



FORMOSA TAFFETA

1st BUSINESS
SEGMENT
PRODUCTS

Since
1973

2nd BUSINESS
SEGMENT
PRODUCTS



**FORMOSA
TAFFETA**

FTC Product Overview Handbook

FORMOSA TAFFETA CO., LTD.

◆ ■ FIBER and TEXTILE

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01 About FORMOSA TAFFETA

Company Profile

FORMOSA TAFFETA CO., LTD. was registered and established in the suburb of Touliu, Yunlin County on April 19, 1973. The Company, formerly known as "Formosa Fiber Co., Ltd.," was jointly founded by one of Formosa Plastics Group's affiliates, Formosa Chemicals & Fibre Corporation (FCFC), and some prestigious professionals in the industry during a period when Taiwan's textile manufacturing and export was booming. Modern equipment for filament polyamide and polyester taffeta fabrics production/weaving, dyeing, printing, etc. was introduced after the Company was established.

- The Company was renamed as "FORMOSA TAFFETA CO., LTD." in January 1979.
- Its stock has been publicly listed in Taiwan Stock Exchange since December 1985 with a total capital of NT\$16,846,646,370.
- Set up an ESG Committee in May 2022



Business Scope

The Company is committed to specializing the textile industry's midstream technologies such as and is active in development and innovation. By connecting with upstream raw yarn materials s
facturers, the Company has become an essential part in the textile industry structure/chain, and
and polyester taffeta fabrics in the world with excellent output and quality. The Company keeps
well-known brands particularly in the development of multi-functional fabrics used for sportswear
and has enjoyed the praise of being a "faithful supplier" among customers in relevant industries
diversification development, the Company has invested in businesses including the manufactur
fabrics for safety protection, PE plastic bags, carbon fiber cloth, petrol stations, etc. For nearly
business philosophy of harmony, innovation, service, and dedication to faithfully supply and sup
ucts, services and information, and to make efforts to achieve a better quality of life for mankind

01 About FORMOSA TAFFETA



Harmony

Through ethical management, the Company can help individuals, departments, companies, customers, collaborative manufacturers, communities, industries, local societies, etc. to develop in harmony.



Service

The Company earns a foothold in the industry based on its honesty, efficiency, and consistent services. Employees of the Company all possess the attributes and enthusiasm for serving and helping others, based on which various products and services are provided to meet customers' needs.



s filament weaving, dyeing, printing, finishing, etc., suppliers and downstream finished product manufacturer is a major manufacturer of filament polyamide space with fashion trends and internationally wear, outdoor wear, casual wear, and fashion clothing, around the world. In order to achieve its goal of ing of tire cord, cotton yarn/cotton cloth, special half a century, the Company has been upholding its support downstream industries with high-quality product.

Business Philosophy



Innovation

The Company is active in providing innovative and inventive environment, channels, systems, etc. to inspire personnel to reach their potential and develop better design and products for product users and the Company to keep progressing.



Dedication

By providing quality products, the Company facilitates the prosperity of the industry, and enhances people's quality of life. Moreover, through giving back to society, the Company can combine corporate goals with social care, and cross borders to connect with the whole world.

ESG

Sustainable Development

- ✓ Being recognized as a 2021 Outstanding Industrial Manufacturer for GHG Reduction.
- ✓ Being selected as a constituent of the FTSE4Good Emerging Index.
- ✓ Being selected as a constituent of the FTSE4Good TIP Taiwan ESG Index for three consecutive years.
- ✎ Installing solar panels for green power generation.
- ✎ Substituting coal with LPG, and replacing old equipment to improve manufacturing processes.
- ✎ Improving wastewater recovery systems to increase the recovery of resources.



O2 Filament Fabrics

Sports / Casual / Downproof & Windbreaker / Outdoor / Umbrella



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Filament Fabrics

Formosa Taffeta has established well-structured yarn spinning, weaving, dyeing, printing, and various high-tech finishing/processing plants for filament/spun fabrics production. Its major products include fabrics for high value-added sportswear, casual wear, fashion clothing, outdoor casual/recreation equipment, industrial protective clothing, high-performance protective clothing, industrial electromagnetic radiation shielding fabrics, umbrella fabrics, etc., which allows it to play a leading role in the market. For nearly half a century, the Company has collaborated with upstream and downstream partners based on a philosophy of mutual prosperity, and has won recognition from customers around the globe.



Carbon Capture EG Polyester / Bio-based polyester and polyamide / OWASTEX™ / Recycled Polyester & Polyamide from the Sea Waste & Oyster Farming / BOOMETEX™ / Microfeel® / SUNECO® / Permacool® / UVoutex® / PERMAWARM® / SNUGGTEX® / COMOFIT® / abletex® / FONEWR Nano® / Trans-Uno® / AQUAOFF® / Solution dyed / Ultra-lightweight / Downproof by construction / Umbrella

O2 Filament Fabrics

Carbon Capture EG Polyester Bio-based polyester and polyamide

Carbon Capture EG Polyester Bio-based refinery Eco-friendly fabrics

Carbon Capture EG Polyester is produced by adopting special carbon capture and biological technologies to convert industrial waste carbon dioxide into ethylene glycol, which is a raw material for low-carbon polyester fibers, and then turn it into new products. Carbon Capture EG Polyester low carbon emission polyester fiber and its textiles not only recycle the greenhouse gases emitted by the industry but also reduce the dependence on petrochemical raw materials and carbon pollution of the environment, making it an innovative and sustainable eco-friendly material.



Bio-based polyester and polyamide

 Bio-based refinery  Eco-friendly fabrics

The materials used for the new-generation eco-friendly "Bio-based Fabric" launched by the Company include Bio-based Polyester, Bio-based Polyamide 56, and Polyamide 410. By substituting traditional petrochemical raw materials with Bio-based materials extracted from plants, the petroleum consumption and GHG emissions can both be reduced, and the original material properties can still be kept, by which a type of new-generation eco-friendly products is achieved. With various processing techniques, the fabrics can possess excellent water repellent or waterproof breathable functionalities, making them a new option for outdoor sports lovers.

- Bio-based Polyamide 56

Contains 45% Bio-based ingredients taken from plants such as non-food corn, sugarcane, etc.

- Bio-based Polyamide 410

Contains 70% Bio-based ingredients taken from non-food castor oil plants.

- Bio-based polyester

Contains 30% Bio-based ingredients taken from plants such as non-food corn, sugarcane, etc.



For more information, please visit our official website.

02 Filament Fabrics

OWASTEX™/ Recycled Polyester & Polyamide from the Sea Waste & Oyster Farming



Recycled Polyester & Polyamide from Scraps



Eco-friendly fabrics



Waste cloth recycling



With the aim of enhancing the percentage of eco-friendly production, Formosa Taffeta reuses greige fabrics/scrap generated during fabric production in the granulation and spinning processes to produce polyester/polyamide fibers as materials for new greige fabrics, achieving a further promotion of internal circular economy in the Company. Since environmental value is a goal pursued by all industries, the eco-friendly polyester/polyamide yarns produced through greige fabrics/scrap recycling technologies has enabled Formosa Taffeta to move towards an advanced phase of "Remanufacturing - Zero Waste", which not only helps reduce natural resource consumption and environmental loads, and will also maintain the high-quality and high-performance of the fabrics produced by Formosa Taffeta.

Recycled Polyester & Polyamide from the Sea Waste & Oyster Farming



Marine waste recycling



Eco-friendly fabrics

Recycled Polyester from Ocean

In response to collaboration programs promoted by adidas and the INGO Parley for the Oceans, Formosa Taffeta uses the recycled plastic waste that caused pollution to the waters near Maldives, Sri Lanka, etc. to remanufacture raw yarns for eco-friendly fabrics. Besides PET bottles recycled from the land, the Company also utilizes recycled marine plastic to protect marine ecosystems.

Recycled Polyamide from the Sea Waste & Oyster Farming

In Taiwan, there are a large quantity of seawaste produced from oyster farming and marine waste such as discarded fishing nets, etc. from fishing activities. By recycling these marine waste items, a new recycled polyamide yarn product can be produced through processes of melting, dispersing, refining, and re-aggregation. The recycling and reutilization of marine waste is realized through enterprises' promotion and local fishermen's efforts by establishing channels for recycling to achieve the goals of marine ecosystems purification and resource consumption reduction. With the weaving engineering and dyeing/finishing technologies adopted in eco-friendly processes, Formosa Taffeta gives waste a new life by making it into brand-new eco-friendly fabrics.



O2 Filament Fabrics

BOOMETEX® Microfeel® SUN-ECO®

BOOMETEX  Eco-friendly fabrics

Recycled Polyester and Polyamide



Formosa Taffeta is committed to the development of various eco-friendly fabrics, including the polyester fabrics produced from waste PET bottles, waste polyester yarns, waste polyester products, etc., which can effectively reduce resource/energy consumption and CO₂ emissions, and are a type of new-generation green eco-friendly products. With the special processing technologies developed by the Company such as its PFOA/PFOS Free eco-friendly water repellent processing techniques (which comply with all the regulations instructed by Directive 2006/122/EC), the fabrics have achieved the functionalities of being waterproof, windproof, down-proof & breathable, moisture-permeable/moisture-absorbing and wicking, etc.

- Recycled nylon
- Recycled polyester



SUN-ECO®

Photocatalyst Anti-bacterial



Deodorizing



Antibacterial

- Excellent antibacterial effect: The fabrics can effectively protect against bacteria.
- Deodorization: The fabrics can effectively deodorize odors of ammonia (body odor, sweat smell), smoke, etc.
- Safety: The fabrics meet the Standard 100 by OEKO-TEX®, and cause no allergy.
- Applications: The fabrics can be used for sportswear, casual/recreation equipment, outdoor-sports-purpose textiles, down jackets, sleeping bags, and tents.



Microfeel® Microfiber fabrics



Comfortable Touch



Wicking

Microfeel® fabrics are woven with polyamide or polyester microfibers. The fiber fineness is less than 1/100 of the diameter of a human hair, with which soft touch can be provided. In addition, the excellent capillary effect in microfiber can be modified with moisture-absorption processing, making it an excellent moisture-absorbing and quick-drying material suitable for windproof, down-proof, waterproof breathable, and stretch fabrics.



For more information, please visit our official website.



O2 Filament Fabrics

Permacool® UVoutex® PERMAWARM® SNUGGTEX®

Permacool®
Cooling Fabrics



Cooling



Moisture-permeable and breathable



Permacool® cooling fabrics are produced by utilizing special cooling fiber materials, structural design, and high-level post-processing technologies. Fabrics of this series can create an instant cooling sensation when coming into contact with the skin with a Q-max value more than 0.17 W/cm². The fabrics also possess properties of rapid moisture absorption and quick drying, by which sweat can be quickly transferred from the skin surface to the outside of the fabric through wicking and diffusion to provide consumers with a cool and comfortable clothing experience.

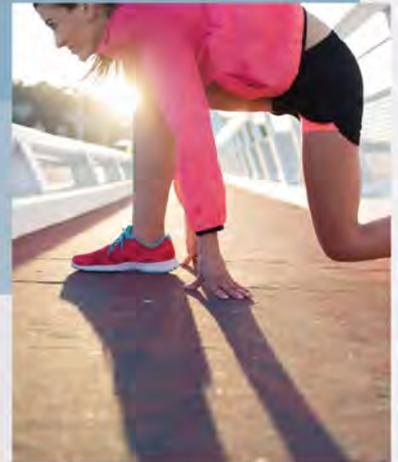
UV
outex®

UV-protection



UV protection

UVoutex® fabrics are made of special yarns through dyeing and finishing, which have excellent UV-shielding properties and can effectively block UVA (315–400 nm) and UVB (290–315nm). UVoutex® series products can provide excellent protection with the UPF value reaching 30–50+ (AZ/NZS 4399-1996 standards). The materials being used include polyester, polyamide, interwoven fibers, etc. The fabrics can be treated for other functionalities, making them the best fabrics for outdoor and sportswear.



PERMAWARM®

SNUGGTEX®

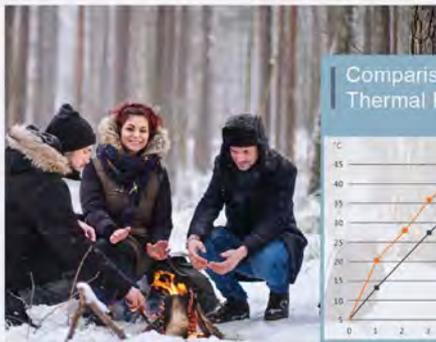


Thermal Insulation

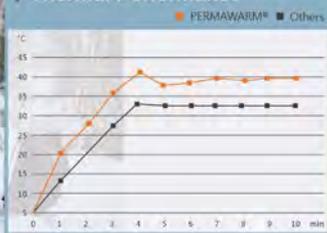


Lightweight

FIR Thermal Insulation



Comparison of Thermal Performance



PERMAWARM®/SNUGGTEX® far-infrared fast-heating & thermal insulation double-effect fabrics possess excellent energy conversion properties, by which natural light and heat can be converted into 4-14 microns far infrared with an emissivity higher than 80% to maintain long-duration thermal insulation. In addition, the fabrics are lightweight, moisture-permeable, and breathable.

O2 Filament Fabrics

COMOFIT® abletex® FONEWR Nano®

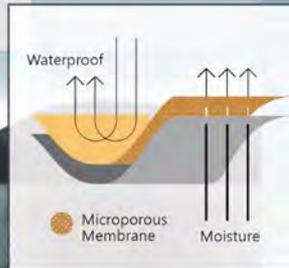
abletex®

Moisture-permeable waterproof

 Waterproof

 Moisture-permeable and breathable

The moisture-permeable waterproof fabrics abletex® is made by laminating high-tech hydrophilic, microporous waterproof, moisture-permeable PU membranes and various substrates. Products of this series possess water repellency over 10,000 mm H₂O and moisture permeability over 10,000 g/m²/24hr, and are a type of new-generation, durable, high-performance, moisture-permeable waterproof product.



COMOFIT® Nylon Mechanical Stretch Fabric

 High Power Stretch

 Comfortable Touch



Comparison of Fibers

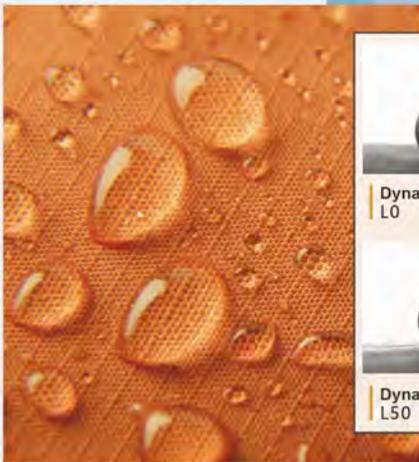
Formosa Taffeta's COMOFIT® is a type of high power stretch polyamide fabric which does not contain Spandex, but are stretchy with good elasticity (the elasticity rate can be controlled between 15-40%), and can provide a comfortable and fluffy texture to help wearers feel comfortable when moving. The fabrics can be processed for other functionalities and used for various clothing.

FONEWR Nano®

Durable Nano Water Repellent

 Washable  Easy care

The FONEWR Nano® fabrics are produced based on nano technologies. This type of self-cleaning fabric possesses nanostructured surface and properties of ultra-durability, strong water repellency, oil repellency, and easy care. The fabrics can stay dry, clean, and comfortable when used for any activities.



For more information, please visit our official website.



O2 Filament Fabrics

Trans-Uno® AQUAOFF® Dope dyed yarn fabrics

Trans-Uno®

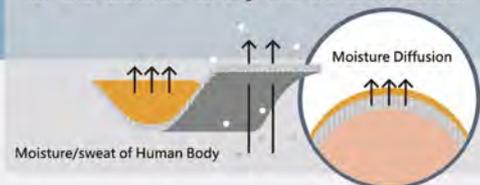
One-way moisture transfer fabrics

 Moisture-permeable and breathable

 Quick-drying



The polyester/polyamide one-way moisture transfer fabrics can allow more than 80% of the sweat to quickly diffuse from the inner to the outer side of the fabric, reducing the stickiness and discomfort caused by wet clothes, and stay dry and comfortable. Moreover, since sweat is unidirectionally transported to the outer side of the fabric and directly exposed to air, the time needed for the clothes to dry will be shortened.

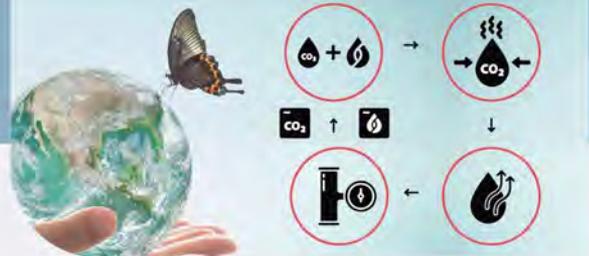


AQUAOFF®
Supercritical CO₂
Waterless Dyed

 Water/Energy Saving

With the aim of achieving sustainable green production and providing customers with products produced from energy-saving, carbon-reducing and eco-friendly processes, the Company has invested in the development of supercritical CO₂ waterless dyeing technologies and the establishment of relevant production equipment. The benefits of supercritical CO₂ waterless dyeing products include:

- 1.No water-resource consumption.
- 2.No wastewater discharge.
- 3.Reduced CO₂ emission.
- 4.No need to use dyeing auxiliaries
- 5.Energy saving.(The heating process during dyeing uses less energy, and there is no need to dry after dyeing)



Solution dyed yarn fabrics

 Water/Energy Saving

 Recycled Polyester,
Recycled Polyamide

FORMOSA TAFFETA upholds the concepts of environmental protection and sustainability, and is committed to developing eco-friendly products. Solution dyed can reduce water consumption, wastewater generation, off gas emissions, and energy consumption in the dyeing and finishing processes, which greatly alleviates the burden and damage to the environment.



O2 Filament Fabrics

Downproof by Consturction Ultra-lightweight functional Umbrella

Downproof by Consturction

 Downproof  Water repellent

 Moisture-permeable and breathable

Functional down-proof fabrics emphasize the prevention of down leaking and a smooth textural touch. By using advanced polyamide and polyester microfibers and other materials, Formosa Taffeta produces downproof fabrics with high-density and a breathable structure based on its fabric design and unique weaving, dyeing, and finishing technologies and experiences accumulated for many years. In addition to excellent down-proof effects, the fabrics also possess breathable, moisture-permeable, soft, lightweight, and other properties.



Ultra-lightweight functional fabrics

 Lightweight  Windproof

 Waterproof  Downproof



The ultra-lightweight fabrics of this series are produced by using ultra lightweight polyamide or polyester materials and employing unique weaving and dyeing technology. With high-quality finishing processing procedure, the fabrics can be given single or multiple functionalities such as windproof, waterproof, super water repellence, downproof, etc., and can be applied in ultra-light weight wind-breaker, down jackets, sleeping bags, etc.

Umbrella fabrics



Umbrellas for both parasol and rain

- Yarn dyed double-sided plaid: Dye the warp and weft yarns first, then follow the color design to arrange the yarns and weave them into different plaid patterns.
- Jacquard/Dobby: Weave various flower patterns on fabric surfaces through the combination of different structures and patterns. Then use different materials for single-bath dyeing and cross dyeing to make the woven patterns more prominent.
- Fashion printing fabrics: Flat printing, roller printing, reflective printing, paper transfer printing, one-piece umbrella fabric printing, metallic gold/silver printing, floating water printing, and photochromic printing are printing techniques that use different pattern plates to separately print different colors on fabrics to form beautiful patterns. Formosa Taffeta also provides digital printing services by using high-speed computers to print patterns directly on fabric surfaces. The patterns can be displayed in a more detailed and clear way, and can be comparable to color photos.



For more information, please visit our official website.

03

SCHOELLER TEXTIL AG SCHOELLER ASIA CO., LIMITED

FORMOSA TAFFETA has built a strong collaboration relationship with Schoeller Textil AG, a high-tech textile manufacturer headquartered in Switzerland. Schoeller Textil AG was founded in 1868, and is composed of textile companies specializing in advanced textile technologies and supplying specific fabrics for sportswear, casual wear, fashion clothes, and protective clothing with their innovative textile products and technologies. Formosa Taffeta has maintained a well-established relationship with Schoeller through technical, manufacturing, and licensing collaboration for the production and marketing of various state-of-the-art high-performance functional fabrics. With its deepened partnership with Schoeller, the Company can provide products for downstream manufacturers to produce garments with more advanced functionalities and smart properties.



For more information, please visit our official website.

03 Schoeller Asia Fabrics

Schoeller® c_change™ Schoeller® 3XDY® Bio

Schoeller® c_change™

Smart Waterproof Breathable fabrics

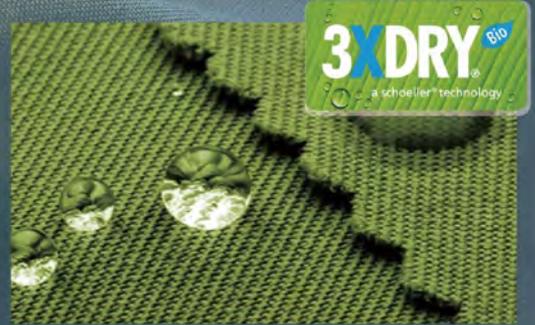


Smart Adjustment



Waterproof

c_change™ is a type of waterproof and breathable technical fabric developed by imitating phenomena observed in natural ecosystems. It can automatically adjust the release of moisture based on the external environment and the micro-climatic condition inside the clothes for the body to maintain constant comfort. c_change™ smart functional fabrics can provide functionalities such as waterproof, wind-proof and smart-adjustment, and are suitable for all kinds of outdoor wear, casual wear, sports jackets, coats, etc.



Schoeller® 3XDY® Bio

Eco-friendly Functional Wicking



Quick-dry



Moisture-permeable and Breathable

3XDY® is a type of state-of-the-art, high-tech fabric designed for comfortable sports/casual wear jointly produced by the Company and Switzerland's Schoeller Textil AG through technical collaboration. The 3XDY® products can provide unimaginable comfort. Fabrics of this brand can effectively absorb a large amount of sweat, and quickly and easily transfer sweat off the body through the fabric's breathability for the body and skin to maintain dry and comfort. The fabric's outer layer has excellent water and dust repellency that can stop the penetration of rainwater. Applications: The fabrics can be used for shirts, casual trousers/shorts, jogging suits, fashion clothes, etc.



schoeller

Schoeller® c_change™ / Schoeller® 3XDY® Bio / Schoeller® keprotec® / Schoeller® dynatec
Schoeller®- nanosphere® / Schoeller®- ecorepel® Bio / Schoeller®- aerobrane™ / Schoeller®- PROEARTH™

03 Schoeller Asia Fabrics

Schoeller® - dynatec Schoeller® - keprotec® Schoeller® - nanosphere®

Schoeller® - dynatec Anti-abrasion fabrics



Abrasion-resistant



Anti-slip



Tear-resistant

Schoeller®-dynatec is a type of state-of-the-art protection-oriented fabric jointly developed by the Company and Switzerland's Schoeller Textil AG through technical collaboration. Fabrics of this series are designed particularly for motorcyclists to provide bikers with complete and comprehensive protection. With the excellent abrasion-, tear- and slip-resistance of the high-tenacity fibers used, Schoeller®-dynatec fabrics can help minimize the extent of personal injuries. The major properties of Schoeller®-dynatec fabrics are tear-resistant, anti-abrasion, durable, and easy to care. The products can be widely applied in mountaineering gear, backpacks, motorcycle suits, racing overalls, sports shoes, and all kinds of personal protective clothing and accessories.



Schoeller® - keprotec® Durable Anti-abrasion



Tear-resistant



Breathable



Anti-abrasion

Keprotec® can provide the best protection for motorcyclists and people engaged in extreme sports with bulletproof high-tenacity KEVLAR® fibers added into the fabrics. The fabrics possess significant tear- and abrasion-resistance, and are highly breathable and heat-dissipating. Wearers can feel the freedom and agility brought by Keprotec® when engaged in sports activities. Applications: Protective work clothing, motorcycle suits, and ski suits.



Schoeller® - nanosphere® Nano Water Repellent



Comfortable Touch



Contaminant-resistant

The development of this technology was inspired by the extremely superior water repellency and self-cleaning functionality observed from lotus leaf surface. Such effects come from the microstructure and nanostructure of the leaf surface. The water-repellent nanotechnology developed by Schoeller-FTC® based on the lotus effect can provide extremely superior water repellency, oil repellency, decontamination functionality, excellent touch texture, and durable washability. Applications: Fashion clothes, sports/casual wear, mountaineering suits, sleeping bags, down jackets, etc.



03 Schoeller Asia Fabrics

Schoeller® - ecorepel® Bio Schoeller® - aerobrane™ Schoeller® - PROEARTH™

Schoeller® - ecorepel® Bio Eco-friendly Water repellent

 Water Repellent

 Contaminant-resistant

This technology imitates the feathers of water fowl whose oils are produced to create a water repellent effect when the birds leave the water. This type of fabric uses biodegradable substances such as spiral fluorocarbon-free, straight-chain alkane to form a membrane on fabric surfaces which lowers surface tension, through which the water repellence and decontamination effects can be created. The fabrics meet the Standard 100 by OEKO-TEX®, and are suitable for natural and man-made fiber textiles. Applications: Sports/casual wear, outdoor wear, etc.

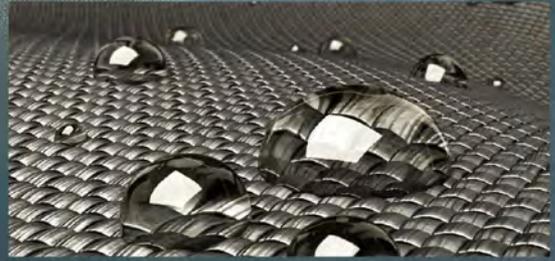


Schoeller® - PROEARTH™ Eco-friendly biodegradable

 Eco-friendly fabrics  Waterproof

 Downproof

This type of fabric is produced by adding special substances into the eco-friendly recycled polyester fibers during the polymerization and spinning processes. Clothes made with such fabrics, which are wicking, waterproof and down-proof, can maintain their fresh new look when placed in wardrobes even for a long time, but will fully decompose after being buried in soil for a few years. This is because the various anaerobic bacteria in the soil will eat up the added special substances, by which the fibers' chemical structure will be broken and the fabric itself will be decomposed into carbon dioxide, methane, and a small amount of microbial waste (bio-mass or rich soil), thus this type of fiber plays an important role in environmental protection and waste reduction.



Schoeller® - aerobrane™ E-spinning membrane waterproof breathable

 Waterproof

 Moisture-permeable and breathable

This fabric is a new-generation waterproof and moisture-permeable laminated product. Through a unique electrospinning process, nanofibers are extracted and layered into thin membranes, on which ultra-fine pores are formed to prevent rainwater from entering but allow a large amount of evaporated sweat to be quickly released. Compared with other waterproof breathable membranes, its weight is only 1/3 of that of conventional ones, and thus is lighter and softer. But its relative moisture-permeability has been enhanced several times, and the dry feel is thus improved. The comfort and functionalities provided by the fabric are greatly improved, making it suitable for a variety of fashion clothes or outdoor wear. It can be regarded as a type of revolutionary waterproof breathable functional fabric for outdoor activities.

04 Functional Spun Yarns

BODYTEK®

04

2nd BUSINESS
SEGMENT
PRODUCTS

| Functional Spun Yarns

The main processes of spun yarn products include twisting, weaving, impregnation, packaging, etc. The Company conducts strict quality control by using the most advanced equipment and testing/laboratory instruments introduced from Germany, France, Switzerland, Japan, etc., to ensure product sturdiness and durability. The products have been widely used by well-known tire manufacturers around the Asia-Pacific and other regions. In addition, the Company is ISO certified, and its products are all trusted by customers. Various spun fiber raw materials can be provided as requested and ordered for customers to develop a variety of diversified, innovative, and high value-added products. The main products include general conventional raw materials: cotton, rayon, acrylic, polyester, etc., as well as various BODYTEK® series functional yarns. The yarn counts range from 10s to 80s for weaving and knitting.

BODYTEK

BODYTEK® functional spun yarns include five main series products produced with multi-type machinery/equipment (ring spinning, MVS, compound-type spinning, etc.). A complete range of raw material fibers are provided, and yarns can be combined in various ways to meet customers' exclusive specifications.

Well-being Category

- **Soft Touch** | Tencel™, Modal, Dralon, Polyamide spun fiber, Fine denier polyester fiber, Viloft
- **Thermal Insulation** | Light-absorbing, heat-generating polyester, carbon nanotube (white), far infrared & anion dual-effect fiber, volcanic rock fast-heating fiber, hollow polyester fiber, Thermolite®, wool, graphene fiber
- **Cooling & temperature reduce**
Cooling rayon, cooling polyamide, Cupro, graphene
- **Lightweight & Texture**
Fine denier polyester fiber, Micro Tencel™, Micro Modal, Micro Acrylic, Natural silk
- **Wicking & Quick dry** | Y-shape-cross-sectional, X-shape cross-sectional, MVS, Coolmax®, Pentas™ α
- **Temperature adjustment**
X-Static®, Clima
- **Lint-resistant** | Circular cross-sectional, Y-shape cross-sectional, X-shape cross-sectional, hollow, MVS
- **Moisture-absorbing & Heat-generating** | Sunburner

O4 Functional Spun Yarns

Comfort / Health / Protection / Environmental Protection / Fashion

Health Category

- **Antibacterial & Deodorizing** | X-Static®, Smartcel™, Germanium element, Carbon nanotube (white), Tea carbon fiber, XT2®, Bact-free, Bamboo rayon, Silver-copper-titanium fiber
- **Moisturizing & Skin Care** | Seacell™, Soybean protein fiber, Umorfil® (Collagen), Skincare (Vitamin E)
- **Circulation promotion** | Germanium element, Far infrared & anion dual-effect fiber

Protection Category

- **UV-protection** | UV-protection polyester, UV-protection rayon
- **Fire retardant** | Flame-retardant polyester, flame-retardant rayon, flame-retardant acrylic, Nomex®
- **High-tenacity** | Kevlar®, High-tenacity polyester, high-tenacity polyamide, Cordura®, Dyneema®
- **Conductive & Anti-static** | X-Static®, stainless steel fiber, copper fiber
- **Mosquito-repellent** | Protection, Bugnon

Fashion Category

- **Special appearance** | Rainbow Yarn, Nep Yarn, Snowflake Yarn, Composite Yarn
- **One-bath dyeing varieties** | CD polyester, Rainbow Yarn
- **Hardware** | Low melting point polyester
- **Other Applications** | Stainless steel fiber, copper fiber

Environmental Protection Category

- **Natural & Organic** | Organic cotton, BCI cotton, hemp, flax
- **Environmental Protection** | Recycled polyester, recycled polyamide, antimony-free polyester, biodegradable polyester, EcoVero eco-friendly rayon, Refibra eco-friendly Tencel
- **Energy saving & Carbon Emission Reduction** | CD polyester, low melting point polyester
- **Bio-based Materials** | Sorona®



For more information, please visit our official website.

05 Special Fabrics

NEGA-STAT® KEVLAR® NOMEX®

2nd BUSINESS
SEGMENT
PRODUCTS

Dustproof Anti-static Fabrics

NEGA-STAT® Conductive Yarn is manufactured by Barnet USA.

- The inner core is a type of highly conductive carbon black compound covered with polyester fiber materials.
- Carry out precise weaving, dyeing, and processing at the customer's request
- Block dust particles produced by the human body from embedding in the fabric

Bulletproof Composite Fabrics

KEVLAR® bulletproof composite fabrics are woven with DuPont's registered-trademark high-tenacity fibers.

- Woven with DuPont KEVLAR® 600D, 1000D, 1500D, 2820D
- Passed NIJ 0101.04 IIIA ballistic test and NIJ 0115.00 anti-stab test.
- Applications: Ballistic vests, helmets, shields, anti-stab clothing, etc.

Fire retardant fabrics

NOMEX® fire retardant fabrics are woven with DuPont's registered-trademark fire-retardant fibers.

BLAZOUT® is the brand of fire-retardant fabrics produced by FTC.

- The fabrics are woven with yarns formed by commingling several kinds of primary fire-retardant and anti-static materials such as Aramid/Modacrylic/FR Rayon/Anti-Static fiber, etc.
- Passed NFPA 2112, NFPA70E ARC and EN ISO 11612 tests.
- Applications : Clothing for oil workers, flight suits for air force flight crews, tanker jackets, firefighter suits, arc flash protective suits, etc.

05

Special fabrics

CORDURA® Personal Protection Kit Water Jet Suits Protective clothing against molten metals

| POLYAMIDE 66 Abrasion-resistant Fabric

- Formosa Taffeta uses the high-tenacity anti-abrasion fabric made of INVISTA's CORDURA® 500D and 1000D yarns.

| Personal Protection Kit

Plan a no-worries, safe, and healthy trip for you with NEGA-STAT® protective clothing and Nomex® fire-retardant storage bags.

- The protective windbreaker is made of micro polyester fabrics.
- The protective windbreaker is water-washable and reusable.
- The Nomex® fire-retardant storage bag can be used as an emergency escape hood.

| Water Jet Suits

Water Jet Suits - Aguaguard™ Water Jet Suit is a type of PPE (Personal Protective Equipment) (based on test principle GS-IFA-P15) worn by personnel who operate water jet equipment when doing rust removal work in barrels or tanks to protect them from being hurt by high pressure water jet when the water jet's safety measures fail.

- The lining is made of Kevlar® bulletproof fabrics.
- The outer layer is made of CORDURA+PTFE laminated fabrics.
- Provide protection against 1000 BAR water pressure on worksite.

| Protective clothing against molten metals

The Protective clothing against molten metals splash is specially designed to protect workers against the molten metal hazards around them. The product is made of primary fire-retardant fibers that provide superior protection against molten aluminum (D3) and molten iron (E3), and complies with EU's "EN ISO 11612" regulations for protective work clothing.

- The fabric is made by commingling several types of primary fire-retardant fibers such as FR Viscose/Wool/Aramid/ANTI-STATIC fibers, etc.
- The product complies with the EU's "EN ISO 11612" regulations on the protection against molten aluminum (D3) and molten iron (E3).
- Superior thermal protection, soft and comfortable hand feeling, and antistatic functionality.



06 Composites Plants

Packaging Materials



06

Packaging Materials

The Company uses high-density polyethylene (HDPE) as the main raw material to make various shopping bags, ultra-thin bags, produce roll bags, garbage bags, etc., with a monthly production capacity of 670 tons to supply products to well-known Japanese department stores, large supermarkets, convenience store chains, packaging material wholesalers, etc. The processes of blown film, printing, hemming, sealing and cutting, packaging, etc. are all done through mechanized and automated systems, based on which stable and excellent quality is achieved. ISO 9001 certification has been obtained.



For more information, please visit our official website.

PE Plastic Bags

2nd BUSINESS SEGMENT PRODUCTS



Garbage Bags

The film has the features of high tensile strength and strong seal strength, and is thus suitable for shops that need to package heavy items.



- Stable quality
- A wide range of specifications

O6 Composites Plants

Produce roll bags / Ultra-thin bags / Shopping bags / Garbage bags



Shopping Bag

Use HDPE and bio-based HDPE raw materials to produce high quality T-shirt bags.

- Use HDPE as raw materials
- High-quality T-shirt Bag
- Packaging for department stores and food shops



Produce roll bags

The bags can be used to pack fresh produce in a quick way. They are easy and convenient to use, suitable for a variety of packaging needs, and can keep products fresh and easy to use.

- Packaging for fresh vegetables/fruit and food
- Non-toxic; high strength
- Product packaging



Ultra-thin Bag

The thickness is less than 5 μ m; thus, the use of plastic can be reduced, good prices can be offered and eco-friendliness can be achieved.

- The thickness is less than 5 μ m
- Plastic use is reduced
- Inner bags for fresh produce

O6 Composites Plants

Plain & Twill Carbon Fiber Fabric / Unidirectional Carbon Fiber Prepreg



Plain & Twill Carbon Fiber Fabric

Carbon fibers can be interwoven with other fibers to form hybrid fabrics. DuPont Kevlar® fibers have a lower density and better impact strength than carbon fibers. Can come in yellow, black, red, blue, orange, or champagne gold colors. The carbon-interwoven hybrid fabrics can be used as an outer surface material with enhanced impact strength and decreased weight, and can be applied in bicycles, automobiles, aerospace-related goods, sports goods, and electronics products.



Unidirectional (UD) Carbon Fiber Prepreg

The Hot Melt Prepreg is produced by making unidirectional fibers or fabrics pass through an impregnation machine to form a resin film, on which the resin's partial (B-stage) reaction will take place. The weight range of the FTC's unidirectional carbon fiber prepregs is 50-250g/m², and the epoxy resin has a Tg of 130 °C, 150 °C, and 250°C, which complies with UL 90V0 flame resistance and impact resistance standards. The carbon fiber modulus specification can be 24T, 30T, or higher, and the fibers can be applied in electronics products, wind turbine blades, automobiles, bicycles, and sports goods.



For more information, please visit our official website.

O6 Composites Plants

Carbon Fiber Multiaxial Non Crimp Fabric (NCF) / Carbon Fiber Retrofit Fabric / Thermosetting and Thermoplastic Carbon Board / Carbon Boutique Business Card Holder / Wallet/ Belt



Carbon Fiber Multiaxial Non Crimp Fabric (NCF)

The multiaxial weaving loom has multiple layer options (2, 3 or 4 layers) and angle options (0, +45, -45 and 90 degrees). It can also provide the yarn spreading function to allow the weight of a single layer to be as light as 75g. Applications: Ships, wind turbine blades, industrial/automobile components, etc.



Carbon Fiber Retrofit Fabric

The Carbon Fiber Retrofit Fabric (earthquake-resistant unidirectional carbon fabric for reinforcement) is available in 200g and 300g specifications. The fabric is woven with 12K carbon fibers, with a fiber modulus of 36 Msi and a strength of over 700 Ksi. Compared with steel plate bonding reinforcement, fiber composites are lighter in weight and will not increase significant load to the structure. They demonstrate good fatigue resistance, provide longer earthquake-resistance duration, and can improve the flexural strength and resilience of the structure. The fiber composites comply with the reinforcement regulations applicable in various countries, and are perfectly compatible with epoxy resin.



Thermosetting and Thermoplastic Carbon Board

The thickness of the thermosetting and thermoplastic carbon boards ranges from 0.25 mm to 5.0 mm, and specific thicknesses and the dimensions can be made to the customer's specifications. 1.5K/3K/12K or UD carbon fibers can be made into plain, twill, or hybrid fabrics with a glossy or matte surface. The surface is neat and can be directly applied in electronics products, automobile components, wind turbine blades, shoe materials, bags, etc., for which no further coating is required.

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PRODUCTS



Carbon Boutique Business Card Holder/ Wallet/ Belt

The FTC Carbon Boutique Belt is a patented product (Taiwan Patent NO. M427027). The belt buckle is entirely made of carbon fibers. The FTC Carbon Fiber Wallet and Business Card Holder are made through a special patented technique (Taiwan patent NO. M523576) by using a type of soft twill 3K carbon fiber leather material with sewable three-dimensional texture made of carbon fibers and plastic. A type of electromagnetic shielding conductive fabric is used for the lining. With the dual electromagnetic shielding effects provided by carbon fibers and the conductive fabric, it can effectively prevent a credit card or electronic chip in the wallet from being remotely accessed.

07 Cord Fabrics

Tire cord/Interliners, Conveyor Duck, Conveyor Belts/Anti-puncture fabric/Chafer Fabric/etycord

07 Cord Fabrics

Tire cords are made of synthetic fibers through the processes of twisting, weaving, impregnation, etc., and can be used as reinforcing base fabrics for tires of bicycles, motorcycles, cars, trucks, industrial/agricultural vehicles, etc.

Nylon 6

Description	210D/1	420D/1	630D/1	840D/1	1260D/1	840D/2	1260D/2	1680D/2	1890D/2
Breaking Strength (Kg)	1.9	3.8	5.8	7.8	11.6	14.5	21.8	29.0	32.7
EASL (%)	11.0	11.0	11.0	11.0	11.0	8.5	8.5	8.5	8.5
Hot Air Shrinkage (%)	3.0	3.0	3.0	3.0	3.0	5.5	5.5	5.5	5.5
Gauge	0.13	0.25	0.28	0.35	0.42	0.55	0.66	0.76	0.82

Nylon 66

Description	210D/1	420D/1	630D/1	840D/1	1260D/1	840D/2	1260D/2	1680D/2	1890D/2
Breaking Strength (Kg)	1.9	3.8	5.8	7.8	11.6	14.5	21.8	29.0	32.7
EASL (%)	11.0	11.0	11.0	11.0	11.0	8.5	8.5	8.5	8.5
Hot Air Shrinkage (%)	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0
Gauge	0.13	0.25	0.28	0.35	0.42	0.55	0.66	0.76	0.82

Polyester

Description	1000D/2	1300D/2	1500D/2	2000D/2
Breaking Strength (Kg)	14.5	18.9	21.8	29.0
EASL (%)	4.5	4.5	4.5	4.5
Thermal Shrinkage (%)	1.7	1.7	1.7	1.7
Gauge	0.55	0.63	0.66	0.80



For more information, please visit our official website.



Tire Cord

Reinforcing base fabrics for tires of bicycles, motorcycles, cars, trucks, industrial/agricultural vehicles, etc.

- Provide tires with dimensional stability, strength, rigidity, controllability, and durability.
- Applications: Bicycle tires, motorcycle tires, car tires, tires of agricultural/industrial vehicles, off-road vehicle tires, aircraft tires, etc.

Liner, Conveyor Duck, Conveyor Belt

1.Liner: used to prevent the glued yarns from adhering after calendaring and cutting, and to prevent the glued upper and lower tire surfaces from sticking together.

2.Conveyor Duck: used as a base fabric that backs the conveyer belt.

- Provide conveyor belts with dimensional stability, strength, rigidity, and durability.
- Liners can help curled parts stretch.

Anti- puncture fabric

Prevent bicycle tires from being punctured or cut.

- Improve bicycle tires' puncture resistance.
- The fabric can be applied in bicycle tires.

2nd BUSINESS
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Chafer Fabric

Chafer fabrics are used in tire bead and the part where tire shoulder connects to wheel rim.

- Enhancing the tire bead's hardness and transfers the friction onto the wheel rim, providing protection to the tire bead.
- The fabric can be applied in tire products.

etycord Eco-Friendly Tire Cord

Using recycled nylon and polyester to produce tire cord fabric and anti-puncture fabric for bicycle use.

- rN6: Post consumer ocean nylon waste and oyster string.
- rN66: Pre consumer scrap nylon waste.
- rPET : Post consumer recycled polyester bottle flake.



O8 Petroleum Business

92, 95+, 98 unleaded petrol / Super Diesel / Exquisite Car Wash



2nd BUSINESS
SEGMENT
PRODUCTS



| FTC Petrol Sta

FTC Petrol Station uses petroleum products and provides services such as monthly billing for users and reduced car washing machines to provide excellent service to customers.



92, 95+, 98 unleaded petrol / Super Diesel / Exquisite Car Wash

08 Petroleum Business

The Petroleum Business Department was established in August 1997.

The Company provides services to the public based on the spirit of "Harmony, Innovation, Service, and Dedication" and "Customer First • Quality Guarantee • Service First." FTC Petrol Station has continued expanding since it was established. Currently there are 105 stations set in Taiwan, leading to FTC Petrol Station being listed in the top five fuel distribution channels in Taiwan for many years. By emphasizing personnel's educational training and giving importance to public safety, quality services and standardized management, FTC Petrol Station provides convenient and reliable petrol services for consumers.

tion

cts provided by FPCC' refinery plants, and offers
The FTC Petrol Station chain has also intro-
excellent quality SPA car wash services for



Customer First • Quality Guarantee • Service First

For more information, please visit our official website.





R & D CENTER


R & D CENTER

ESG Sustainable Management Strategies

Friendliness

Uphold a spirit of eco-friendly, realize green production, and implement various environmental protection measures.

Technology

Facilitate steady operational growth through innovative technologies, and carry out sustainable business management.

Care

Continue social and employee care to move towards a wonderful future.

Vision

With the constant growth brought on by efforts in innovation, the Company has become a diversified, professional, and globalized manufacturer, supplier, service-provider, and investor, and is a good partner that can support customers' business development. With advanced research and development bases and high-tech products, we can provide various solutions to meet customers' needs. Moreover, our continuing growth coming from innovation has satisfied stakeholders' expectations, and has earned products users' loyalty and the public's respect. We also place great importance on the ecosystem and environmental protection in the hopes of bringing purity to the earth and a comfortable living environment to the next generation. Thus, Formosa Taffeta has become a reputable brand known for sustainable development in the industry and is customers' first choice.

Since 1973

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