES



FTTS-FA-001

Antibacterial Textiles for General Use



PERFORMANCE SPECIFICATION

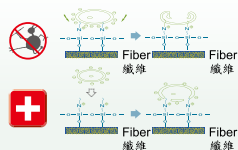
Type	Grade	Classification	Washing cycles	percent reduction of bacterial, R
I	AAAAA	Excellent	50 Washing	$R \geq 99.9$
	AAA	Good	50 Washing	$99 \leq R < 99.9$
II	AAAAA	Excellent	20 Washing	$R \geq 99.9$
	AAA	Good	20 Washing	$99 \leq R < 99.9$
III	AAAAA	Excellent	No washing required (disposable)	$R \geq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

CERTIFIED SUPPLIERS

• Metz Enterprise Co., Ltd. • Walkpuls Ltd., Co.

FTTS-FA-002

Antibacterial Textiles for Medical Use



PERFORMANCE SPECIFICATION

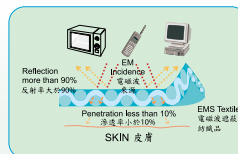
Type	Grade	Classification	Washing cycles	percent reduction of bacterial, R
I	AAAAA	Excellent	100 Washing	$R \geq 99.9$
	AAA	Good	100 Washing	$99 \leq R < 99.9$
II	AAAAA	Excellent	No washing required (disposable)	$R \geq 99.9$
	AAA	Good	No washing required (disposable)	$99 \leq R < 99.9$

CERTIFIED SUPPLIERS

• Metz Enterprise Co., Ltd.

FTTS-FA-003

Electromagnetic Shielding Textiles



PERFORMANCE SPECIFICATION

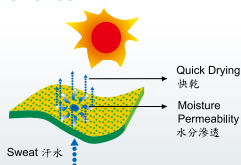
Grade	Excellent	Very good	Good	Moderate	Fair
Shielding Effective (dB)	$SE > 30dB$	$30dB \geq SE > 20dB$	$20dB \geq SE > 10dB$	$10dB \geq SE > 7dB$	$7dB \geq SE > 5dB$

CERTIFIED SUPPLIERS

• Yao Shield Co., Ltd.

FTTS-FA-004

Moisture Transferring and Quick Drying Textiles



PERFORMANCE SPECIFICATION

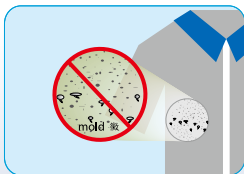
Type	Diffusion ability	Drying ability	Absorbency speed (Dropping)	Absorbency speed (Byreck)	Classification
I	5	5	Pass	$X \geq 130\text{mm}$	Excellent
II	4	4	Pass	$130\text{mm} > X \geq 100\text{mm}$	Very Good
III	3	3	Pass	$100\text{mm} > X \geq 80\text{mm}$	Good

CERTIFIED SUPPLIERS

- Lee Ven Industrial Co., Ltd.
- S.B.Motif Co., Ltd.
- Yea Chin Co., Ltd.
- 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.
- GLOWTEX INNOVATION CO., LTD.
- GUANG QIAN Industrial Co., Ltd
- K.F. INDUSTRIES CO.,LTD.

FTTS-FA-006

Antifungal Textiles



PERFORMANCE SPECIFICATION

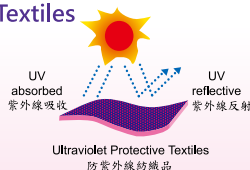
Area of Fungi Growth on Specimens(%)	Grade	Classification
None	AAAAA	Excellent
$\text{Aear} \leq 10$	AA	Good
$10 < \text{Area} \leq 30$	A	Fair

CERTIFIED SUPPLIERS

- Metz Enterprise Co., Ltd.

FTTS-FA-008

Ultraviolet Protective Textiles



PERFORMANCE SPECIFICATION

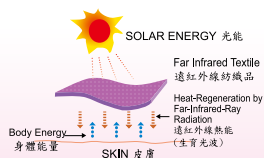
UPF	Erythral ultraviolet penetration rate (%)	Grade	Classification
40 - 50 · 50+	≤ 2.5	A	Excellent
25 - 39	2.6 ~ 4.1	B	Very Good
15 - 24	6.7 ~ 4.2	C	Good

CERTIFIED SUPPLIERS

- Lee Ven Industrial Co., Ltd.
- 3D Apparel Co., Ltd.

FTTS-FA-010

Far Infrared Textiles



PERFORMANCE SPECIFICATION

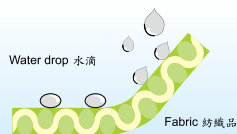
Evaluation	Qualification
Far Infrared Characteristics	Far Infrared Spectral Emissivity: The average emissivity of light waves with the wavelength of 2-22μm is not less than 0.80, as measured by Far-Infrared spectrophotometer.
	Re-radiating Characteristics: Difference in temperature between the test sample and reference sample is not less than + 0.5°C and the effective difference is better than the reliable limit of 95%
Temperature Characteristics	Thermograph / Monitor Test: 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

- SING LONG TOWEL FACTORY CO.,LTD.
- Fashion Garment Ind.Co., Ltd.
- Lee Ven Industrial Co., Ltd.
- Shengshun Co., Ltd.

FTTS-FA-011

Water Repellent Textiles



PERFORMANCE SPECIFICATION

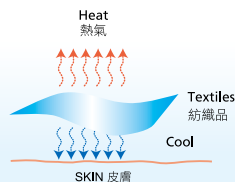
Type	Washing Condition			
	As Received	After 10 times washing	After 20 times washing	Usage Reference
I	Above 90	—	Above 80	Durable Water Repellency
II	Above 90	Above 80	—	Durable Water Repellency
III	Above 90	—	—	Normal Water Repellency

CERTIFIED SUPPLIERS

- Hi-tex Textile Co., Ltd.
- F-Seasons Enterprise Co., Ltd.
- NAN YA PLASTICS CORPORATION
- PEPWING INTERNATIONAL CORPORATION
- Chung Ming Textiles Enterprise Co., Ltd.
- JJ Function CO., LTD.
- Li Peng Enterprise Co. Ltd.

FTTS-FA-019

Cool Feeling Textiles



PERFORMANCE SPECIFICATION

Maximum heat loss per unit (W/cm2)	
Knit	≥ 0.130
Weave	≥ 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.
- Fashion Garment Ind.Co., Ltd.
- Yea Chin Co., Ltd.
- Heimtex International Corporation
- AOYAMA Co., Ltd.
- Sain Sou Co., Ltd.
- Vision golf Co., Ltd.
- KUSO TOP International Co.,Ltd
- Chung Ming Textiles Enterprise CO., Ltd.

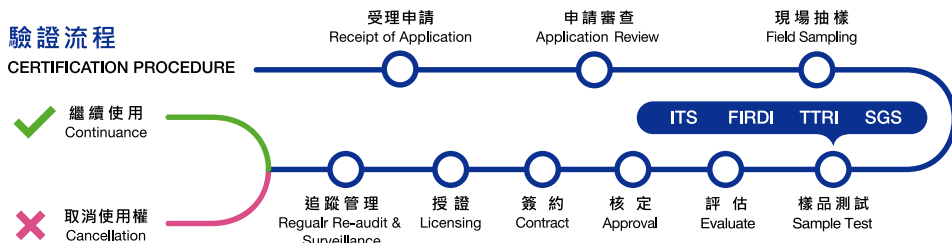


台灣機能性紡織品驗證

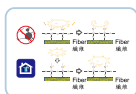
TAIWAN FUNCTIONAL TEXTILES CERTIFICATION

驗證流程

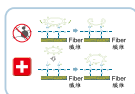
CERTIFICATION PROCEDURE



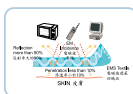
驗證項目 CERTIFICATION ITEM



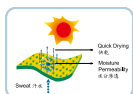
FTTS-FA-001
一般用途抗菌加工紡織品
Antibacterial Textiles for General Use



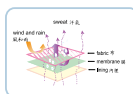
FTTS-FA-002
醫療用途抗菌加工紡織品
Antibacterial Textiles for Medical Use



FTTS-FA-003
防電磁波紡織品
Electromagnetic Shielding Textiles



FTTS-FA-004
吸濕排汗速乾紡織品
Moisture Transferring & Quick Drying Textiles



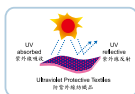
FTTS-FA-005
透濕防水紡織品
Water-Vapor Permeable & Liquid-Water Impermeable Textiles



FTTS-FA-006
防黴性紡織品
Antifungal Textiles



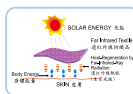
FTTS-FA-007
防皺紡織品
Wrinkle Free Textiles



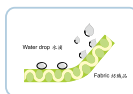
FTTS-FA-008
防紫外線紡織品
Ultraviolet Protective Textiles



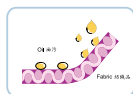
FTTS-FA-009
抗靜電紡織品
Antistatic Textiles



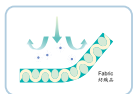
FTTS-FA-010
遠紅外線紡織品
Far Infrared Textiles



FTTS-FA-011
撥水紡織品
Water Repellent Textiles



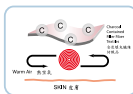
FTTS-FA-012
撥油紡織品
Oil Repellent Textiles



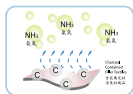
FTTS-FA-013
易去污紡織品
Stain Release Textiles



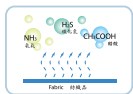
FTTS-FA-015
防焰紡織品
Flame-Resistant Textiles



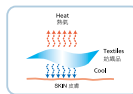
FTTS-FA-016
保暖性含炭填充纖維紡織品
Charcoal Contained Filler Fiber Textiles for Warmth Retention



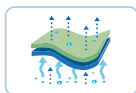
FTTS-FA-017
含炭填充材料除臭性紡織品
Deodorization for Charcoal Contained Filler Textiles



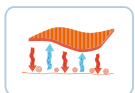
FTTS-FA-018
除臭加工紡織品
Deodorized Textiles



FTTS-FA-019
瞬間涼感紡織品
Cool Feeling Textiles



FTTS-FA-020
吸濕排汗速乾多層
Liquid Moisture Management Properties of Textile Fabrics



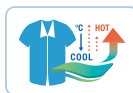
FTTS-FA-023
吸濕發熱紡織品
Generating Heat-Textiles by Moisture Absorption



FTTS-GA-024
運動用自行車衣
Cycling Clothing



FTTS-GA-025
慢跑服
Jogging Clothing



FTTS-GA-026
節能衫
Specified Requirements of Energy-saving Clothing



詳情可至官網查詢
tft.tftapproved.org.tw

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.tftapproved.org.tw>



Taiwan Functional Textiles
台灣機能性紡織品

Taiwan Innovative Wool Textiles 2022

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.
Anddywell Co., Ltd.
Carol Textile Co., Ltd.
Chia Her Industrial Co., Ltd.
Creative Tech Textile Co., Ltd.
D.A.G. Co., Ltd.
Derwel Textile Co., Ltd.
DJIC Limited

E.Textint Corp.
GTM Corporation
Gemloom Textile Co., Ltd.
GOOD SHINE CO., LTD.
Handselltex 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.
Sunshine Textile Co., Ltd.
Tai Fu Textile Co., Ltd.
Tomlong Techstle Corp.
Texwell Textile co., Ltd.

Taiwan Innovative Wool Textiles Taiwan Innovative Wool Textiles

紡紗、織布染色及整理一貫作業廠 Spinning, Weaving, Dye & Finishing Manufactory

佳和實業股份有限公司 Chia Her Industrial Co., Ltd.

負責人：翁茂欽 董事長
PRESIDENT: Maw-Jang Wong
業務代表：翁偉翔 執行副總
MANAGER: Chase Wong
聯絡電話：886-2-27123998
聯絡傳真：886-2-27123127
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@mail.hwa.com.tw>
Website: www.chgtex.com
<http://www.hwa.com.tw>



梳毛紡紗廠 Worsted Spinning Manufactory

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、花式撚紗
PRODUCTS: Worsted Yarn, Blended Yarn, Wool Weaving Yarn, Fancy Yarn
E-mail: lin@garden-square.net



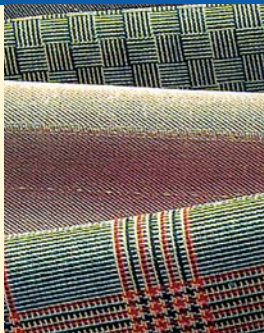
勤益國際紡織股份有限公司 GTM Textile Co., Ltd.

負責人：顧肇基 董事長
PRESIDENT: George Gu
業務代表：洪振昇 協理
VICE.PRESIDENT: Johnson Hung
聯絡電話：886-2-25523466
聯絡傳真：886-6-27765073
主要產品：羊毛混紡西裝布料、羊毛襪具、各式羊毛製品、功能性布料
PRODUCTS: Worsted Wool Blend Suing Fabric, Wool Comforter and Wool Pillow, Wool Product: Scarf, Underwear, Synthetic Functional Fabric
E-mail: gtmtextile@gtm.com.tw
公司網址: http://www.gtm.com.tw



山象紡織股份有限公司 Sunshune 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：簡茂勇 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、紡毛混紡紗、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) Woollen 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：黃建鑫 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：花式撚紗、混紡紗、亞克力紗、羊毛紗、麻棉紗
PRODUCTS: Fancy yarn, fluff 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：吳中和 董事長
PRESIDENT: C.H.Wu
業務代表：顏炳煌 總經理
Gen Manager: Y.P.H
TEL: 886-6-2531221~8
FAX: 886-6-2536505
主要產品：毛混紡紗、毛混紡織物、TR混紡色紗、TR格子布、聚酯加工絲
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



◆ 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



● 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.ckmain@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: 應柔蘭 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紡織品貼合業務

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、萊卡印花、旅行箱用布、
嬰兒車襪布、成衣用布、PET環保
紗、抗UV、吸濕排汗、防霉抗菌、
防火阻燃、功能性繻布、繻布貼合

PRODUCTS : Velcro, Lycra Printed, Luggage Net,
Baby Car Net, Garment Fabrics, Anti-UV, Wicking,
Anti-Bacterial, Flame Retardant, Functional
Fabrics, PVC, TPU, PEVE, EVA And Lamination...

E-mail : derwei@derweltext.com.tw

Website : www.derweltext.com

**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
varieby of Active-wear.

E-mail : sunny@caroltex.com

Website : www.caroltex.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 varieby of Active-
wear.

E-mail : eddie@hanglobaltextile.net

Website : hanglobaltextile.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 : JALVIN 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 : alvino519@gmail.com

Website : www.3c-text.com

**庭鋒企業有限公司**

Anndywell Co., Ltd.

負 責 人：洪振耀 董事長

PRESIDENT : Chun Yao, Hung

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

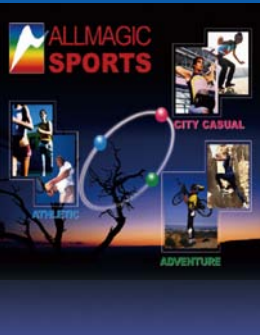
主要產品：各類紡織品、針織布、布疋

、成衣等業務

PRODUCTS : Functional Fabrics etc.

E-mail : allmagic@ms24.hinet.net

Website : www.allmagicsports.com



得偉染織股份有限公司

TEXWELL TEXTILE CO., LTD.

負責人：施坤煌 董事長

PRESIDENT : SHIH, KUN HUANG

業務代表：施建德 特助

CONTACT : RICK SHIH

聯絡電話：886-4-7977227

聯絡傳真：886-4-7977100

主要產品：針織布 (刷毛布, 特力可得, 網洞布, 貼合品及其他機能型針織布)

PRODUCTS : Fleece, Tricot, Mesh, Soft Shell, and other functional fabrics

E-mail : rickshih@texwell-textile.com

Website : http://www.texwell-textile.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、圍繩、大小帶等

PRODUCTS : Webbing, Elastic Band,

Jacquard Webbing,

Variable Webbing, Cord

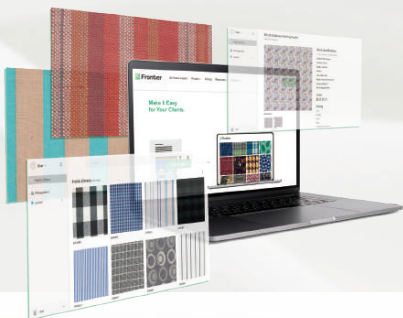
E-mail : tehgoang@ms15.hinet.net

Website : sinyo.tw





The Gateway Into the Global Digitized Fashion Value Chain



Rapid material digitization



Global collaboration platform



CO₂ and ESG impact measurement

**Create Your Digital Library With Ease —
No External Kit or Outsourcing Required!**

Fast

Efficient

Low-Cost



Take your material swatch or hanger



Scan using a regular office flatbed scanner



Image and text recognition via AI-powered technology



Downloadable 3D file — ready in minutes!

Environmental Impact Measurement



CO₂ emissions



Land use



Water consumption

Material Metadata

AI-generated maps (layers) which bring the design to life as they represent the character of the fabric.

Physical Properties

Stretch, bend, thickness, etc.

Consulting Service: A Painless Shift to a Digital Workflow



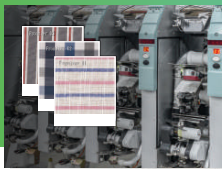
Simplicity

Easy-to-use platform for digitization.



Learning

Hands-on cross-departmental training and mentoring.



Integration

Open API toolkit for interoperability.



Sustainability Strategy

ESG data procurement and planning.

► 打造紡織品新典範



Bureau Veritas

Consumer Products Services

Bureau Veritas



► A Comprehensive Range of Textile Testing Service

- 物性測試
- 化學測試
- 防火測試
- 抗菌測試
- 纖維成分分析
- 機能性紡織品測試




BUREAU
VERITAS

Bureau Veritas Consumer Products Services, Taiwan
法商必維國際檢驗集團 消費性產品事業部 台灣分公司
ADD : 112 台北市北投區中央南路二段37號
TEL : + 886-2-2895-3666 FAX : + 886-2-2895-6999
<http://www.bureauveritas.com.tw/cps>



Bureau Veritas Consumer Products Services是必維國際檢驗集團旗下的消費性產品服務事業群，服務對象涵括供應鏈之原料供應商、製造商、採購業主、零售商、及品牌商等。我們協助客戶掌握法規要求，提供全方位測試服務和整合性品質管理方案。



Innovating Renewal Technologies

SAYA365

Industry's Favorite Recycled Bottle Fiber

再生纖維領導品牌

南亞再生紗仔 / SayaRenew.com



SAYA