

Always, All ways
恒尽所能



氨纶与整经

Spandex and Warping



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HSCC 恒申

化工·化纤·新材料

Always, All ways
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氨纶 Spandex

原理 Principle

高度弹性，伸长可达6~7倍，拉伸回复迅速、稳定。
High elasticity, elongation up to 6-7 times, rapid and stable tensile recovery.

特点 Features

- 采用连续聚合、干法纺丝工艺技术；
- 条干均匀，品质稳定；
- 分为半消光和本白丝。
- 针对客户不同需求，调整产品性能，如：耐氯、耐高温、酸性染料可染、低温易定型等
- Continuous polymerization and dry spinning technology;
- Uniform evenness and stable quality;
- The product luster: semi-dull and clear;
- According to the different requirements of customers, the product performance can be adjusted to offer chlorine resistance, high temperature resistance, acid dyeability and easy setting at low temperature.

产品 Products

生产范围 Production Range

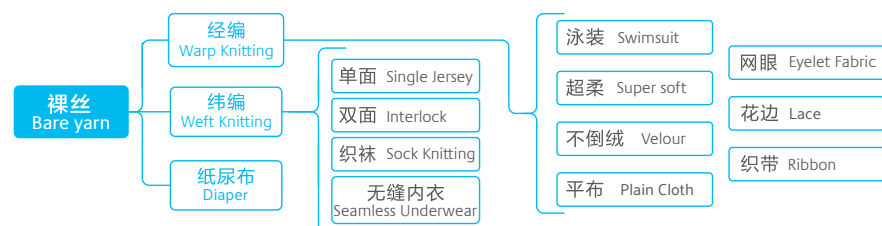
10-1200D

应用 Application

裸丝：100%氨纶丝

Bare yarn: 100% spandex

主要终端产品：紧身衣、运动衣、泳衣等。
Main end products: Tights, sportswear, swimwear, etc.



包芯纱：以拉伸状态下的氨纶丝为芯纱，通过均匀缠绕的方式在氨纶丝外层包上一种或几种非弹力短纤维（棉、毛、腈纶等）纺成的纱线。

Core-spun yarn: Spinning one or more non-elastic short fibers (cotton, wool, acrylic, etc.) on the outer layer of stretching spandex yarn.

主要终端产品：织物、袜子、弹力牛仔布及针织品的三口（领口、袖口、下摆）等服饰辅料。

Main end products: Garment accessories such as fabrics, socks, elastic denim and knitwear (neckline, cuffs and lower hem)

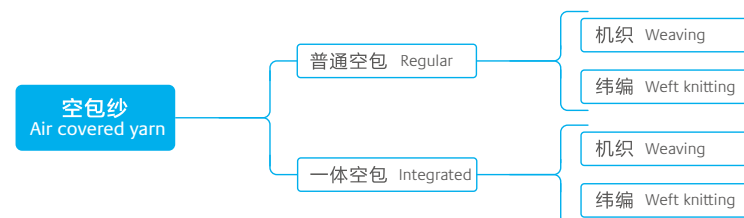


空包纱：以拉伸状态下的氨纶丝为芯，与无弹性的长丝（涤纶或锦纶）经过网络喷嘴在一定压力压缩空气的作用下将长丝包覆在氨纶丝表层而形成的弹力纱。

Air covered yarn: An elastic yarn formed by covering spandex filament with an inelastic filament (polyester or nylon) on the spandex filament surface via a intermingling jet under a certain pressure of compressed air.

主要终端产品：袜子、纬编内衣、护腿弹力带等。

Main End Product: Socks, weft knitting underwear, leg straps, etc.



合捻纱（又称合股纱）：在对氨纶丝牵伸的同时，与其它无弹性的两根纱并合加捻而成。

The combined twist yarn (also known as ply yarn): is made by combining and twisting spandex with two other inelastic yarns while stretching it.

主要终端产品：多用于织造粗厚物，如弹力劳动布、弹力单面华达呢、时装面料等。
Main End Product: It is mostly used to weave thick fabrics, such as stretch labor cloth, stretch single-sided gabardine, fashion fabrics, etc.





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氨纶-低温易定型 Spandex-Easy Setting at Low Temperature

原理 Principle

通过工艺改性降低氨纶定型要求温度。
Reduce the setting demand temperature of spandex through process modification.

特点 Features

针对锦氨面料开发，有效提高定型容错率。
Aiming at the development of nylon/spandex fabric, improving the fault tolerance rate of setting effectively.

优点 Advantages

- 定型需求温度比常规氨纶降低8-10℃；
- 染色性能优于常规氨纶；
- 回弹速度快，布面不易卷边；
- 条干均匀。
- The required temoerature for setting is 8-10℃ lower than that of general spandex;
- The dyeing performance is better than that of general spandex;
- Fast rebound speed ,and the cloth surface is not easy to curl;
- Uniform evenness.

产品 Products

- 生产范围 Production Range
20D-70D
- 代表产品 Typical products
20D、30D、40D、70D

应用 Applications

使用氨纶与锦纶交织的织物。
Fabric interwoven with spandex and nylon.



弹力裤
Stretch pants



瑜伽服
Yoga wear



内衣
Underwear



运动服
Sportswear



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氨纶—耐氯

Spandex-Chlorine resistant

原理 Principle

采用特殊工艺克服氨纶在氯环境下强力和弹性回复率快速下降的问题。

A special process is used to overcome the problem that the strength and elastic recovery rate of spandex decreased rapidly under the condition of chlorine.

优点 Advantages

- 耐氯性能提高10倍;
- 条干均匀;
- 耐高温, 抗静电。
- Chlorine resistance increases by 10 times;
- Uniform evenness;
- High temperature resistance, antistatic.

高浓度氯环境下耐氯性能 Chlorine resistance in high-concentration chlorine environment	断裂强力维持率 Maintenance rate of breaking strength	300%伸长下强力维持率 Strength maintenance rate at 300% elongation
常规氨纶 General spandex	4%	11.5%
恒申耐氯氨纶 HSCC Spandex—Chlorine resistant	53.5%	64.5%

产品 Products

- 生产范围 Production Range
20-420D
- 代表产品 Typical products
20D、30D、40D、50D、60D、70D

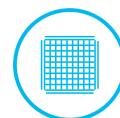
应用 Applications

适用于氨纶与锦纶交织的织物。

Suitable for spandex and nylon interwoven fabric.



经编泳装布
Warp knitting swimsuit



网眼布
Mesh fabric



牛仔布
Denim



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氨纶-无缝内衣及高密度网布用 Spandex-For seamless underwear and high-density mesh fabric

原理 Principle

针对无缝内衣及高密度网布等应用进行工艺优化，提高此类产品性能。

It optimizes the process for seamless underwear and high-density mesh fabric to improve the performance of such products.

特点 Features

各规格条件下都能保持良好的条干、退绕张力及丝筒内外层差。

Igood evenness, unwinding tension and difference between inner and outer layers of the bobbin can be maintained under various specifications.

产品 Products

生产范围 Production Range

20D-290D

代表产品 Typical products

类别 Category	规格 Specification
无缝内衣 Seamless underwear	100D、140D、210D、280D
高密度网布 High-density mesh	100D、140D、210D、280D、420D

应用 Applications



袜口
Socks



袖口
Cuffs



腰口
Waist



织带
Ribbon



平布
Plain cloth



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氨纶—酸性染料可染 Spandex—Acid Dyeable

原理 Principle

通过特殊工艺克服传统氨纶在酸性染料中的染色劣势

The dyeing disadvantages of traditional spandex in acid dyes are avoided through special processes.

特点 Features

优化氨纶在酸性染料中的染色性。

此类氨纶同锦纶交织后，可以改善布面的“露白”，防止竞染现象。

The dyeability of spandex in acid dyes is optimized.

After this type of spandex is interwoven with nylon, the fabric can eliminate the "whiteness" of the cloth surface and prevent competitive dyeing.

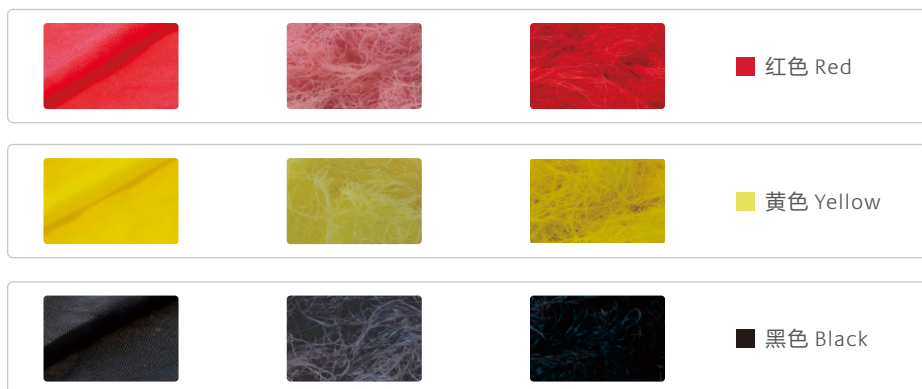
优点 Advantages

- 条干均匀，弹性回复好
- Uniform evenness, excellent elastic recovery.
- 酸性染料易染，色泽浓郁均匀
- Good dyeability in acid dyes, bright colors, uniform dyeing
- 无需氨纶上色剂，节约成本
- No need for spandex coloring agent, cost saving.

纯锦纶面料
Pure nylon fabric

常规氨纶
General spandex

恒申酸性染料可染氨纶
HSCC Spandex—Acid Dyeable



100%易染氨纶色牢度

Color fastness of 100% easy-dyeing spandex

水洗色牢度 Color fastness to washing (ISO 105 C01 40°C*30min)						
多纤沾色 Staining of multiple fibers	羊毛 Wool	腈纶 Acrylic	涤纶 Polyester	锦纶 Nylon	棉 Cotton	醋纤 Acetate Fiber
黑 Black	4-5	4-5	4-5	4-5	4-5	4-5
红 Red	4-5	4-5	4-5	4-5	4-5	4-5
黄 Yellow	4-5	5	5	5	5	5

水洗色牢度 Color fastness to washing (ISO 105 C01 40°C*45min)						
多纤沾色 Staining of multiple fibers	羊毛 Wool	腈纶 Acrylic	涤纶 Polyester	锦纶 Nylon	棉 Cotton	醋纤 Acetate Fiber
黑 Black	4-5	4-5	4-5	4-5	4-5	4-5
红 Red	4-5	4-5	4-5	4-5	4-5	4-5
黄 Yellow	4-5	4-5	4-5	4-5	4-5	4-5

产品 Products

生产范围 Production Range

20D-420D

代表产品 Typical products

20D、30D、40D、70D、140D、210D、280D

应用 Applications



无缝内衣
Seamless underwear



泳衣
Swimwear



紧身袜裤
Tights



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氨纶—粗旦—经编平布和纬编用 Spandex—Coarse Denier-For Warp Knitting Plain Cloth and Weft Knitting

原理 Principle

进行工艺改进优化，提升粗旦氨纶丝的条干均匀度与力学稳定性。
The evenness and mechanical stability of coarse denier spandex are enhanced by process optimizing.

特点 Features

高条干均匀度的粗旦氨纶丝能够赋予经编平纹、纬编等针织面料更好的组织结构均匀性。
The coarse-denier spandex with high evenness can make the fabrics of warp-knitted plain, weft-knitted and others better structure uniformity

优点 Advantages

- 条干均匀，在粗旦数条件下，面料组织疏密分布均匀，防止条干问题导致的面料异常花纹。
Uniform evenness. Under the condition of coarse denier, the fabric structure is distributed evenly, preventing the abnormal patterns of fabrics caused by the evenness problem.
- 张力均一，给予面料四面稳定的力学效果。
Because of the uniform tension, the fabric have a stable mechanical effect on all sides.

产品 Products

- 生产范围 Production Range
50D-420D
- 代表产品 Typical products
50D、55D、65D、70D、78D、
100D、105D、140D、200D、280D

应用 Applications



蕾丝
Lace



内衣
Underwear



织带
Ribbon



瑜伽服
Yoga wear



泳装
Swimsuit



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整经 Warping

■ 车间介绍 Workshop Introduction

恒申整经致力于打造高品质整经产品，提供一流的产品服务，赢得国内外高端、优质客户的信赖。

The warping workshop is committed to manufacturing high-quality warping products, providing first-class products and services, and winning the trust of high-end and high-quality clients at home and abroad.

■ 先进的生产设备 Cutting-edge Equipment

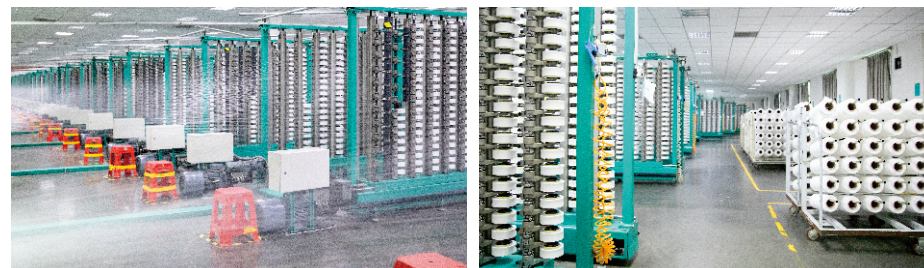
- 最大规模：国内最大的氨纶整经规模；
- Maximum scale: The largest spandex warping capacity in China;
- 专业设备：锦纶和氨纶都采用卡尔迈耶高速整经机；
- Professional equipment: Both nylon and spandex adopt KARL MAYER high-speed warping machines;
- 技术升级：在原设备基础上进行了多项技术改进；
- Technical upgrade: Multiple technical improvements have been made on the basis of the original equipment;
- 智能精确：整经机更加智能，精确把控品质。
- Intelligent & Accurate: The warping machine is more intelligent which can accurately controls the quality.



■ 优质的原料供给 High-quality raw material supplier

恒申集团是国内最大的锦纶和氨纶生产基地之一，依托全产业链优势，为整经环节提供最齐全、优质的原料。

HSSC is one of the largest production bases of nylon and spandex in China, relying on the advantages of the whole industrial chain to provide the most complete and high-quality raw materials for warping.



■ 一流的服务水平 First-class Service

- 自有优质盘头
- Self-owned high-quality warp beam
- 完善质检平台
- Improved quality inspection platform
- 高端客户群体
- High-end client group
- 快速物流响应
- Rapid logistics response





整经车间

Warping Workshop

