

FILAMENT 

FEFC® Nylon 6,6

Feel Easy Feel Cool





# FEFC<sup>®</sup> Nylon 6,6

Feel Easy Feel Cool 尼龍6,6 纖維的優勢



## FEFC<sup>®</sup> Nylon 6,6 is Your Best Choice.

- Over 15% lighter in weight than polyester.
- 20% stronger, by weight, than polyester and thus fabrics are more resistant to pilling and tearing.
- Stronger and better abrasion resistance than nylon 6 and polyester.
- Superior soft hand than nylon 6 and polyester.
- Better wash fastness than nylon 6 and polyester.
- Low shrinkage and good recovery of fabric lead to good dimensional stability due to intrinsic nylon 6,6 properties.
- Robust in after-treatment processes e.g. lamination, coating for multi- function fabric development.

- 質輕強韌，比聚酯輕量15%以上，強韌性高20%，是訴求輕量織物的最佳選擇。
- 抗起球、抗撕裂效果較聚酯佳。
- 抗磨耗效果較尼龍6以及聚酯佳。
- 優異手感較尼龍6以及聚酯佳。
- 水洗牢度較尼龍6以及聚酯佳。
- 展現較低的縮率以及良好的回復性，尺寸安定性佳。
- 優異化學穩定性，布料能承受如壓模、貼合、塗層等後加工處理。





# FEFC® Nylon 6,6

**Feel Easy Feel Cool** 尼龍6,6 機能纖維

## Lightweight

Ultra-lite nylon 6,6 filaments with soft handle and strength are used to produce fabrics for lightweight downproof, packable jackets, fine-gauge knitting intimate apparel providing comfort of weightless. Sheer and see-through effects meet the requirement of second skin story.

## Super Hand Feel

Supermicro nylon 6,6 filaments with cutting-edge fineness are used to produce fabrics for downproof jacket, sleeping bag, outdoor wears and intimates delivering superior softness and excellent coverage effect of fabric.

## Strength & Durability

High tenacity nylon 6,6 filaments with exceptional robustness are used to produce fabrics for outdoor wears, jackets, performing excellent tearing, tensile strength, abrasion resistance with enhanced hand feel.

## Comfort Stretch

Innovative nylon 6,6 filaments with soft stretch property are used to produce woven stretch fabrics without the use of spandex providing lightweight, softness, color fastness and dimensional stability. Warp knit fabric made of superior textured yarn provides bulkiness, comfort, and stability of fabric.

## Style & Looks

A diverse range of fine filaments with full range of lustres, intrinsic strength, are used to produce fabrics for all end-users with superior soft handle, jewel-like lustre and luxurious aesthetics drape.

## Functions

Advanced nylon 6,6 filaments with inherent permanent functionalities including moisture management, thermal resistance, opacity & UV-protection are used to produce fabrics for intimates, active sports, outdoor wears and legwear.







# FEFC<sup>®</sup> eco

## 尼龍6,6 環保纖維

Multiple green initiatives are underway in apparel industry. FEFC<sup>®</sup> echo the voice by providing its green approaches: FEFC<sup>®</sup> Solution Dye/ Recycled /PFC-Free DWR Nylon 66 yarn demonstrate energy saving, emission cutting and new eco friendly solutions to our environment while sustain its yarn performance.



### Solution Dye Nylon 6,6 fiber 原液染色尼龍六六紗

By adding color master batch to spinning process, solution dye make fiber with excellent color shade and fastness and environmental-friendly as not necessary to dye it after weaving or knitting.

**Color Solution**：使用超亮光尼龍六六原料，於紡絲工程中添加黑色無機顏料，使紡出的紗線一開始就具有良好的黑色色度，各種染色牢度都比 piece dye 優良，能克服 Piece dye 在日光牢度上不佳的問題。

**Softness Touch**：遠東先進所生產的原抽黑尼龍六六纖維，dpf 可達到 1，且纖維纖度及物性均勻，手感及色相均佳，可以直接作原絲使用與常規原絲作配列創造出布面立體外觀，亦可於ATY或DTY加工時與常規紗作交絡，再應用於平織或針織織造，可以創造特殊麻花外觀效果。

**It's Green**: 原液染色纖維可以減少後段染整過程中的化學染料助劑使用、廢水處理、有毒害物之物質產生等等問題，可以有效減少能源消耗及CO2排放，具有明顯環保節能減碳及降低環境危害效益。



### Recycled Nylon 6,6 fiber 尼龍六六回收環保紗

By collecting and recycling spinning waste, further for melting、filtrating、compounding as well as pelletizing. The spinning waste can be recycled and reused for re-spinning. It can saves 77% of energy consumption and reduce 75% of CO2 emission due to bypass polymerization stage. FEFC<sup>®</sup> made recycled nylon6,6 fiber was under strictly control on yarn property and dyeing uniformity so as to ensure mill's mechanical and dyeing performance. Our recycled yarn can be used for ATY or DTY processing with no problem which is a good material for woven or knitted fabrics to achieve the goal for environment friendly.

使用紡絲後的廢絲及廢膠為原料，經過回收整理、熔融、過濾及再造粒等過程，將紡絲廢料循環再生，加工再造成紡絲等級粒子，再回到熔融紡絲使用，如此再生循環過程可以減少聚合段77%的能源耗費及減少75%二氧化碳的產生及排放。不論在物性及染色性均嚴格控制，再加上本公司尼龍六六所特有的柔軟手感，可以於ATY或DTY 二次加工後，應用於平織或針織布料，達到對環境友善的責任及目標。



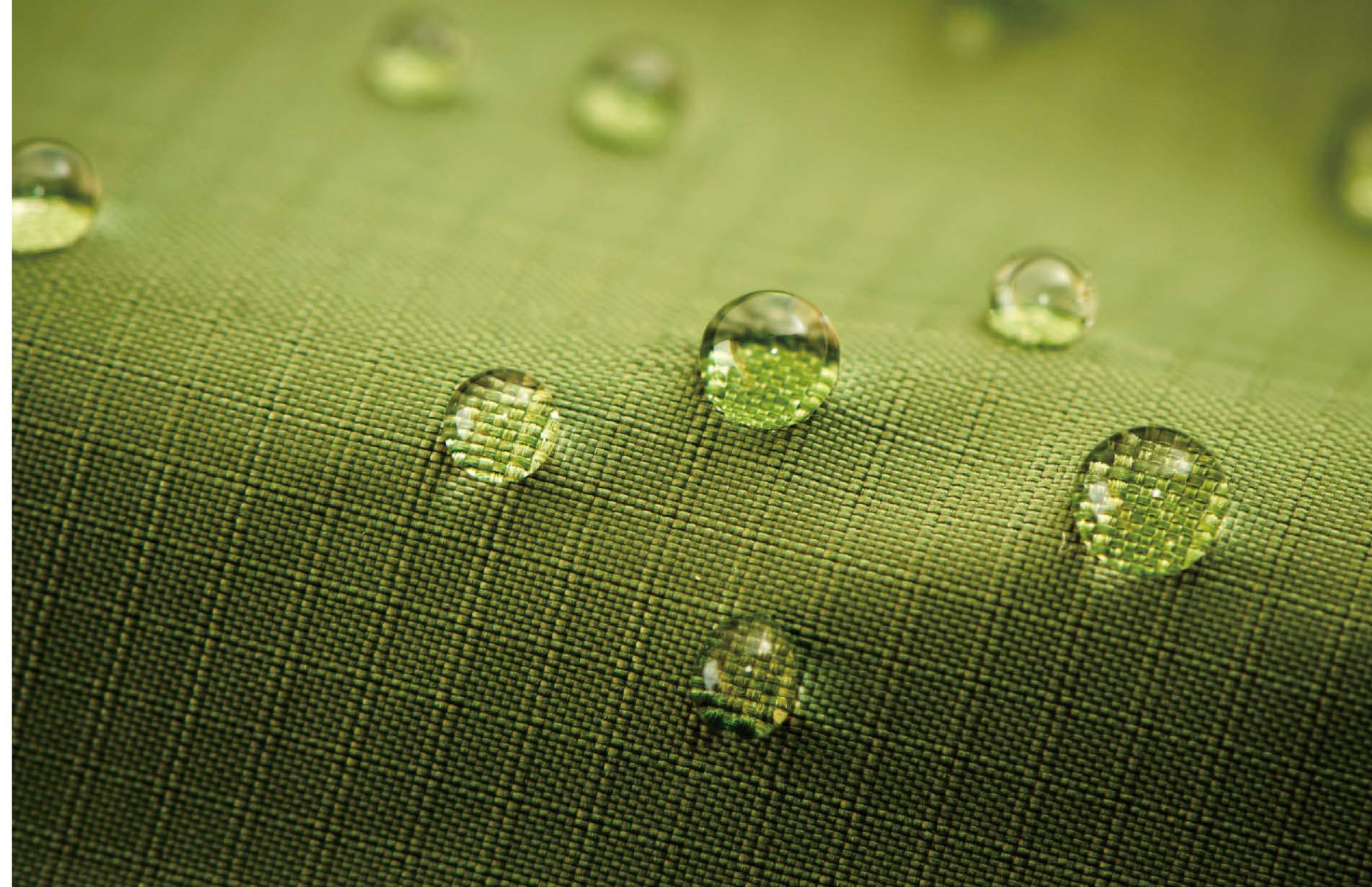
# PFC- Free DWR Nylon 6,6 Fiber



## 無氟撥水尼龍六六紗

FEFC® DWR, a breakthrough innovative technology in the permanent function of durable water repellent Nylon 66 yarns with zero PFC, combined with nylon 6,6 unique hand feel and DWR functional products without carry any PFC in it. After washing test 25 times, its proof of its level is still up to 80 (inclusive) or more, creating outdoor garments or shoes materials with superior hand feel and new eco friendly solutions to our environment.

FEFC® DWR 為一突破創新技術的持久性 PFC-free 尼龍六六環保撥水紗線，結合了尼龍六六特有的手感並強調真正不含氟素的環保撥水機能性產品，經過水洗實驗25次測試，證明其撥水等級仍達80(含)以上，本產品除了具有無氟撥水功能之外更兼具了尼龍六六的耐磨性及柔軟特性，非常適合於戶外運動布料及鞋材布料開發應用。







# Cottony UV cut Nylon 6,6 fiber



## 天然棉感抗紫外線尼龍六六紗

FEFC<sup>®</sup> natural, a cottony UV cut Nylon 6,6 fiber, newly developed by Far Eastern Fibertech Co. Ltd., by applying specialty N66 polymer for spinning which can greatly improve the ability of yarn to absorb and reflect solar light. That not only makes the luster of yarn more mat and natural looks but also transform the hand touch into more cottony. As a result, the yarn performs excellent UV-cut functionality to UVA and UVB that can reach the highest UPF level in 50+. This special N66 functional yarn not only can be used as best material for making high end intimate apparel to demonstrate it's superior hand feel and noble appearance, but also can be used for making outdoor sportswear to achieve better protection to skin from UV light.

FEFC<sup>®</sup> natural 是遠東先進纖維公司推出的新型棉感抗紫外線尼龍六六紗，運用特殊尼龍六六粒子，有效大幅提高紗線對光線的反射及吸收使紗線的光澤度變為更加收斂柔和，且手感更加貼近於天然棉的觸感及優雅外觀，賦予了紗線卓越的抗紫外線功能，有效阻隔及反射 UVA 及 UVB，經試驗顯示UPF可以達到最高等級50+。有效的阻絕了紫外線對人體的傷害，此特殊機能紗線融合了尼龍六六及天然棉的特色及優點，可以作為開發高級女用內衣及戶外運動服飾的最佳素材。







# Cooling Hydrophilic Nylon 6,6 fiber



## 涼爽舒適親水尼龍6,6纖維

### FEFC® cool~ Cooling Hydrophilic Nylon 6,6 fiber

FEFC® cool is a hydrophilic N66 fiber brings cool and comfortable effect to body. The function was created by add special nano hydrophilic additives into fiber during spinning stage. All of the nano additives were well dispersed around the fiber that gives N66 fiber with long-lasting higher moisture regain and water absorbency. It creates outstanding cool and soft feel as well as wicking effect to fabric. FEFC® cool is the excellent material for making base layer apparel.

### FEFC® cool~

遠東先進尼龍6,6「FEFC® cool涼爽舒適親水纖維」，新開發的長效型親水涼感尼龍6,6纖維，採用經奈米等級特殊親水添加劑，於紡絲過程中添加入尼龍6,6熔體內，與尼龍6,6達成高度完美的分散性融合，藉由提高纖維本身的親水性質而在纖維表面形成水膜，進而使人體肌膚達到涼感舒適效果，可以作為親肌膚層運動休閒布料的卓越開發素材。





#### TACTEL® Fiber

Soft. Light. Surprisingly strong. TACTEL® fiber is the preferred choice of leading fiber brands around the world for men’s, women’s and children’s apparel collections. Renowned for its softness, supple smoothness and breathability, this lightweight innovation is ideally suited for women’s intimate apparel and can even be found in accessories.



#### SUPPLEX® Fabric

Enjoy the best of both worlds with SUPPLEX® fabric. Create apparel that combines the benefits of advanced fiber technology with the traditional texture and aesthetics of natural cotton. Garments made with cotton often fade in color and tend to crease and shrink easily. SUPPLEX® fabric offers consumers the feeling of cotton they love, but offers the performance benefits they desire: breathability, faster dry times, shape and color retention. No wonder it’s the fabric of choice in many apparel segments.



*TACTEL® fiber and SUPPLEX® fabrics are registered trademarks of INVISTA. They are used under license to FEFC for its nylon 6,6 products.*

Market-back approach with close networking within integrated team along the value chain (FEFC, Texturizer, Fabric Mills, Brands).	
Denier range :	10 ~ 205 denier
Range of dpf :	0.4 ~ 3.5
Cross-section :	round, trilobal, cross, hollow, diabolo, mixed, special cross section
Luster :	Dull, Bright, semi-dull, Hyper Bright, Double Dull
Tenacity :	3.0 ~ 8.0 g/denier
Yarn type :	Solution dyed yarn 、Deeper color yarn 、Cationic dyed yarn Far-Infrared yarn 、Cool yarn (Higher moisture regain) 、Anti-bacterial yarn 、 Anti-odor yarn 、Anti-UV yarn 、Super dull yarn 、Hyper bright yarn 、Recycled yarn 、 High tenacity yarn 、PFC-Free DWR yarn
Elongation :	fully drawn yarn (FDY), highly oriented yarn (HOY), partial oriented yarn (POY)
Application :	Seamless, warp knit, circular knit, weaving, air jet texturing,false twist texturing, covering yarn