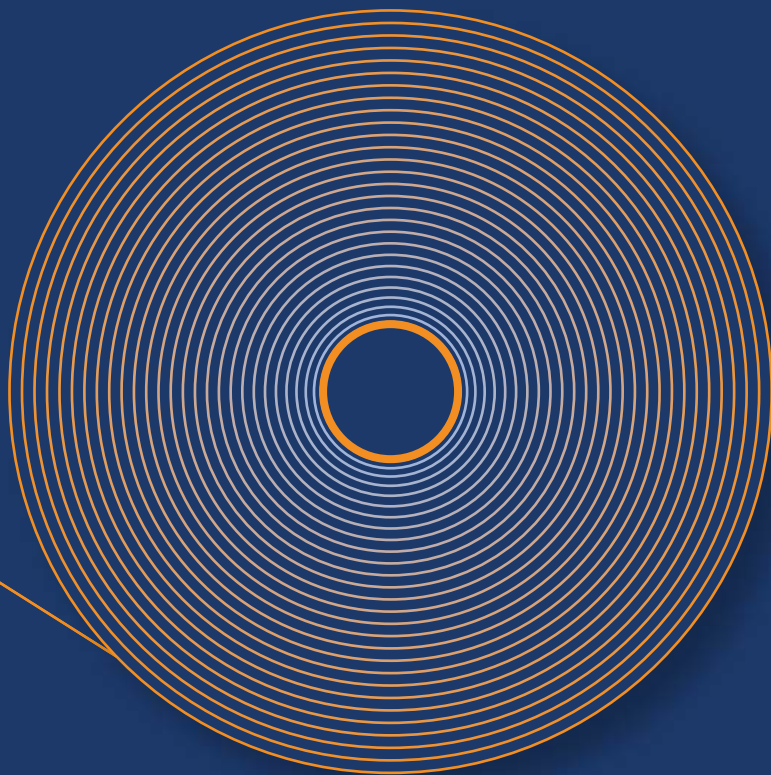


Catalogue

01





Founded in 2003, **SUNPOLAR** is a leading manufacturer of anti-embolism stockings, compression sleeves, and graduated compression socks. Located in Changhua County, Taiwan, we have over 20 years of experience providing OEM/ODM manufacturing services for global brands.

2003



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History

Parent Company:
E.C.I. ELASTIC CO., LTD.

Founded in 1974, E.C.I. ELASTIC CO., LTD. is known for its bra straps and elastic tapes production. E.C.I. ELASTIC CO., LTD. is also the leading supplier of auxiliary materials to the world's most famous bras & sports manufacturers.



Mission & Vision

At SUNPOLAR, our mission is to provide the best compression socks on the market.

Our vision is to be a globally recognized manufacturer of compression socks, and we already have satisfied customers worldwide, including in the USA, Australia, the Philippines, Sweden, Korea, Japan, India, Canada, England, China, and Taiwan.

01

Company Overview

We prioritize continuous improvement and innovation in knitted technology. We safeguard design patents and provide top-tier OEM services, ensuring quality and privacy for each client. Our skilled team leverages over 20 years of expertise to craft high-quality compression socks.



**Customer
Focus**

We are committed to exceptional customer service and understanding our customers' needs. This allows us to deliver efficient, high-quality products that meet the specific requirements of our clients.

Since our establishment, SUNPOLAR has been at the forefront— of innovation, utilizing various fibers and technologies to provide customized, high-quality products. Our focus on innovation and quality ensures that we deliver exceptional OEM services to our global clients.



Facilities

a 400 Needles Machine

b Germany Merz
Knitting Machine

c 200 Needles Machine

Certification



02

Facilities & Certificate

Graduated Compression Range

➔|< **FIRM**
25~30mmHg

- Higher range of medical compression
- Promoting blood circulation and recovery

➔|< **MEDIUM**
20~25mmHg

- Support leg swelling
- Commonly used for deep varicose veins and thrombosis

➔|< **LIGHT**
15~20mmHg

- Daily wear and regular training
- Eliminate leg edema

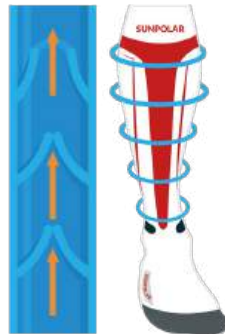
➔|< **ULTRA LIGHT**
4~10mmHg

- Suitable for daily basic wear
- Light support

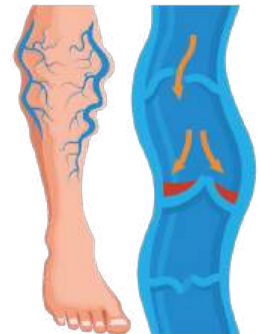


Compression Therapy

If the valve does not close properly, blood may flow backwards and collect in the vein, causing inflammation and swelling. Wearing compression socks can improve blood flow.



With Compression Socks



Varicose veins

03

Compression Knowledge

Compression Levels

Compression stockings, supports and braces are professionally designed and manufactured with five levels of graduated compression, providing tailored support

for various needs. Each level is carefully crafted to ensure optimal comfort and effectiveness, with the highest standards of quality.

Compression Levels		
Light	8-15 mmHg	Tired aching leg <ul style="list-style-type: none"> • Suitable for daily wear and commonly used for travel. • Light support, relieve tired and swelled legs.
Class I	15-20 mmHg	Minor varicosities <ul style="list-style-type: none"> • Daily wear and regular training. • Support to reduce ankle and leg swelling. • Commonly used for mild spider veins and varicose veins.
Class II	20-30 mmHg	Moderate varicose veins <ul style="list-style-type: none"> • Medical grade compression level. • Commonly used for Deep Vein. Thrombosis(DVT) and moderate spider and varicose veins.
Class III	30-40 mmHg	Acute deep vein thrombosis <ul style="list-style-type: none"> • The higher range of medical-grade compression. • Promoting blood circulation and recovery
Class IV	Above 40mmHg	Severe edema

001 General
Compression
Socks

002 Medical
Compression
Stockings

003 Anti-Embolism
Stockings

004 Supports & Braces

Visit our website to discover more:
www.sunpolartw.com



04 Our
Products

001

General Compression Socks

Experience unparalleled comfort with our expertly designed graduated compression socks, crafted with high-quality Lycra elastic yarns.

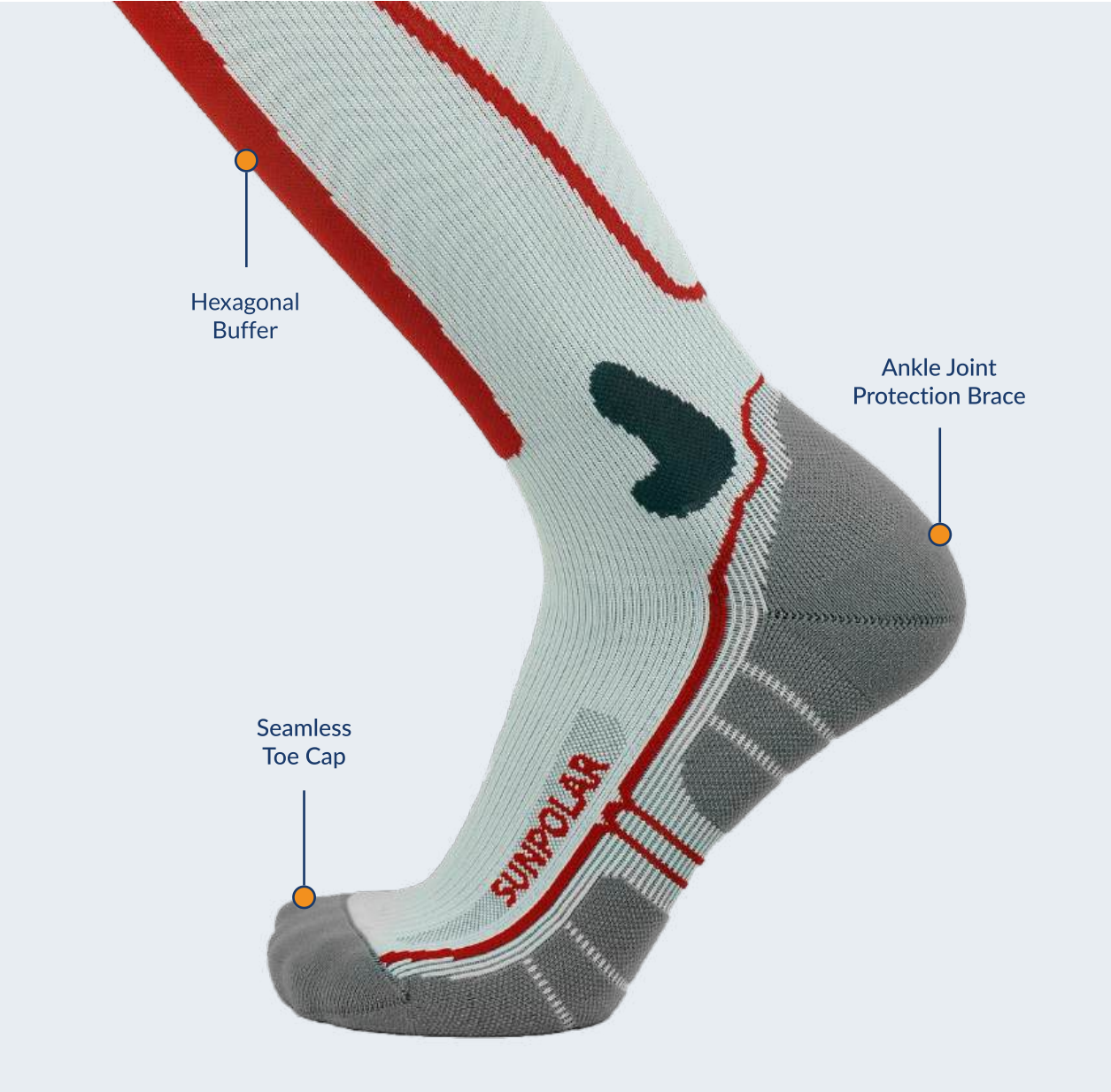


These socks deliver precise, graduated compression from ankle to thigh, specifically engineered to reduce leg fatigue and discomfort during long periods of standing, sitting, or after vigorous physical activity.

By promoting better blood circulation and aiding muscle relaxation, our graduated compression socks provide the perfect remedy for tired legs and swollen ankles.



We can customize all specifications and implement specialized processing to align precisely with your design and specific requirements.



002

Medical Compression Stockings

Our medical compression socks are specifically designed to provide graduated compression, promoting healthy blood circulation and helping to reduce swelling and discomfort.



Ideal for individuals who spend extended periods standing or sitting, these socks offer essential support for maintaining leg health and comfort throughout the day.

Medical Compression Stockings



Experience professional medical compression socks, carefully crafted from Lycra elastic yarns. Providing precise compression from ankle to thigh, these socks effectively relieve leg fatigue and discomfort after prolonged standing, sitting, or post-surgery. They promote blood circulation and vein health, making them the best choice for medical care and aiding recovery.



- a Medical Compression Pantyhose
- b Thigh-High Medical Compression Stockings
- c Knee-High Medical Compression Stockings
- d Bunion socks

We can customize all specifications and implement specialized processing to align precisely with your design and specific requirements.



003

Anti-Embolism Stockings

Our anti-embolism stockings are specifically designed to reduce the risk of blood clots in immobile patients.



These stockings offer gentle, even compression to maintain proper circulation, particularly during extended periods of bed rest or post-surgery recovery.

We can customize all specifications and implement specialized processing to align precisely with your design and specific requirements.

Anti-Embolism Stockings

- a Knee High Length
- b Inspect Toe Hole
- c Elastic Tape

Experience professional anti-embolism compression socks, meticulously crafted from Lycra elastic yarns. Providing specialized compression from ankle to thigh, they effectively prevent thrombosis and deep vein thrombosis, promoting blood circulation and reducing leg discomfort after prolonged inactivity or surgery. They are the optimal choice for thrombosis prevention and recovery promotion.



Supports & Braces

Our compression supports are engineered to stabilize and protect muscles and joints during intense physical activity.



Whether you're recovering from an injury or looking to enhance your athletic performance, our range of supports offers targeted compression and ergonomic design for maximum comfort.

We can customize all specifications and implement specialized processing to align precisely with your design and specific requirements.



Experience professional gradual compression support & braces, designed for prolonged wear, providing enduring support and comfort. With meticulously crafted compression distribution technology, it effectively alleviates joint and muscle pressure, promoting posture correction. It's the optimal choice for activity protection and support.



- a Compression Knee Sleeve
- b Compression Calf Sleeve
- c Compression Ankle Sleeve

Yarn Options

Our factory specializes in using high-quality functional fibers to meet a variety of special performance needs. We offer a range of advanced fibers that provide unique features and advantages to your products, such as odor resistance, antibacterial properties, blister prevention, UV protection, and far-infrared emission. These fibers can be tailored to create the most suitable feel and yarn composition for your product, ensuring it stands out in the market.

With over 500 colors of yarn available, we provide a vast selection for you to choose from. For those with specific color requirements, we also offer customized yarn dyeing services to meet your unique demands. Our team of experts is dedicated to working closely with you to develop a product that aligns perfectly with your vision, ensuring both aesthetic appeal and functional superiority.



Charbon Fiber



Polyster



Wool



Cotton

Furthermore, we are equipped to handle custom orders with precision, allowing for flexibility in fiber blend ratios, texture preferences, and innovative knitting techniques. This approach ensures that your products not only meet but exceed customer expectations, enhancing their satisfaction and loyalty. Our commitment to quality and innovation makes us your ideal partner for creating exceptional products that cater to diverse market needs.

Customised Services

Tailor Your Socks to Perfection

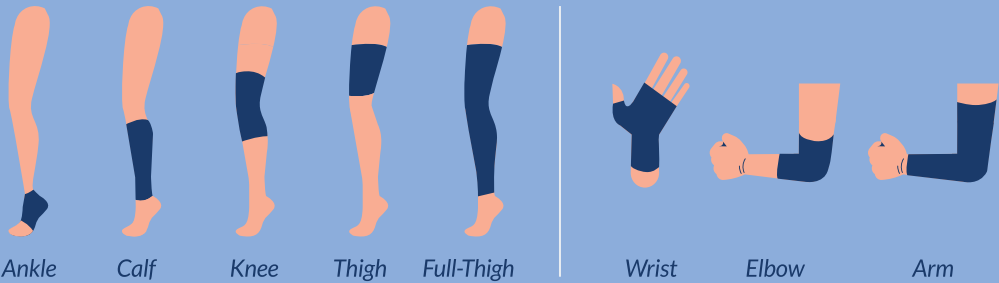
002

Length and Functional Design Options

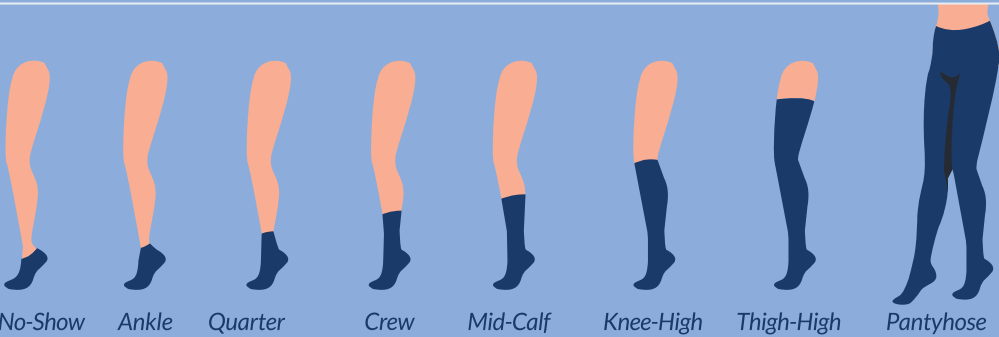
We offer a comprehensive range of customizable compression socks, catering to every need from no-show socks to thigh-highs and full-length tights. Our expertise allows us to create socks that perfectly match your requirements,

ensuring optimal comfort and effectiveness. Designed with ergonomic principles, our socks contour to various leg shapes while providing graduated compression to enhance circulation and reduce fatigue.

Sleeves



Socks



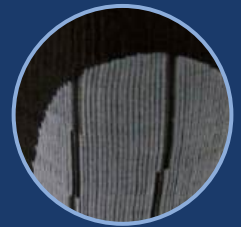
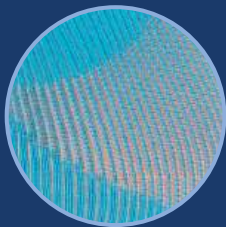
Our customization options extend beyond length, offering varied compression levels suited for athletic, medical, or everyday use. We integrate functional features such as reinforced heels and toes for durability, moisture-wicking materials for breathability, and seamless construction to minimize friction and enhance comfort.

003

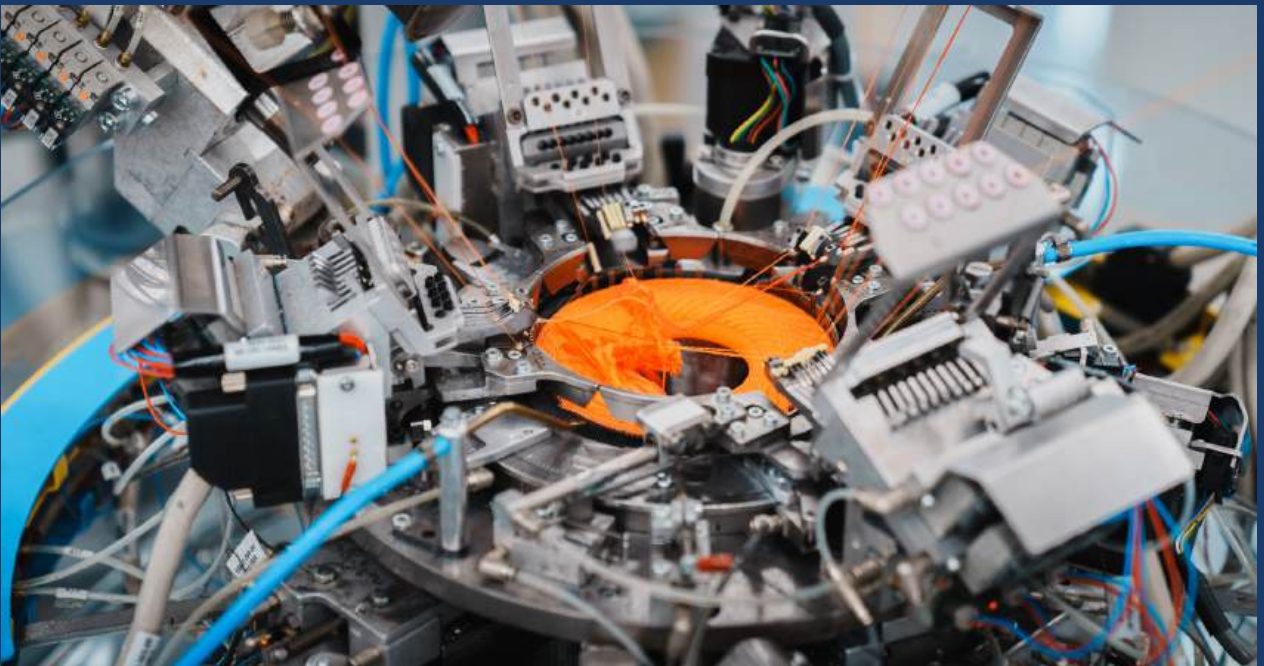
Innovate Knitting Patterns

Our skilled team develops customised knitting patterns, from intricate designs to ergonomic shapes, enhancing both fit and performance. We combine quality

craftsmanship with innovative design to bring your creative visions to life, ensuring each product is both aesthetically pleasing and highly functional.



Whether you require compression socks or other specialized products, we are dedicated to delivering solutions that meet your precise specifications and performance expectations.



Post-Processing Services

Our factory offers a comprehensive range of post-processing services to meet various customization needs, including sewing, heat attaching, shaping, and digital printing. These advanced techniques allow us to tailor products to your specific requirements and enhance their functionality and appearance.

Whether you have a unique design for compression socks or specific post-processing needs, we can integrate these features during the sample development phase. This approach ensures that we can evaluate the suitability of each post-processing technique and make necessary adjustments to achieve the desired outcome.



360° Digital
Printing



Silicone



Thermal Transfer
Printing



Reflective Printing



Overlock



Pad Printing

By choosing our post-processing services, you gain access to a team dedicated to pushing the boundaries of what's possible, ensuring that your products stand out in the competitive market.

Our expertise in post-processing extends to various applications, such as adding decorative elements, enhancing durability, and improving comfort. For instance, our heat bonding process provides seamless integration of additional materials or reinforcements, while digital printing allows for vibrant, detailed designs that maintain their integrity through wear and washing.

Our ability to practice vertical integration and quick response enables us to manufacture the most cost-effective products within the shortest timeframe.

How it works

This approach reduces delivery times and allows customization to meet your specific requirements whether it's color, design, or budget considerations.

Moreover, we hold the utmost respect for your business privacy. Rest assured that we take comprehensive measures to safeguard your intellectual property, ensuring the security of your ideas and designs.



06

Product Integration



Raw Material

E.C.I. Elastic Co., Ltd., our parent company, supplies covered and elastic tapes. Our compression products utilize diverse yarns, including LYCRA, Bamboo Charcoal, Far-infrared Fiber, Copper Fiber, and more.



Knitting

SUNPOLAR uses high-quality knitting machines like German MERZ and Italy LONATI to provide outstanding medical stockings, graduated compression socks, and compression sleeves. Seamless machines from Santoni are now available for compression tights and compression tops.



Cutting & Sewing

Cutting and sewing can be done in this process for medical stockings like compression knee-high, thigh-high, and pantyhose. We also reinforce the edge of the stocking sleeves.

01 —————>



Dyeing

Compression socks are dyed in this process, and the chemical treatments are added. For instance, the color-fixing agent improves the color fastness; the softening agent provides a better hand feel.

02 —————>



Quality Inspection

Our quality engineers inspect every single product and check the dimensions according to our product standard manuals. We also test the compression on the Swiss Salzmänn MST MK V and CMD-100. Before the shipment, the cartons will be randomly chosen to be inspected again.

03 —————>



Packaging

Our customers provide the artwork and we help to develop total solutions on packaging including barcodes, size stickers, boxes, and cartons.

04 —————>

05 —————>

06 —————>

Due to our deep understanding of the importance of preserving Earth's resources, we have implemented a series of environmental measures to reduce our carbon footprint and promote sustainable development.

What we do

From rainwater harvesting to solar energy utilization, we continuously seek new methods to decrease our reliance on natural resources while maintaining production efficiency and product quality.



07

Corporate Social Responsibility



Air-Suction-System

Our new factory, slated for 2023, will be equipped with advanced central dust collector technology, anticipated to reduce electricity consumption by:

40%

compared to our previous machinery.



Recycled Yarn Usage

With our **Global Recycled Standard (GRS)** certification, we actively support customers in incorporating recycled yarn into their product designs. In 2022, the adoption of recycled yarn is projected to surge by:

64%

showcasing our collective commitment to sustainable practices.





Harnessing Solar Power

Solar panels covering 316/kW were installed on our factory roof. Which is expected to generate:

365,000/kWh

of clean, green energy annually. This initiative underscores our dedication to reducing carbon emissions and embracing sustainable energy sources.



Rainwater Harvesting System

Our factory boasts a dedicated rainwater recycling system, collecting and storing rainwater for plant irrigation and toilet usage. This not only conserves water but also contributes to our overarching goal of energy saving and carbon emissions reduction.



Waste Repurposing into SRF

In a bid to minimize our reliance on natural resource extraction, we repurpose waste yarn into **Solid Recovered Fuel (SRF)**. This sustainable fuel acts as a greener alternative to coal or petroleum coke, effectively mitigating carbon emissions and preserving Earth's precious natural resources.



Fee Waiver Policy

For our international migrant workers, we have implemented a fee waiver policy since October 2011. As part of this commitment, we cover the expenses associated with their relocation to Taiwan, including broker fees and agency service fees. This policy aims to protect migrant workers' rights, attract talent, promote fairness, and enhance employee satisfaction and loyalty.



At our compression sock factory, we focus not only on producing high-quality products but also on creating a planet-friendly workplace. We believe these efforts benefit not only our company but also our planet. Through these eco-friendly measures, we look forward to working with you to build a more sustainable future.



08

Order Procedure



At **SUNPOLAR**, we are dedicated to blending timeless craftsmanship with cutting-edge technology to deliver unmatched quality in each of our products. We hope this catalogue inspires you and serves as a guide to the exceptional solutions we provide, designed to meet the needs of modern industries worldwide.

For more information about our products or to place an order, visit our website at www.sunpolartw.com or contact our customer service team. We are here to assist you with expert advice and support.

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