



SMILY TEX
Design&Technology



SMILY TEX
Design&Technology



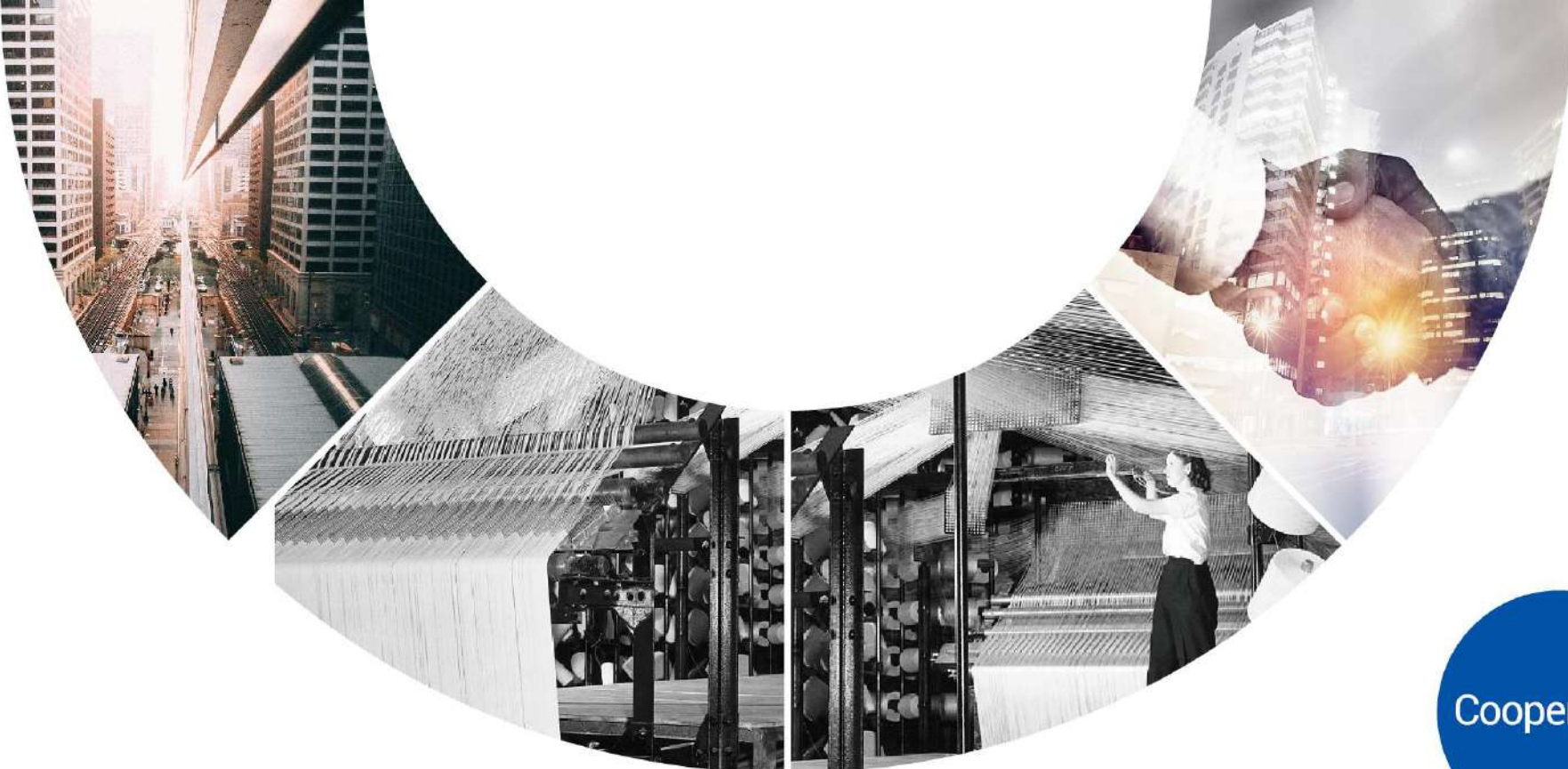
SMILY TEX
DESIGN&TECHNOLOGY



SMILY TEX
Design&Technology

Enjoy Your Fabric





Company

Introduction
Culture
Advantage

Product

Product
Introduction

Cooperation

Business Model
Contact Us



Smily Scientific Textile

Foothold In Textile



20+

Self-owned Pat-
ented Technology

Science Innovation

R& D, Design,
Manufacture

About Us

Smily Textile Technology (Taicang) Co., Ltd was established in 2017 with a registered capital of 6 million yuan. It is a trading company engaged in R&D and sales of functional fiber and functional fashion fabrics. It is an innovative technology enterprise integrating new product R&D, design and manufacture. We possess professional core R&D team and advanced scientific and technological concept, and we are dedicated to the R&D, design and resource integration of functional textile materials. At present, we own more than 20 core patented technologies including authorized invention patents, authorized utility model patents, design patents, et al.

The current business scope of our company covers: technology R&D and transfer, technical consultation and service in the textile field; wholesale and retail of clothing, apparel, sports equipment, fabric and accessories, textile materials; general road freight transportation and specific freight transportation (by tank); warehouse service (dangerous goods excluded); self-operation and agent of various commodities and the import and export of technologies (business experience restricted to be managed or commodities and technologies prohibited to be exported and imported are exceptions). (Items subject to approval are permitted to operate after approval from relevant departments)

We aim to build a smiley industry integration system for modern textile industry and concentrate on the R&D of innovative products. Shouldering the responsibility of being an authoritative brand of technological R&D, we offer the best solution for every fashion product user, and wholeheartedly assist the smiley development of fashion business.

CULTURE

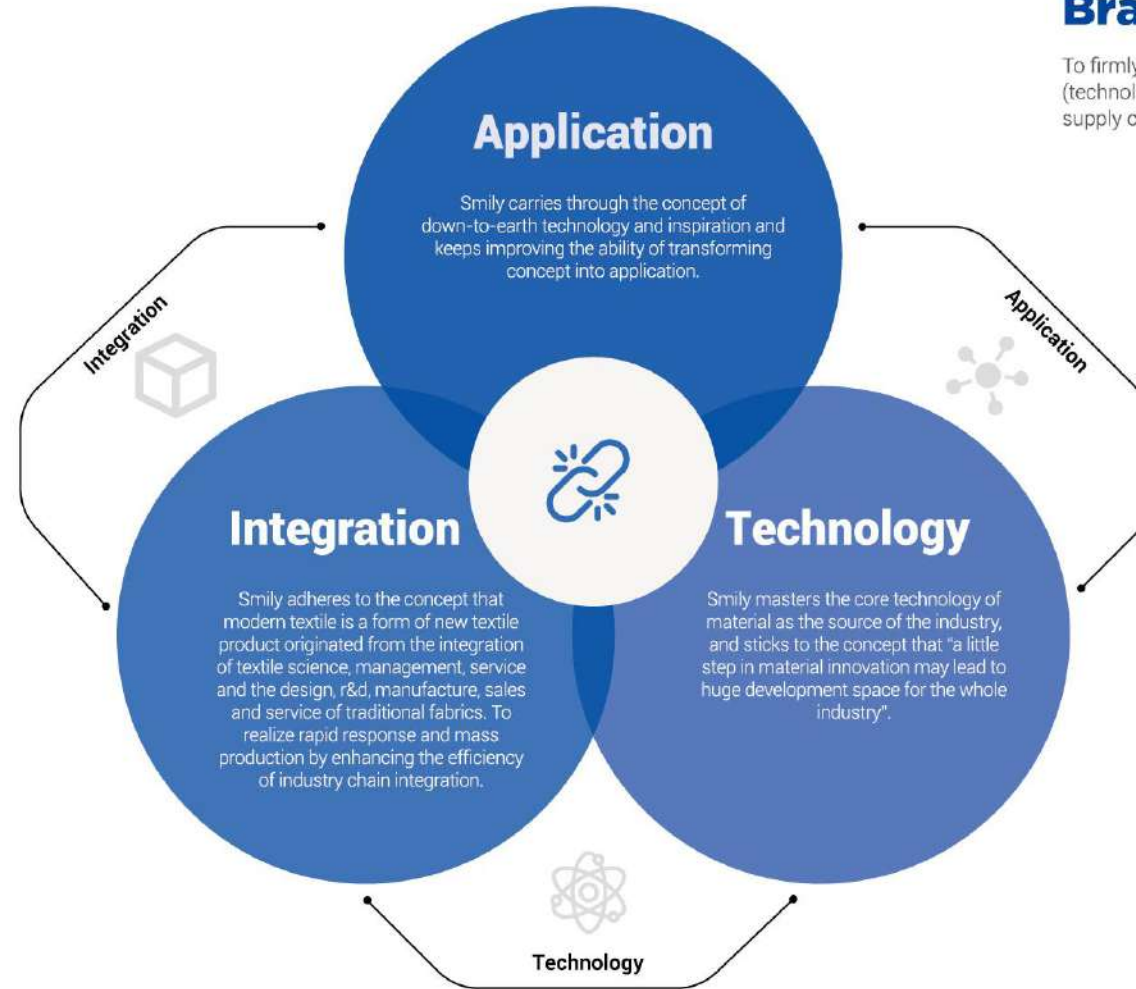
Mission

To offer inspiring and innovative solution to material fabric for every fashion product user

Vision

To become an authoritative brand of science fashion fabric R&D

Enjoy Your Fabric



Brand Story

To firmly connect the two ends of smile (technology and application) through supply chain integration capability



Professional Core R&d Team

Accurate grasp of the market demand;
the r&d and design ability of various
technologies in the supply chain.



Supply-chain Integration

Sufficient integration of key supply-chain
technologies and the technological and
manufacturing support of partners.



Rapid Response

Rapid response to product R&D;
trend-analysis response to small batch
and diverse terminal consumption.

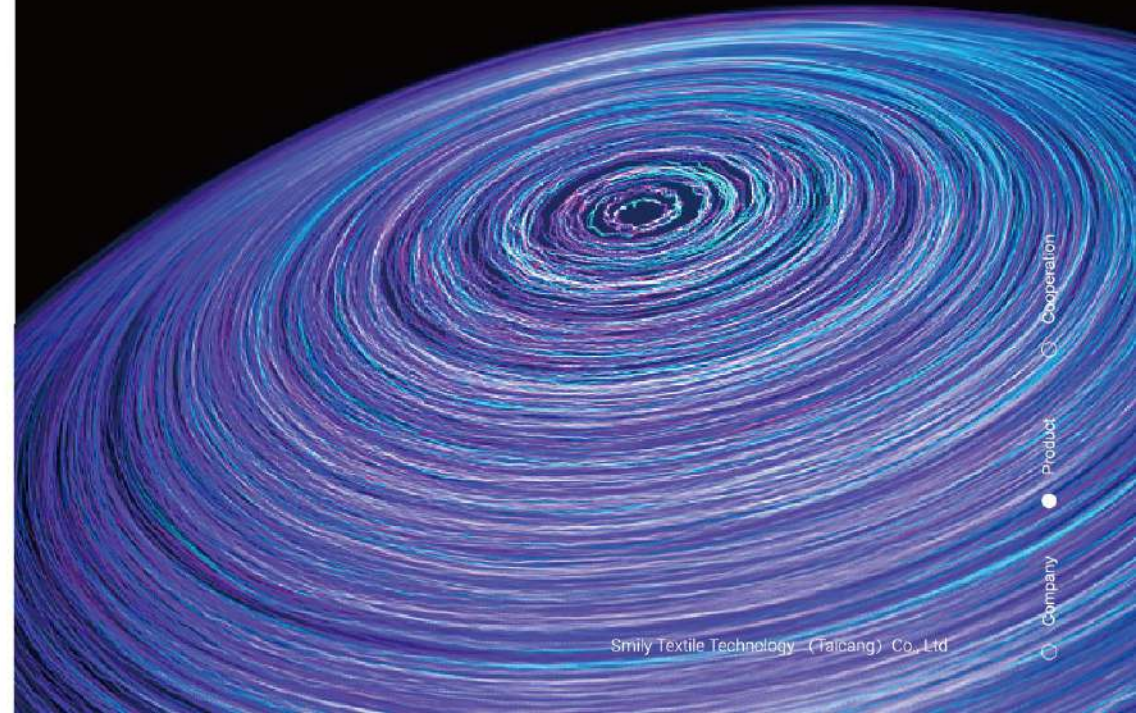


Own Core Patented Technology

8 authorized invention patents, 9
authorized utility model patents, and 8
design patents.



Research And Development



PRODUCT

Integration

Safe, healthy, comfortable, green

Product Concept

Smily adheres to advanced product concept, and creates value for customers and the society.

Production

Small batch, diverse, individual, customized and high value-added product route

Importance

Lifestyle changes; rational consumption

Product Category

Target at the needs of different customers, and the R&D of various fabric

Comfort Products

Smily adheres to advanced product concept, and creates value for customers and the society.

Product Features



Tactile Comfort



Physical Comfort



Fitted Pattern

Product Categories

Tactile comfort series
Moisture management series
Thermal management series



Comfortable



Green



Health

PRODUCT

Rimens®

Cotton-like

As a high simulation of pure cotton fabric, Rimens achieves all-round promotion both in visual sense and tactility. It integrates the strengths of both polyester fiber and pure cotton; high-efficient absorption and perspiration, dry and comfortable, new and well-shaped, wear-resistant and well-dyed. In a word, Rimens combines the comfort of cotton and the functions of polyester.



Cotton style



soft tactility and stable dimension



crease-resistant and efficient humidity adjustment



dry and comfortable

Orientation

Market Application



Sport



Leisure



Home textile

Product Specification

Varieties:

DTY Rimens/ ATY Rimens

Types:

Conventional Rimens/ Low Temperature and Dyeable Rimens/ Melange Rimens/ Dope-dyeing Rimens/ Functional Rimens

Specifications:

60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D

Product Features

Patent no: CN201110251232.0

Technical Principle

Employ self-developed modified polyester fiber with skin feel and luster, the special composite yarn texture enhances the fluffiness and comfort of the fabric.



Product Performance

A: Adopting the strengths of cotton and chemical fiber and avoiding their shortcomings.

Cotton

- > poor crease-resistance;
- > poor stretchability;
- > poor acid-resistance;
- > prone to crease and deform after washing;
- > loss of strength in chlorine bleach.

Cotton-like

- > high strength;
- > good humidity absorption;
- > soft and comfortable;
- > affinity for dye, a complete spectrum; colorful and lustrous;
- > good crease-resistance;
- > flexible and stable;
- > sunlight-resistance and wear-resistance; antibacterial;
- > chemical resistance.

Polyester

- > poor humidity absorption; poor air permeability;
- > hard and waxy feel;
- > poor dyeing property;

B: Skin-friendly: The surface of the fiber is processed into a fluffy shape by a special technique so that the ordinary surface contact between the fabric and the human body has become point contact.

C: Cotton form: Possessing the matte luster and soft tactility of high-quality cotton.

Luster

Introducing nano powders that improve the soft luster and applying a special technique to form cotton fiber with multiple sections and structures, possessing the soft luster of pure cotton.

Tactility

Possessing softer tactility than cotton fiber.

Thermal Retention

Using a special processing technology to form three-dimensional fluffy structure to preserve heat.

Icewel®

Modified cross-section fiber with high efficiency of air permeability; hydrophilic and water-directional; dry and comfortable; anti-UV; environmental friendly and energy saving.



Hydrophilic and water-directional



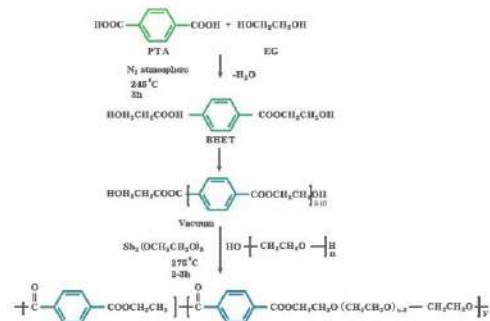
Anti-UV



Dry and comfortable



Environmental friendly and energy saving



Hydrophilic polyester molecular structural formula 2 (polyethylene glycol hydrophilic segment)

Orientation

Market Application



Sport



Leisure



Home textile

Product Specification

Varieties:
DTY Icewel

Types:
Wet Permeable and Quick-drying Icewel/ Melange Icewel/ Dope-dyeing Icewel/ Functional Icewel/ Renewable Icewel/ Cotton feel Icewel

Specifications:
60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D

Product Features

Technical Principle

By introducing a hydrophilic group into the conventional polyester segment, Icewel has excellent hydrophilic properties, therefore possessing the advantages of good hygroscopicity and wearing comfort of natural fiber. Compared with conventional polyester, its hydrophilic cross section has better water diffusion capacity, wet permeability and quick-drying capacity.

Product Performance

A: Safety and environmental friendly

- > Titanium catalyst employed; safe daily use of the fiber without any heavy metal;
- > Conform to the licensing standards for heavy metal content in credible textiles; passed the EU 2007/19 EC and the US FDA certification; conform to the safety and environmental friendly requirements; cleaner fiber.

B. Green and energy saving

Polymerization	Spinning	Dyeing and finishing
Compared with the general Polyester, highly hydrophilic material can save 2 kg oil and 6.3 MJ ingredients.	The drying temperature of hydrophilic material section is reduced by 5-10°C, and that of spinning is reduced by 5-15°C; the cycle of spinning accessories is prolonged twice.	Compared with the general Polyester, the dyeing temperature of hydrophilic material is lower by 5-10°C; available to boiling dyeing of 90-100°C or conventional disperse dye; the dye-uptake of 95°C dyeing exceeds 90%.

C. Hydrophilic and quick-drying

- > Compared with conventional cross-type polyester fiber, Icewel as hydrophilic material, better assists human body to perspire and to keep dry and comfortable.

D. Low temperature dyeing: the biggest cross-industry difficulty solved

- > The dye-uptake of 95°C dyeing exceeds 90%; up to the requirements of conventional dyeing;
- > Low temperature dyeing ensures the elasticity of spandex, and greatly improves the color stability and color fastness of spandex or nylon.

Swarin®

Far-infrared heat

Natural ore, far-infrared; thermal retention and heat insulation; long-lasting health protection.



Natural ore



Thermal retention and insulation



Long-lasting health protection



Far-infrared

Orientation

Market Application



Home textile



Sport



Underwear



Leisure

Product Specification

Varieties:
DTY Swarin (far-infrared heat)

Types:
Conventional Swarin/ Melange Swarin/ Dope-dyeing Swarin/ Cotton Feel Swarin/ Renewable Swarin

Specifications:
60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D.

Product Features

Technical Principle

Employ self-developed modified polyester fiber, add nano powders to absorb the far-infrared ray.

Test Standard

Evaluation system:

According to the detection and evaluation of the far-infrared performance of textiles GB/T 30127-2013, the far-infrared emissivity should be over 0.88, and the radiation temperature rise should be over 1.4 C/30s.

Test Report



Product Performance

The fiber fabric of Swarin can effectively preserve heat for human body, and alleviate the impact on comfort due to temperature change in the environment.

A

Swarin can absorb and reflect the far-infrared rays generated by the human body, so that the fiber itself can generate heat to make up for the loss of heat due to changes in the external environment, and to maintain the relative stability of body temperature.

B

Swarin applies biomimetic technology to mimic biometrics. Compared with general fiber, the fabric has a higher degree of hollowness and is therefore lighter and softer.

PRODUCT

Swarin®

Absorb Moisture
And Generate Heat

Efficient humidification;
Intelligent temperature-control.



Efficient humidification



Intelligent temperature-control

Orientation

Market Application



Underwear



Leisure



Sport

Product Specification

Varieties:

DTY Swarin (moisture heat)

Types:

Conventional Swarin/ Melange Swarin/ Dope-dyeing Swarin

Specifications:

16S, 21S, 32S, 40S, 60S

Thermal Management Series

Product Features

Technical Principle

Special fiber composite with strong moisture absorption and efficient heat transformation

> When the human body is static, the water evaporated from the skin is about 15g/m².h, mostly in a gaseous state; while in motion, a larger amount of sweat is discharged, both liquid and gaseous, and the amount is about 100g/m².h. The heat required for evaporation of liquid water lowers the body temperature. In contrast, when the gaseous water becomes liquid, a large amount of heat of condensation is generated. It is the morphologic change of water that has been taken advantage of by moisture heat fiber, which generates heat by transforming the perspiration to liquid, thus preventing the body from feeling cold.

Test Standard

Executive standard: FZ/T 73036-2010 moisture heat knitted underwear

(NO.)	Testitem	Unit	Standard	Result	Conducion	Remart
01	moisture heat temperature rise value (maximum)	°C	≥4.0	6.3	Qualified	---
02	moisture heat temperature rise value (average)	°C	≥3.0	3.0	Qualified	---

Test Report



Product Performance

Taking advantage of the heat generated from the transformation of perspiration to liquid, the product is able to prevent the body from feeling cold. While adjusting humidity, it can produce heat to keep the body comfortable.

Swarin®

Light-absorption Heat

Nano material added to absorb visible light; generate heat to keep warm; long-lasting health protection.



Nano material added



Visible light absorption



Heat generation to keep warm



Long-lasting health protection

Orientation

Market Application



Sport



Leisure



Underwear



Home textile

Product Specification

Varieties:

DTY Swarin (light-absorption heat)

Types:

Conventional Swarin/ Melange Swarin/ Cotton Feel Swarin/ Dope-dyeing Swarin/ Renewable Swarin

Specifications:

60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D

Product Features

Technical Principle

Nano-scale metal compound powders capable of absorbing visible light energy are added to the fiber, so that the fabric absorbs visible light (near-infrared rays) which are efficiently converted into heat energy absorbed by the body, thereby achieving the effect of heating.

- > Near-infrared light with a wavelength of 0.8-1.0um possesses the highest energy in the sunlight. Swarin can absorb nearly 80% of near-infrared rays and efficiently convert them into mid-range and far-infrared rays, in which the far-infrared rays with a wavelength of 6-14um can act on the human body and produce heat.

Test Standard

Functional assessment:

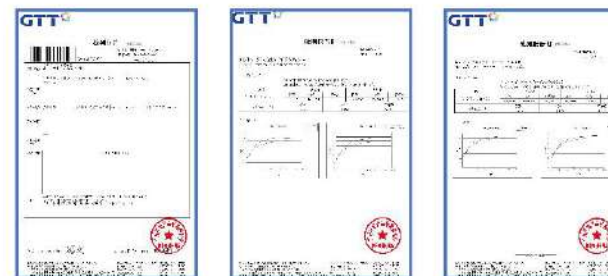
- > **Test item:** Temperature difference between the test sample and the control sample under the same light source.
- > **Test method:** ITS
- > **Functional parameter:** After being irradiated for 20 minutes at a 500w light source, the surface temperature of the test sample was 6°C higher than the control sample.

Item	Test Sample			Control Sample		
	Sample 1	Sample 2	Average	Sample 1	Sample 2	Average
Temperature rise value of 20 min(°C)	49.578	48.195	48.89	42.203	40.863	41.53
Temperature difference of 20 min(°C)	Test 1		Test 2		Average	
	7.391		6.745		7.07	

Calculation of temperature rise value:

Temperature rise value of 20 min = temperature at the 20th minute - original temperature
 Temperature difference of 20 min = temperature of test sample at the 20th minute- temperature of control sample at the 20th minute

Test Report



PRODUCT

Swarin®

Hollow Structure

Hollow section;
Light & comfortable



Hollow section



Light & comfortable

Enjoy Your Fabric

Orientation

Market Application



Leisure



Outdoor



Sport

Product Specification

Varieties:

DTY Swarin (light-absorption heat)

Types:

Conventional Swarin/ Melange Swarin/ Dope-dyeing Swarin/ Cotton Feel Swarin/ Renewable Swarin

Specifications:

60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D

Thermal Management Series

Product Features

Technical Principle

Employ self-developed highly-hollow polyester with a hollow degree of 30%-60%.

Test Standard

Evaluation system: warmth retention; heat transfer coefficient; CLO value.

(NO.)	Testitem	Unit	Standard	Result	Conclusion	Remark
01	Warmth Retention	%	---	51.00	---	---
02	Heat transfer coefficient	W/m ² · °C	---	9.100	---	---
03	CLO value	---	---	0.7100	---	---

Test Report



Product Performance

- › **Warmth retention:** The product is good at thermal storage and warmth retention, with special fiber structure to contain a great amount of air, to alleviate the intrusion of cold air and to reduce the loss of surface heat.
- › **Softness and comfort:** The 30% hollow structure successfully reduces the total weight by 25%-50%, offering the fiber better tactility.

Physcool®

Instant Cool Feeling

Nano-material; instant cool feeling; modified cross section; wet absorption and quick-drying; antibacterial and anti-UV.



Nano-material



Instant cool feeling



Antibacterial



Anti-UV

Orientation

Market Application



Sport



Business



Leisure



Home textile

Product Specification

Varieties:

DTY Physcool (instant cool)

Types:

Conventional Physcool/ Melange Physcool/ Dope-dyeing Physcool/ Cotton Feel Physcool/ Renewable Physcool/ Hydrophilic Physcool/ Antibacterial Physcool/ Anti-UV Physcool

Specifications:

60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D.

Product Features

Technical Principle

Employ self-developed special polyester fiber, add nano-scale fast cooling powders; special modified cross section.



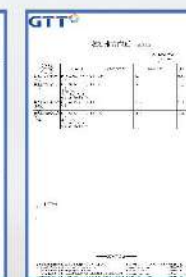
Test Standard

Evaluation system:

Test report (figure) GB/T8629

The maximum contact cool feeling of the fabric (Q-MAX) is above 0.23.

Test report



Product Performance

Fast cooling:

Contact cool feeling and modified cross section enlarges the skin contact area, strengthens the function of absorption and perspiration, rapidly lowers the surface temperature of the skin, and promotes the feeling of cool and comfort. The fabric is rich in trace elements and minerals, highlighting the cool feeling and comfort in the process of low-energy exchange with the circulating moisture in the air.

High-efficiency of absorption and perspiration:

The modified cross section enables wet absorption and quick-drying, thus keeping the body dry and comfortable.

Composite of multiple functions:

Facilitating multiple functions like antibacterial function, deodorization, and anti-UV function.

Anti-static electricity:

Compared with general chemical fiber, hydrophilic fabric possesses better anti-static electricity function.

Black Mirror®

Long-lasting Cool Feeling And Heat Insulation

Reflecting UV; constant cooling; healthy and comfortable.



Reflecting UV



constant cooling



healthy and comfortable

Orientation

Market Application



Sport



Leisure



Home textile



Outdoor

Product Specification

Varieties:
DTY Physcool

Types:
Conventional Physcool/ Melange Physcool/ Dope-dyeing Physcool/ Cotton Feel Physcool/ Renewable Physcool/ Hydrophilic Physcool/ Antibacterial Physcool/ Anti-UV Physcool

Specifications:
30D, 50D, 60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D

Product Features

Technical Principle

Modified cross section; employ self-developed special polyester fiber combined with nano-scale heat reflecting cool powders, anti-UV and anti-far-infrared nano powders to make the fabric heat-insulated. It enables wearers to keep their body surface temperature lower than those wearing conventional fabrics outdoors by 2°C.

Test Standard

Test item: Heat insulation test

Test method: Testing the temperature difference of the shady-faces between the test sample and the control sample under the same light source.

Test organization: Keken Co., Ltd. (Japan)

Test condition: 15-min-radiation at a distance of 50cm from a 500w light source.

Duration (sec)	Average of the surface temperature of the radiated object				
	heat-insulated fabric1	heat-insulated fabric2	control sample3	control sample4	
Initial stage	0	18.9	18.9	19.0	19.0
	30	24.8	24.6	25.3	25.2
	60	26.7	26.7	27.5	27.3
Under radiation (Light on)	120	28.7	28.8	29.5	29.4
	300	31.0	31.1	32.2	31.7
	600	32.7	32.9	33.9	33.7
	900	32.7	33.1	34.0	33.6

Product Performance

Fast cooling:

anti-UV; UPF 30+; better protective performance from UV and higher UPF than other anti-UV fabrics.

High-efficiency of absorption and perspiration:

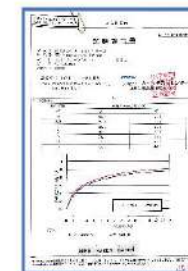
reflect the near infrared and heat; keep lowering the apparent temperature by 1-2°C (3.6 F) at high temperature.

Composite of multiple functions:

Compared with general fabrics, the product can lower body surface temperature by about 2°C despite different shades of the fabric.

Test report

Heat insulation test report by Keken (Japan)



Smily

Devoted to the R&D of new health products that are beneficial to human body based on humanism.



Comfortable



Health



Green

Health Products

Product Features



Antibacterial—organic and inorganic antibacterial



Bacteriostatic deodorization—coffee charcoal



Fatigue relief—anion

Product Categories

- Safe Antibacterial Series
- Bacteriostatic And Deodorization Series
- Fatigue Relief Series

Coolmous®

Highly-efficient Inorganic Antibacterial

Inorganic copper antibacterial; maintenance of beauty and youth; safe and highly-efficient.



Inorganic copper antibacterial



maintenance of beauty and youth



safe and highly-efficient

Orientation

Market Application



Sport



Leisure



Underwear



Home textile

Product Specification

Varieties:

DTY Coolmous

Types:

Conventional Coolmous/ Anti-UV Absorption and Perspiration Coolmous/ Dope-dyeing Coolmous/ Cotton Feel Coolmous/ Renewable Coolmous/ Hydrophilic Coolmous/ Deodorization and Perspiration Coolmous/ Anion Absorption and Perspiration Coolmous

Specifications:

30D, 50D, 60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D.

Product Features

Technical Principle

Three different combinations of modified polyester to meet the all-round requirements of customers.

- cupric ion
- zinc ion
- cupric-zinc ion

Test Standard

Test Item (Unit Of Measurement)	Test Method	Standard Value And Permissible Error	Test Result	Judgment
Antibacterial effect (AA grade)	FZ/T73023-2006, shaking method referred to appendix D; samples being washed for 20 times	Bacteriostasis Rate: Staphylococcus Aureus ≥ 80%; Colon Bacillus ≥ 70%; Candida Albicans ≥ 60%	Bacteriostasis Rate: Staphylococcus Aureus 99.67%; Colon Bacillus 99.22%; Candida Albicans 97%	Qualified
Dissolution rate (mm)	FZ/T73023-2006, as referred to appendix E; samples being washed for once	Width Of Inhibition Zone D ≤ 5	Staphylococcus Aureus D = 0, Colon Bacillus D = 0, Candida Albicans D = 0	Qualified

Product Performance

- **More stable:**

In-situ functional combination and blending production promise high dispersity and stability.
- **More comfortable:**

Copper material has the effect of bacteriostasis, protecting human body from barbiens caused by foot bacteria and from gynecological diseases resulting from fungus like candida albicans.
- **More economic:**

Lower cost; beneficial to more consumers; more convenient to use.
- **Antibacterial:**

With the increasing pressure upon urban white collars, sub-health is becoming universal among these workers, causing them to be of poor immunity and vulnerable to the harm of bacteria. Therefore, it is necessary to use fabrics with antibacterial function.
- **Maintenance of beauty and youth:**

Cuprum accelerates the growth of protein like collagen in human skin, thus protecting the skin from wrinkles. As active ingredients of SOD in cosmetics, cuprum can also keep the skin active, protecting it from spot or pigment and delaying its aging.

Test report



Coolmous®

Safe Organic Antibacterial

Organic antibacterial; Fresh and green; Safe and non-toxic.



Organic antibacterial



Fresh and green



Safe and non-toxic

Orientation

Market Application



Sport



Leisure



Underwear



Home textile

Product Specification

Varieties:

DTY Coolmous

Types:

Conventional Coolmous/ Anti-UV Absorption and Perspiration Coolmous/ Dope-dyeing Coolmous/ Cotton Feel Coolmous/ Renewable Coolmous/ Hydrophilic Coolmous/ Deodorization Absorption and Perspiration Coolmous/ Anion Absorption and Perspiration Coolmous

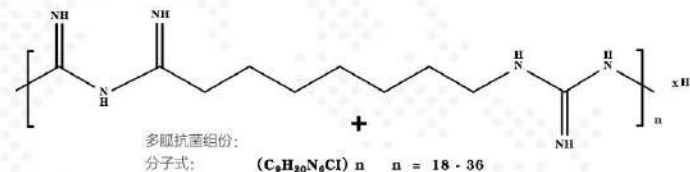
Specifications:

30D, 50D, 60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D.

Product Features

Technical Principle

Coolmous employs modified polyester combined with organic antibacterial agent master batch. Compared with low molecular organic antibacterial, macro-molecule organic antibacterial employed by Coolmous is more stable, non-volatile, easier to process and store, and of long service life. It hardly infiltrates into the skin surface of men or other animals. Besides, the antibacterial function of antibacterial polymer is obtained by introducing the functional group which enters the polymer through homo-polymerization or co-polymerization of functional monomers, or through stem grafting.



Test Standard

Test Item (Unit Of Measurement)	Test Method	Standard Value And Permissible Error	Test Result	Judgment
Antibacterial effect (AA grade)	FZ/T73023-2006, shaking method referred to appendix D; samples being washed for 20 times	Bacteriostasis rate: staphylococcus aureus \geq 80%; colon bacillus \geq 70%; candida albicans 98%	Bacteriostasis rate: staphylococcus aureus \geq 80%; colon bacillus \geq 70%; candida albicans 98%	Qualified
Dissolution rate (mm)	Fz/T73023-2006, as referred to appendix e; samples being washed for once	Width of inhibition zone $d \leq 5$	Staphylococcus aureus $d = 0$; colon bacillus $d = 0$; candida albicans $d = 0$	Qualified

Product Performance

- Better weaving capacity:** Long-lasting, non-degradable, transparent, and non-yellowing; compared with inorganic silver fiber antibacterial, this product is safer and more environmentally-friendly. Besides, it has greater passing ability during spinning.
- Targeted bacteria-attack:** Coolmous organic antibacterial fiber is more targeted at fungi and viruses, with higher efficiency than broad-spectrum antibacterial fiber in the market. With the deepening of people's antibacterial consciousness, they begin to realize that the indistinctive sterilization of broad-spectrum antibacterial kills harmful bacteria as well as beneficial ones that are essential to human health.
- More efficient antibacterial model:** It employs a brand new physical sterilization, which distinguishes itself from antibiotic or chemical sterilizations by killing bacteria with physical methods. Specifically speaking, physical sterilization kills harmful bacteria by dissolving and destroying the gene-arrangement of the bacteria, whose cell wall and cell membrane are negative and prone to be attracted, suffocated and ruptured.

PRODUCT

Cocarber®

Bacteriostatic Deodorization

Rich in active biochar and capable of absorbing odor, preserving heat, resisting bacteria, can be recycled, green and energy-saving.



Active biochar



Antibacterial



Thermal retention



Recycling

Orientation

Market Application



Sport



Leisure



Underwear



Home textile

Product Specification

Varieties:

DTY Cocarber

Types:

Bamboo Charcoal Cocarber/ Coconut Charcoal Cocarber/ China-hemp Charcoal Cocarber/ Coffee Charcoal Cocarber/ Dope-dyeing Cocarber/ Cotton Feeling Cocarber/ Renewable Cocarber/ Hydrophilic Cocarber

Specifications:

30D, 50D, 60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D.

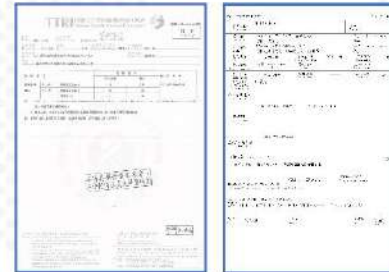
Bacteriostatic and deodorization series

Product Features

Technical Principle

Employ self-developed modified active charcoal polyester fiber combined with special carbonizing process of bamboo, coconut, China-hemp and coffee grounds, enlarging the inner space and having a powerful adsorption capacity.

Test Report



Patent



Patent for utility models
A kind of air-permeable and wet-permeable coffee charcoal fiber

Product Performance

> Odor absorption and deodorization:

The internal air void in active charcoal allows it to store a great amount of still air; the irregular space structure allows the charcoal to absorb comprehensive odor and to inhibit the bacteria.

> Temperature rise:

Rich minerals allow the product to effectively absorb far-infrared and lead to temperature rise.

> Anti-UV:

Rich natural minerals allow the product to effectively resist and absorb UV, thus protecting the wearer from the harm of UV.

> Effective bacteriostasis; moisture absorption and quick-drying

> Energy saving and environmentally-friendly:

The recycle of coffee grounds helps to reduce pollution, and the low-temperature carbonization helps to save energy.

Shotin®

Fatigue Relief

Rich in organic germanium to release ion; promoting metabolism and relieving fatigue; improving circulation; health protection and comfort.

Ge



Rich in organic germanium

Release ion

Promote the circulation

health protection and comfort

Orientation

Market Application



Sport



Leisure



Underwear



Home textile

Product Specification

Varieties:
DTY Shotin

Types:
Conventional Shotin/ Anti-UV Shotin/ Absorption and Perspiration Shotin/ Dope-dyeing Shotin/ Cotton Feeling Shotin/ Renewable Shotin/ Hydrophilic Shotin

Specifications:
30D, 50D, 60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D

Product Features

Technical Principle

Employ self-developed special polyester fiber combined with nano-scale negative-oxygen, generating powder organic germanium; modified cross section.

Test Standard

The test and assessment of anion generating amount of textile GB/T 30128-2013

Test Report



anion generating amount

The concentration of anion is up to the requirement of GB/T30128-2013

Patent



patent for utility models

A kind of anion cool double-knitting fabric

Product Performance

Healthy and warm

The anion released by germanium fiber can promote the angiectasis of capillaries and blood circulation, thus keeping the body warm.

Fatigue relief

The rubbing of close-fitting clothes generates anion, which promotes the angiectasis of capillaries and blood circulation, and strengthens physical stamina. Meanwhile, the product promotes metabolism, relieves the fatigue source—lactic acid—to rapidly recover physical stamina.

To strengthen physique

The product can help eliminate free radical, delay aging and enhance immunity.



Comfortable



Health



Green

Environmental Products

Product Features



Hydrophilic, energy saving and environmentally-friendly



Renewable and recycled



Dope-dyeing

Product Categories

Renewable Polyester Series

Dope-dyeing Series

PRODUCT

Recolin®

Recycled Polyester

Renewable and recycled fiber leads to low-carbon life style; energy saving and environmentally-friendly.



Renewable fiber



Recycling



Low-carbon lifestyle



Energy saving and environmentally-friendly

Energy Conservation and Environmental Protection Series

Orientation

Market Application



Sport



Leisure



Shoes

Product Specification

Varieties:
DTY Recolin

Types:
Conventional Recolin/ Anti-UV Recolin/ Absorption and Perspiration Recolin/ Cotton Feel Recolin/ Hydrophilic Recolin/ Functional Recolin

Specifications:
30D, 50D, 60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D

Product Features

Technical Principle

Filament or short-fiber products made of polyester chips extracted from recycled plastic bottle chips, plastics or cloth using physical method or chemical alcoholysis method.

Product Performance

Resource Conservation

Waste plastic bottles are recycled to save the limited oil resource. The production of per ton DMT can reduce an average crude oil of 0.63T and an average natural gas of 0.39m³. Likewise, per ton polyester extracted by chemical recycling reproduction method can reduce 1.1 ton naphtha.

Energy Saving

The production of per ton DMT can reduce an average energy of 60.46MJ.

Reduced Emission Of Co₂

The production of per ton DMT can reduce the emission of CO₂ by 3.2 ton, a relative reduction rate of 77%.

Product Plasticity

In addition to the production of conventional products, others kinds of product can be manufactured like fine-denier, the modified ones and those with additional special functions.

PRODUCT

Recolin®

Dope-dyeing

Dope-dyeing, energy saving and less emission; environmentally-friendly, safe and comfortable; sunlight-resistant, superior performance and controllable cost.



Organic antibacterial



Fresh and environmentally-friendly



Safe and non-toxic

Enjoy Your Fabric

Orientation

Market Application



Clothing



Home Textile



Flyknit

Product Specification

Varieties:

DTY Recolin (dope-dyeing)

Types:

Conventional Recolin/ Anti-UV Recolin/ Absorption and Perspiration Recolin/ Cotton Feel Recolin/ Hydrophilic Recolin/ Functional Recolin

Specifications:

30D, 50D, 60D, 80D, 90D, 130D, 160D, 190D, 260D, 320D, 450D.

Energy Conservation and Environmental Protection Series

Product Features

Technical Principle

Color master batch added in the process of spinning.

Product Performance

Superior Performance

The product has overcome the flaws of craft instability and dyelot chromatism existing in traditional dyeing. Compared with traditional dyed yarn, this product is more colorful and evenly stained with better color fastness and higher dye-uptake.

Safe And Comfortable

The reduction of dyeing avoids the contact between the fabric and the chemical dye, thus maintaining the original style of the fabric, keeping it comfortable and ensuring finer fibrous yarn and yarn evenness.

The Biggest Dyeing Difficulty Solved

It has solved the problem of poor color fastness under sunlight existing in traditional polyester fiber. In contrast, the color fastness of dope-dyeing polyester under strong sunlight can last for 600-1500 hours.

Energy Saving And Environmentally-friendly

The manufacturing process causes no pollution and rather low emission.

Economic

It has substituted the high cost of traditional dyeing with controllable cost.

Multiple Colors

Customization is operated according to the pantone number.

Smily
Sincere
Cooperate

Fashion Technology Connection

Stimulating fashion inspiration

Based on the current fashion trend, we provide professional fashion advice and inspirations for designers, manufacturers and other professionals in the field of brand and fashion.

Material technology support

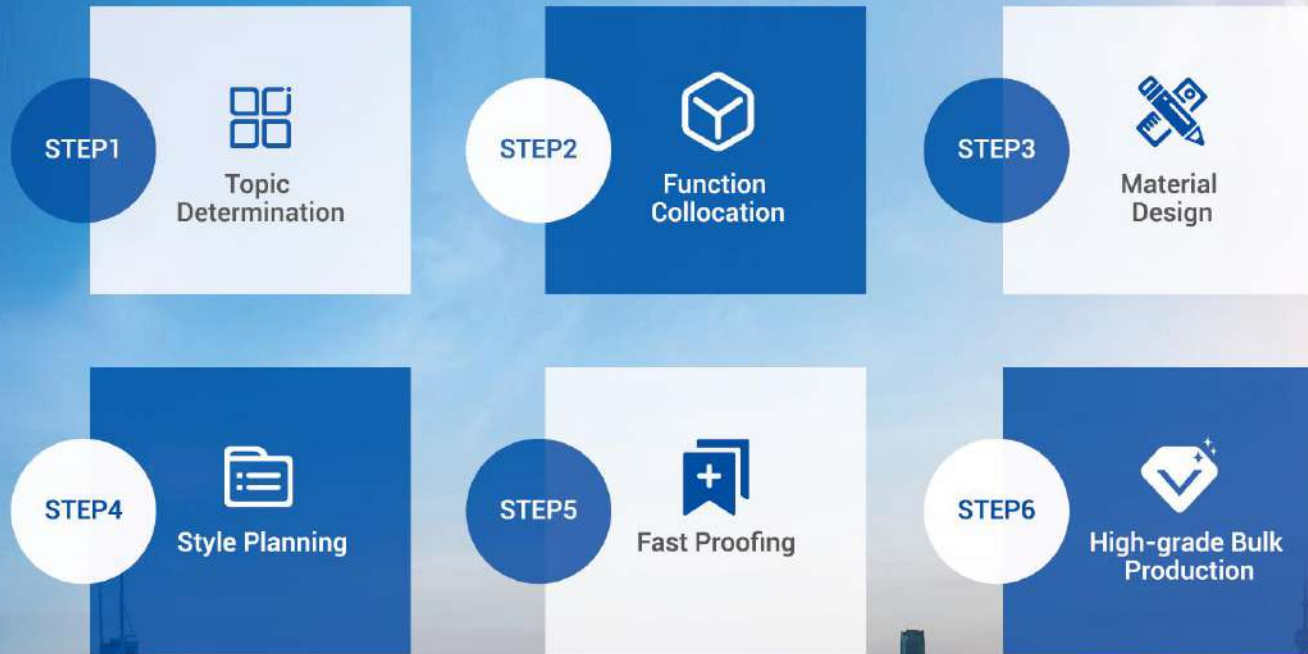
We provide package marketing scheme of material technology, and relevant information of material application and design, technology innovation and iteration, and fiber material technology for our business partners.

Connecting the industry chain

We keep good partnership with leading brands and suppliers in the industry, including well-known designers, sports brands, leisure brands, home-textile brands, as well as knitting and weaving factories.



Business Model



Contact Us

- Tel: 0512-53991066
- Website: www.Smilytex.com
- Email: Archer.Tan@smilytex.com
- Fax: 0512-53991066
- Address: Room 601, West Building, Overseas Student Pioneer Park, No. 6 West Beijing Road, Taicang City, Jiangsu Province, China.

