



hrafon
华峰化学

创享 新时代 美好生活

CREATE A BETTER LIFE
IN THE NEW ERA



千禧®氨纶
产品说明书
QIANXI SPANDEX
PRODUCT BROCHURE



华峰化学公众号
Huafon Chemical Official Account



华峰化学官网
Huafon Chemical Official Website



华峰化学股份有限公司
Huafof Chemical Co.,Ltd.



氨纶行业标杆和龙头企业
Benchmark and leading enterprise in the
spandex industry.



生产规模居国内第一,全球第二
The production scale ranks first in China and
second in the world.



温州首家国内上市民营企业和全国首家主营氨纶业务
上市公司
The first domestic listed private enterprise in
Wenzhou and the first Chinese listed company
mainly engaged in spandex.



中国工业行业履行社会责任五星级企业
Chinese Five Star Industrial Enterprise to
Fulfill Social Responsibility.



拥有浙江温州和重庆涪陵两大氨纶生产基地
With two major spandex production bases in
Zhejiang Wenzhou and Chongqing Fuling.



建有国家级博士后工作站和浙江省华峰纤维研究院
A national post-doctoral workstation and
Zhejiang Huafof Fiber Research Institute have
been established.



是如此地柔软舒适, 体贴入微;
是如此地无拘无束, 自由自在;
这份新体验, 带来激情和跃动;
这种新时尚, 源自千禧®氨纶。

It is so soft and considerate.

It is so free and easy.

This new experience brings about passion and vigor.

This new fashion derives from Qianxi Spandex.



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再生氨纶

Recycled Spandex

通过全球回收标准（GRS）认证，符合全球绿色、环保趋势，可提升企业“绿色”和“环保”的市场竞争力；产品规格覆盖20D-1120D，回收料含量为20%~100%，能满足客户定制需求，性能与常规产品无差异。

The product has passed the Global Recycled Standard (GRS) certification, which is in line with the global green and environmental protection trends, and can help to enhance market competitiveness of "green" and "environmental protection" as an "environmental friendly enterprise".

The product specifications cover from 20D to 1120D, the content of recycled materials is from 20% to 100% generally and it can be customized, no difference in performance from conventional products.

产品优势

Product superiority



循环利用
Recycling



绿色生态
Green ecology



可定制
Customizable



可提供吊牌
Hangtags available

使用范围

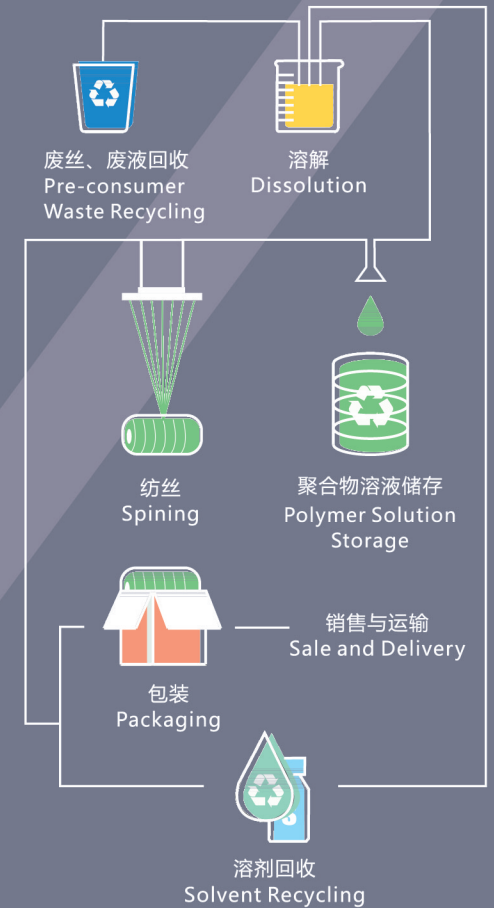
Application

运动服、内衣、鞋材、袜品、泳装等

Sportswear, underwear, shoes, socks, swimwear, etc.

再生氨纶生产流程

The production process of recycled spandex



舒适氨纶

Soft Spandex

能使织物与身体完美贴合，又无束缚感，彰显舒适自由之美。

It can make the fabric fit the body perfectly, without the sense of bondage, and demonstrate the beauty of comfort and freedom.

产品优势 Product superiority



初始模量低
Low initial modulus



瞬间弹性恢复性好
Good instantaneous elastic recovery

无勒痕
No marks



可定制
Customizable



易拉伸
Easy to stretch



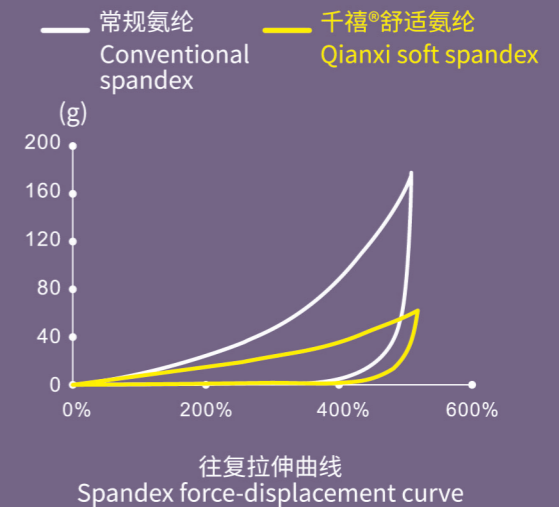
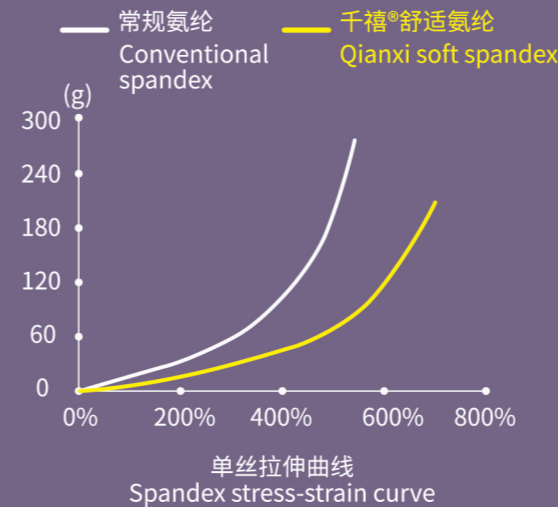
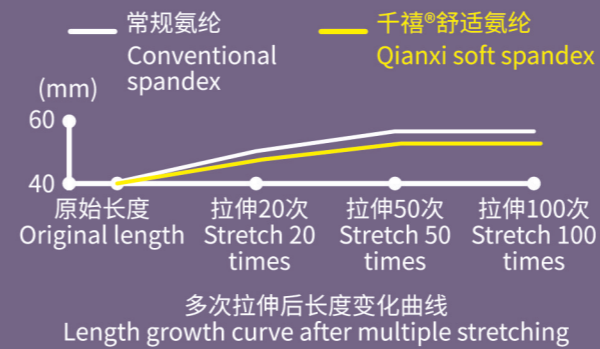
塑性形变小
Low plastic deformation



使用范围 Application

内衣、袜子罗口、运动服、医用绷带等

Underwear, socks, sportswear, medical bandages, etc.



高弹黑色氨纶

High Elastic Black Spandex

将黑色元素均匀地分散在纤维中，使纺织面料呈现出持久的色牢度，解决传统氨纶在深色面料中因为不上色而造成的露白问题，同时减少染色带来的环境污染，满足包纱、纬编和经编等织造工艺需求。

The black pigment is uniformly dispersed in spandex to enable a perfect black color with wonderful durability, and solving the grin-through problem of conventional spandex in dark colored fabric, and therefore reduce environmental pollution caused by dyeing, as well as satisfy the weaving process requirements of covering yarn, weft knitting and warp knitting.

产品优势

Product superiority



高弹
High elasticity



不掉色
Do not fade



耐温
Temperature resistance



环境友好
Environmental friendly



黑度高
Deeper black

适用范围

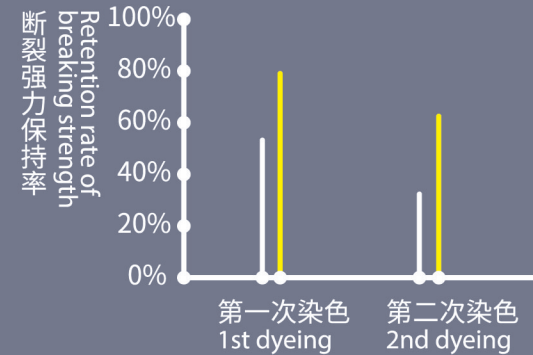
Application

内衣、袜子、针织T恤上衣、外套和运动服等深色织物

Dark colored fabric applied in underwear, socks, knitted T-shirt tops, coats and sportswear, etc.

耐温性测试

High temperature resistance test



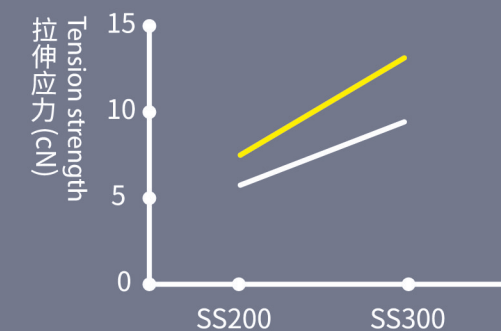
测试条件：先185℃预定型1min，再130℃染色40min，然后190℃定型1min

Test conditions: 185°C heat-setting for 1 min, then dye at 130°C for 40min, then 190°C heat-setting 1 min.

— 常规氨纶
Conventional spandex
— 千禧®高弹黑色氨纶
Qianxi high elastic black spandex

拉伸应力曲线

Tension strength curve



— 常规氨纶
Conventional spandex
— 千禧®高弹黑色氨纶
Qianxi high elastic black spandex

常规氨纶
Conventional spandex



千禧®高弹黑色氨纶
Qianxi high elastic black spandex



超耐氯氨纶

Super Chlorine-resistant Spandex

抗氯漂性能出色，能有效避免氨纶在日常洗护、游泳池环境及重度漂洗等情况下易受损的问题。

It has excellent resistance to chlorine bleaching, which can effectively avoid the problem that spandex is easily damaged in daily care, swimming pool environment and heavy rinsing.



产品优势 Product superiority



耐氯
Excellent chlorine resistance



版型保持率好
Good pattern retention

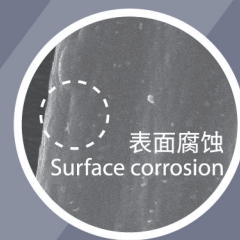


耐温
Temperature resistance



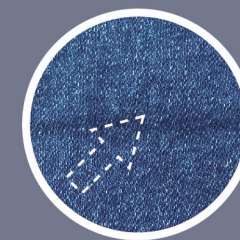
“浙江制造”品质认证
"Zhejiang Made" brand qualified

对比活性氯离子对不同氨纶的损伤程度 Active chlorine damage comparison to different spandex

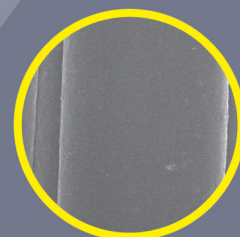


表面腐蚀
Surface corrosion

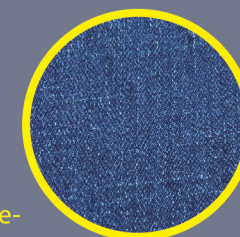
常规氨纶
Conventional spandex



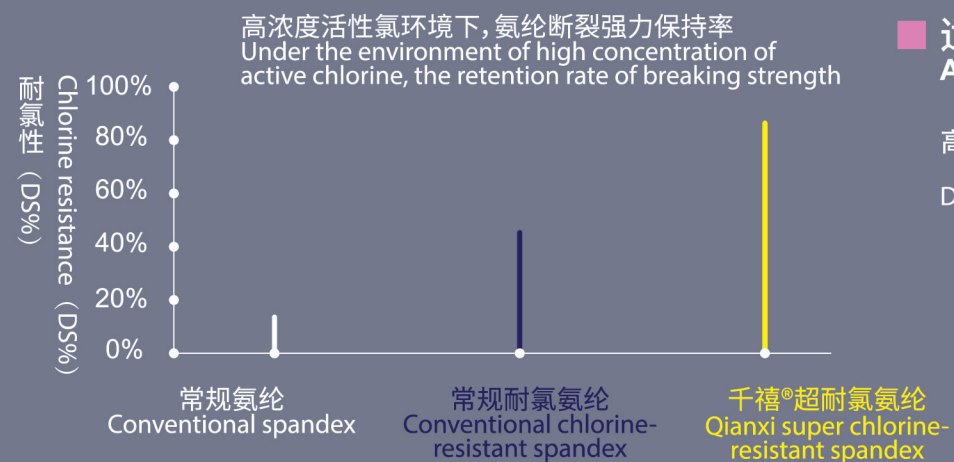
常规氨纶：
Conventional spandex
起泡、断丝、失弹
Foaming, breaking wire, loss of elasticity



千禧®超耐氯氨纶
Qianxi super chlorine-resistant spandex



千禧®超耐氯氨纶
Qianxi super chlorine-resistant spandex



测试条件：在50°C，pH6.0，浓度0.52g/L的次氯酸钠溶液浸泡30min

Test condition: Soak in sodium hypochlorite solution at 50°C, pH6.0, concentration 0.52g/L for 30min

适用范围 Application

高档牛仔、泳衣和运动服等
Denim, swimwear and sportswear, etc.

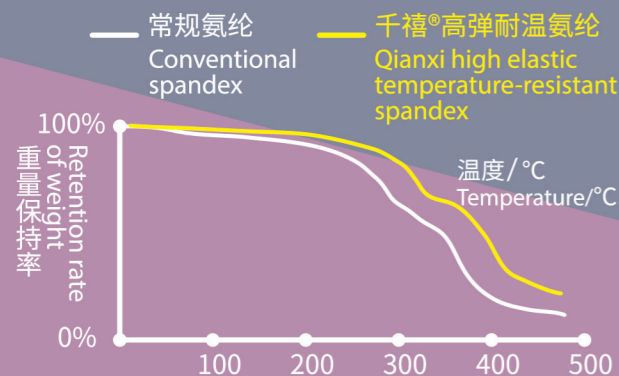
高弹耐温氨纶

High Elastic Temperature-resistant Spandex

有较高的弹性模量及强度，且耐高温性能优异，满足面料的多次染色以及修色要求，且有助于面料色牢度的提高。

The product have high elasticity and temperature resistance, fully meet the requirements of multiple dyeing and color correction of finished fabrics, as well as help to strengthen color fastness of finished fabrics.

TGA曲线 TGA curve



产品优势 Product superiority



高弹
High elasticity

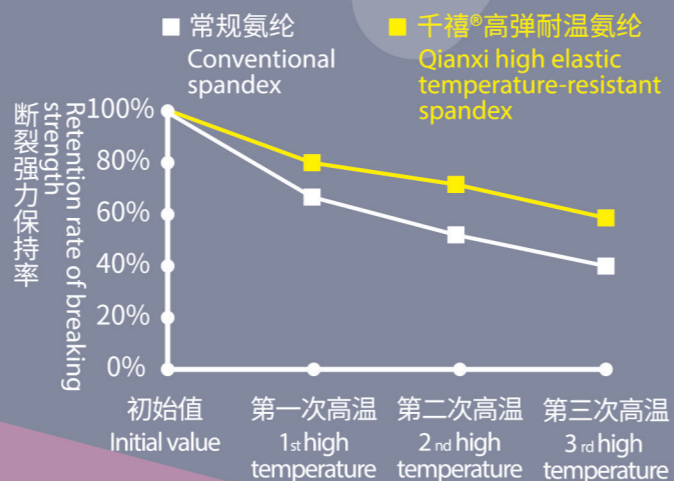


耐温
Temperature resistance



国家重点新产品
National new product

耐高温曲线 High temperature-resistance curve



测试条件：先185°C预定型1min，再130°C染色40min，然后190°C定型1min
Test conditions: 185°C heat-setting for 1 min, then dye at 130°C for 40min, then 190°C heat-setting 1 min.

适用范围 Application

可搭配多种纺织材料，与涤纶或含有涤纶成分的纱线交织，更能体现其卓越的综合性能。
It can be matched with a variety of textile materials, and interwoven with polyester or yarn containing polyester components can better reflect its excellent comprehensive performance.



纵向最大伸长率38%—40%
Longitudinal maximum elongation 38%—40%

纵向最大伸长率28%—30%
Longitudinal maximum elongation 28%—30%

横向最大伸长率12%—14%
Horizontal maximum elongation 12%—14%

横向最大伸长率18%—20%
Horizontal maximum elongation 18%—20%

酸性可染氨纶

Acid Dyeable Spandex

能满足锦纶类弹性织物染色后色彩靓丽的要求，有效消除弹性纤维的露白现象，定型温度可较常规氨纶低10-15°C。

It can meet the requirements of beautiful colors of nylon elastic fabrics after dyeing, effectively eliminate the grin-through problem of conventional spandex, and the heat-setting temperature of the fabric can be 10-15°C lower than that of conventional spandex.



产品优势 Product superiority



上染率和色牢度高
High dyeing rate and color fastness



定型温度低
Low setting temperature



节能环保
Energy saving and environmental protection

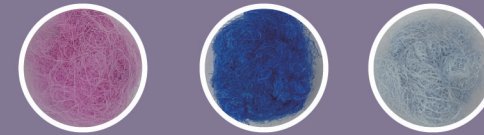
适用范围 Application

与锦纶交织的弹性织物，如内衣、紧身裤袜和运动织物等
Elastic fabric interwoven with nylon, which can be applied to underwear, tights and sports fabrics, etc.

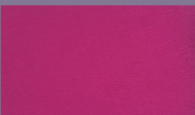

千禧®酸性可染氨纶
Qianxi acid dyeable spandex



常规氨纶
Conventional spandex



上色效果 Dyeing effect

上染颜色 Dyeing color	100%酸性可染氨纶面料上色效果 Dyeing effect of 100% acid dyeable spandex fabric	耐皂洗牢度 Colorfastness to soaping
红色 Red		4-5级 Grade4-5
蓝色 Blue		4级 Grade 4

检测标准：GB/T 3921-2009 《纺织品 色牢度试验 耐皂洗色牢度》
Test standard: GB/T 3921-2009 Color fastness to washing with soap or soap and soda

检测机构：浙江方圆检测集团股份有限公司
Tested by: Zhejiang Fangyuan Test Group Co., Ltd.

经编用氨纶

Spandex for Warp-knitting

专为经编设计，控制条件更加严苛，产品均一性高，布面更加平整美观。

Designed specifically for warp knitting, more stringent control conditions, the product has high uniformity and the cloth surface is more smooth and beautiful.

产品优势 Product superiority



高弹
High elasticity



耐高温
Temperature resistance

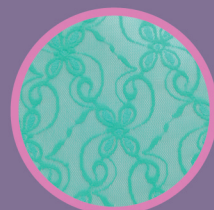


耐氯
Chlorine resistance

适用范围 Application



平布
Plain cloth



花边
Lace



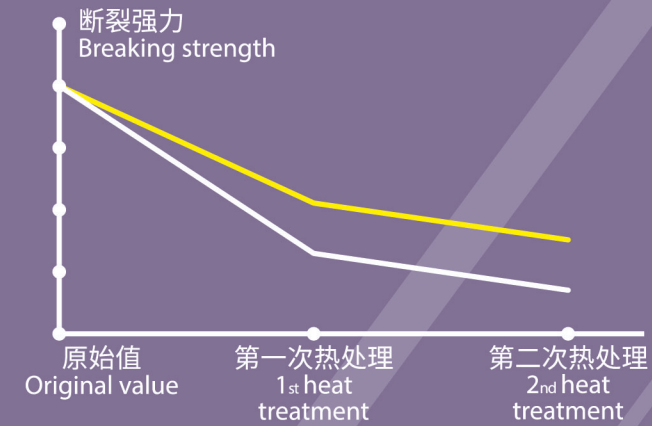
绒布
Flannel



网布
Net

耐高温曲线 High temperature-resistance curve

— 常规氨纶
Conventional spandex
— 千禧®经编用氨纶
Qianxi spandex for warp-knitting



测试条件：先185℃预定型1min，再130℃染色40min，然后190℃定型1min
Test conditions: 185°C heat-setting for 1 min, then dye at 130°C for 40min, then 190°C heat-setting 1 min.



低温易粘合氨纶

Anti-ladder Spandex

可防止织物因刮划、裁剪和反复拉伸等引起的丝线脱散、抽丝等现象，提升织物的美观性与舒适性。

It can prevent fabric from laddering caused by scratching, cutting and repeated stretching, etc., and improve the aesthetics and durability of the fabric.

产品优势

Product superiority



可粘合
Bondable



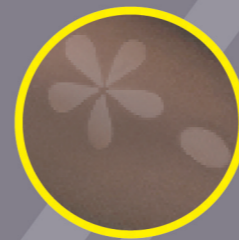
低温定型
Low heat-setting temperature

适用范围

Application

丝袜、贴身内衣等

Hosiery and lingerie, etc.



千禧®低温易粘合氨纶
Qianxi anti-ladder spandex



常规氨纶
Conventional spandex



高均一氨纶

High Uniformity Spandex

适用于高针，对布面条干和平整度要求高的高档经纬编产品。

It is suitable for high-grade warp and weft knitting products with high needles and high requirements on departmental organization and flatness.

产品优势

Product superiority



耐温
Temperature resistance



均一
Uniformity



耐氯
Chlorine resistance



高回弹
High resilience

适用范围

Application

高档经纬编织物

High-grade warp and weft knitted fabric

二次染色后强力保持率

Retention rate of breaking strength after secondary dyeing



65%
千禧®高均一氨纶
Qianxi high uniformity spandex



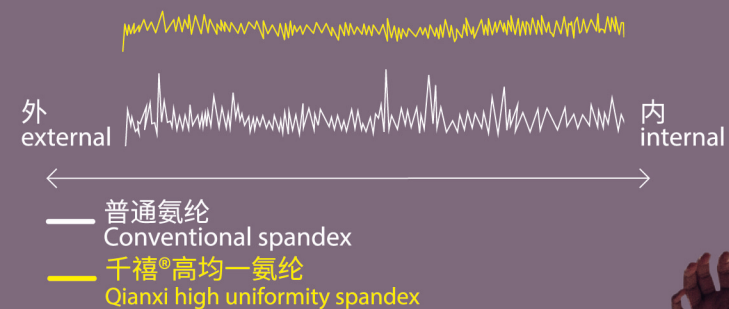
46%
常规氨纶
Conventional spandex

※测试条件：先185°C预定型1min，再130°C染色40min，然后190°C定型1min

Test conditions: first pre-form at 185°C for 1min, then dye at 130°C for 40min, then form at 190°C for 1min.

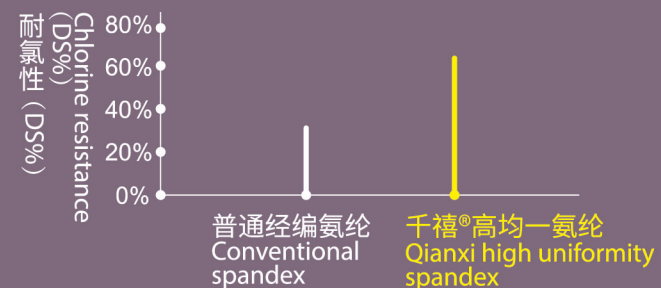
氨纶退绕应力的稳定性

Stability of unwinding stress of spandex



卓越的耐氯性能

Excellent performance of chlorine resistance



※耐氯测试条件：在50°C，pH6.0，浓度0.52g/L的次氯酸钠溶液浸泡30min，取出并测量氨纶的断裂强力DS，耐氯性%=DS(氯漂后)/DS(原始)*100%

Chlorine resistance test conditions: soak in sodium hypochlorite solution at 50°C, pH6.0, concentration 0.52g/L for 30min, take out and measure the breaking strength (DS) of spandex, chlorine resistance(%)=DS(after chlorine bleaching)/DS (original)*100%



织带用氨纶

Spandex for Narrow Fabric

符合织带的特殊要求，赋予成品良好的开度和优异的平整度。

Meet the special requirements of narrow fabric, giving the finished product a good opening and excellent flatness.

产品优势 Product superiority



高回弹
High resilience



均一
Uniformity

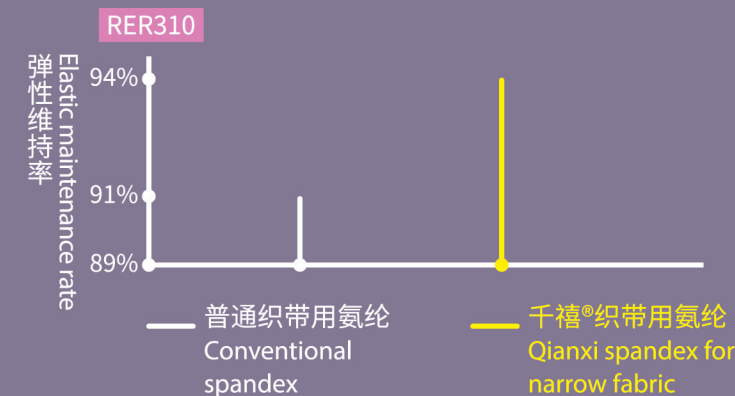
适用范围 Application

女士内衣肩带、内衣内裤腰头、口罩耳带、装饰带等

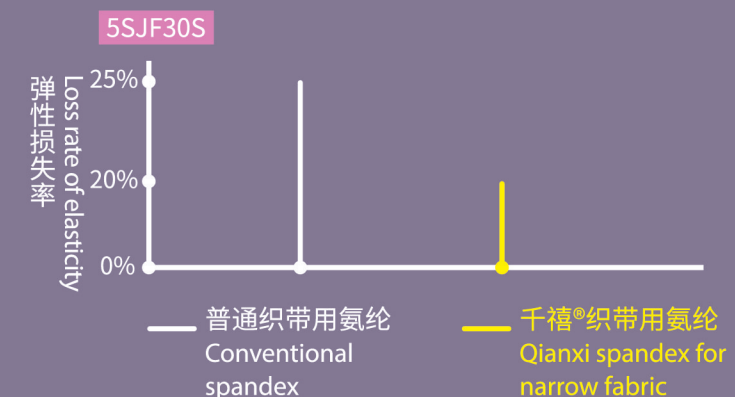
Women's lingerie shoulder straps, waistband, face mask ear loops, decorative straps, etc.



高回弹率 High rate of resilience



※RER310代表形变，其值越高说明形变越小，回弹越好。
RER310 represents deformation, the higher the value, the smaller the deformation and the better the resilience.



※5SJF30S代表弹性损失率，其值越低说明弹性损失越小，回弹越好。
5SJF30S represents the loss rate of elasticity. The lower the value, the smaller the loss of elasticity and the better the resilience.

卫材用氨纶

Spandex for Hygiene Products

替代传统的橡胶材料，可根据客户需求定制不同规格和性能的产品，采用大丝卷包装。

Instead of traditional rubber materials, products with different specifications and properties can be customized according to the needs of customer, and are packaged in large silk rolls.



※氨纶卷装外观 Appearance

产品优势

Product superiority



退绕性能优良
Excellent unwinding performance



力学性能优异
Excellent mechanical properties



大卷装
Large size package



色彩可定制
Color can be customized



可侧退 (OETO)
Over End Take Off

适用范围

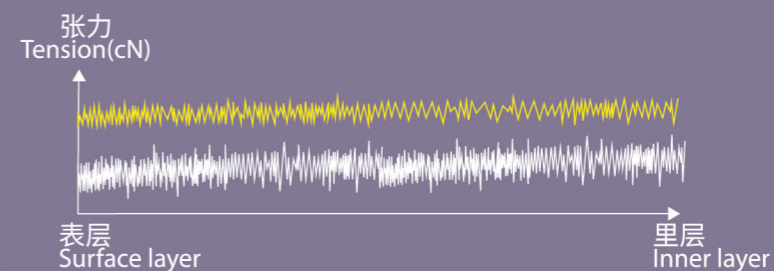
Application

普通纸尿裤、拉拉裤、环腰裤、纸尿裤、经期裤、宠物裤、医用绷带等。
Open Diapers, Pull Up, Waist Pants, Diaper Pads, Feminine Pants, Pet Diapers, Medical Bandages, etc.



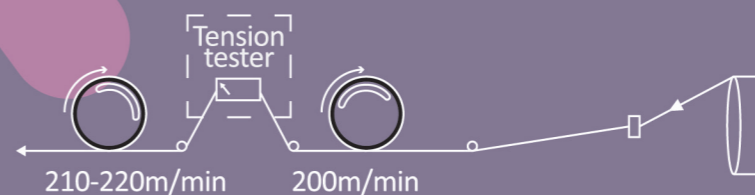
退绕过程中丝线张力变化趋势

Spandex unwinding tension fluctuation curve



千禧®卫材用氨纶
Qianxi spandex for hygiene products

竞争品牌
Competing brands



彩色氨纶

Color Spandex

能满足不同织物对色彩的要求，使织物的色彩更加绚丽持久，降低染色对环境的危害。可根据客户需求定制不同颜色的产品，纺织用氨纶中黑色和肉色已实现量产，卫材用氨纶中蓝色和红色已实现量产。

It can meet the color requirements of different fabrics, make the colors of the fabric more gorgeous and lasting, and reduce the harm of dyeing to the environment. Products of different colors can be customized according to customer needs. Regular production of black and nude color spandex for textile application, and blue and red color spandex for diaper application have been achieved.

产品优势

Product superiority



色彩绚丽
Colorful



可定制
Customizable



绿色环保
Eco-friendly

适用范围

Application

对色彩有特殊要求的氨纶织物

Spandex fabric with special requirements for color



※色彩的多样性

Diversity of colors



抗菌氨纶 *在研产品

Anti-bacterial Spandex *The Developing Product

在保证高效广谱的抗菌性能的同时，具有优良的耐洗去性，赋予织物卫生健康，持久清洁特性。
While ensuring efficient broad-spectrum antibacterial performance, it also has excellent fastness to wash, giving the fabric healthy and long-lasting cleaning properties.

技术情况 Technical situation

采用特殊原料及聚合工艺，将广谱活性抗菌成分嵌到高分子主链上，使抗菌效果高效持久。
Adopt special raw materials and polymerization technology to insert the broad-spectrum active antibacterial ingredients on the main chain of the polymer, so that the antibacterial effect is highly effective and lasting.

氨纶抗菌性能对比 Spandex yarn antibacterial performance comparison

样品 Samples	水洗次数 Wash times	大肠杆菌 Escherichia coli	金黄色葡萄球菌 Staphylococcus	白色念珠菌 Candida albicans
抗菌氨纶 Anti-bacterial spandex	20	95%	99%	90%
常规氨纶 Conventional spandex	20	16%	88%	19%
国家标准 Chinese National Standard GB/T 20944.3-2008	20	≥70%	≥70%	≥60%

检测标准：GB/T 20944.3-2008
Test standard: GB/T 20944.3-2008

检测机构：SGS通标标准技术服务（上海）有限公司
Tested by: SGS-CSTC Standard Technical Services (Shanghai) Co., Ltd.

抗菌氨纶的实际应用效果 Practical application effects of anti-bacterial spandex

样品 Samples	水洗次数 Wash times	大肠杆菌 Escherichia coli	金黄色葡萄球菌 Staphylococcus	白色念珠菌 Candida albicans
10%抗菌氨纶+ 90%常规涤纶面料 Fabric(10% anti-bacterial spandex + 90% polyester)	50	95.9%	99.5%	88.4%
11%抗菌氨纶+ 89%常规锦纶面料 Fabric(11% anti-bacterial spandex + 89% polyamide)	50	95.7%	98.7%	90.8%
抗菌针织品标准 (FZ/T 73023)AAA级 Antibacterial knitwear standard (FZ/T 73023) AAA Grade	50	≥70%	≥80%	≥60%

检测标准：FZ/T 73023-2006 抗菌针织品
Test standard: FZ/T 73023-2006 Antibacterial knitwear standard

检测机构：天纺标检测认证股份有限公司
Tested by: TianFangBiao Standardization Certification & Testing Co., Ltd.

适用范围 Application

床上用品、内衣、运动衣和医用织物等。
Beddings, underwear, sportswear and medical fabrics, etc.

芳香氨纶 *在研产品

Fragrant Spandex *The Developing Product

具有持久芳香的特性，香味由纤维芯层内添加的香精缓慢释放产生，为消费者带来迷人的体验。

Characterized with the property of persistent fragrance, the fiber produces fragrance slowly released from the added plant essential oil, which will be the fascinating experience for consumers.

■ 技术情况

Technical situation

采用具有皮芯结构的复合纤维制造技术，在纤维中建立缓释系统，既可保证优异的可纺性，又能实现香味的持久释放。

Special materials and processes are adopted to build a slow-release structure in the fiber, which can ensure not only the compatibility between the absorbent and the polyurethane system, but also the stability of the slow-release structure to realize persistent fragrance.

■ 适用范围

Application

床上用品、室内装饰织物和内衣等。

Beddings, interior decorative fabrics, underwear, etc.

可降解氨纶 *在研产品

Degradable Spandex *The Developing Product

基于环保设计理念，可降解氨纶是一种绿色高品质纤维，兼具纤维环保性与功能化，可实现生物可降解。

Based on the environment-friendly principle, the product will be a high-grade green spandex, and be able to achieve fiber degradability without compromising the function and performance at the same time.

■ 技术情况

Technical situation

采用特殊的主副原料进行物理化学改性，制造出具有生物可降解功能的环保型氨纶。

Using special raw materials and processes, the solubilizing agent, natural linear polymer material and spinning stock solution are blended and modified to prepare a degradable environmentally friendly spandex.

■ 适用范围

Application

纸尿裤等卫生产品，
医用绷带等医用产品，
其他领域，如圆机、棉包芯、经编等。

Sanitary products like disposable diapers,
Medical products like medical bandages,
Other fields like circular knitting, CSY, warp-knitting, etc.



保暖氨纶 *在研产品

Thermal Spandex *The Developing Product

具有多孔结构，能减缓体内热量往外部环境扩散的速度，达到保暖效果。

The porous structure slows down the diffusion of heat from the body to the external environment to keep the body warm.

技术情况 Technical situation

采用特殊原料及工艺，使氨纶纤维结构内部生成大量的中孔。

Using special raw materials and processes, a large number of mesopores are generated inside the spandex fiber structure.

适用范围 Application

户外服装和冬装等。

Outdoor clothing and winter clothing, etc.



生物基氨纶 *在研产品

Biobased Spandex *The Developing Product

生物基氨纶用可再生原料代替不可再生原料，向品牌以及消费者提供环保可持续的产品。

Biobased spandex substitutes renewable resource for the nonrenewable one, provide sustainable products for brands and consumers.

技术情况 Technical situation

生物基氨纶的原料来源于可再生物质——玉米芯，替代传统石油基，大大降低产品碳排放量，在环保的同时，不损失产品的基本弹性。

The raw material of the biobased spandex is from renewable resource, greatly reduce the carbon emissions of products. More eco-friendly compared with traditional petro-based spandex without compromising on the elastic performance.

适用范围 Application

可搭配环保天然纤维、生物基纤维，应用于内衣、泳衣、瑜伽、牛仔、袜子等。

Combine with eco-friendly natural fiber, biobased fiber for applications such as underwear, swimwear, yoga wear, jeans, socks, etc.

吸湿快干氨纶 *在研产品

Hygroscopic Spandex *The Developing Product

具有吸湿和排湿的结构，能有效调节体表湿度，使皮肤倍感舒适和清爽。

With a moisture absorbent and transfer structure, it can effectively adjust the body surface temperature, keep the skin dry and comfortable.

技术情况

Technical situation

采用特殊原料及工艺，建立吸湿和导湿的有机系统，使织物柔软而舒适。

Using special raw materials and processes to improve the moisture absorption and management performance of spandex, making the fabric fresh and comfortable.

适用范围

Application

内衣、运动服及户外服饰等。

Underwear, sportswear and outdoor clothing, etc.



亲水性能测试

Hydrophilic performance test

国家标准 GB/T 21655.1-2008

CK40G胚布, 80% Nylon (40D/36F) + 20% Spandex (40D)

National standard GB/T 21655.1-2008

CK40G gray fabric, 80% Nylon (40D/36F) + 20% Spandex (40D)

布样类别 Fabric type		普通氨纶 Conventional spandex	吸排助剂处理 Hygroscopic treatment	千禧®吸湿快干氨纶 Qianxi hygroscopic spandex
亲水性能测试 Hydrophilic performance test	水滴扩散时间 s Water droplet diffusion time/s	45	4.8	4.2
	芯吸高度 mm Wicking height mm	11.6	13.3	13.5
耐水洗性能 (水滴扩散时间/s) Hygroscopic property fastness to wash (Water diffusion time/s)	洗涤 0 次 Wash 0 times	/	4.8	4.2
	洗涤 5 次 Wash 5 times		8.1	3.8
	洗涤 10 次 Wash 10 times		14.5	4.0
	洗涤 30 次 Wash 30 times		21.8	4.5






低温定型氨纶 *在研产品

Eco-setting Spandex *The Developing Product

产品定型效率高，干定最低130°C，可满足高温敏感纤维的弹性面料开发需求，同时可解决分散染料经过高温定型后染料升华移染问题，提高涤纶色织弹性面料花纹清晰度。对比熔纺氨纶，其定型范围更广，成品布面弹性和稳定性更优。

With high heat setting efficiency, the heat setting temperature of its fabric can be low to 130°C. Suitable for combining with heat sensitive fibers for elastic fabric development. Also it helps to prevent the sublimating problems of disperse dyes under high heat setting temperature and color contaminate, which can increase the pattern clarity of polyester yarn-dyed elastic fabric. Compared with melt-spinning spandex, eco-setting spandex remains adequate elasticity and has stable performance and allows wider range of heat setting temperature.

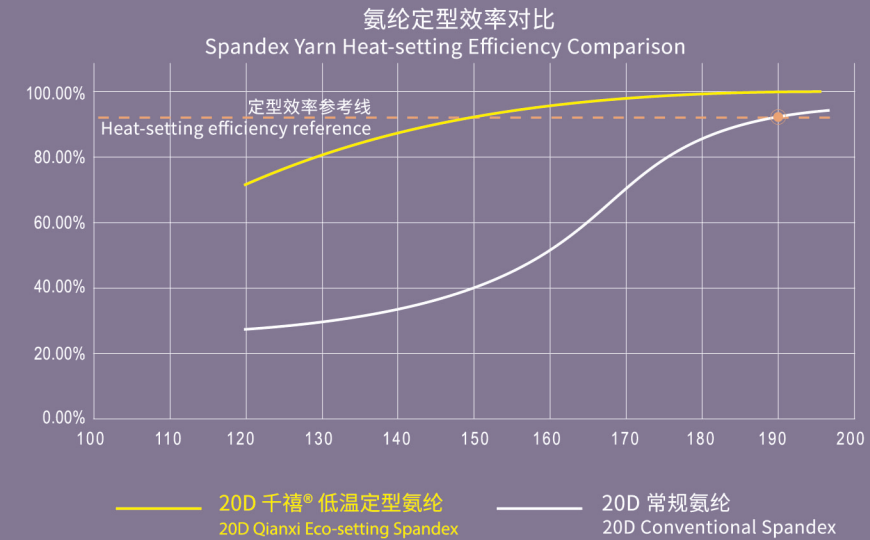
产品优势 Product superiority

-  定型效率高 High heat setting efficiency
-  性能稳定 Stable performance
-  弹性良好 Adequate elasticity
-  节省能耗 Saving energy consumption
-  可承受的定型温度范围广 Allow wider range of heat setting temperature

适用范围 Application

1. 适合搭配丙纶、环保可降解的聚乳酸纤维等对高温敏感的纤维材料。
Suitable for fibers that are sensitive to high heat setting temperature. (e.g. PP fiber, eco-friendly PLA fiber)
2. 适用于高档涤纶色织面料。
Suitable for high-grade polyester yarn-dyed elastic fabric.

氨纶定型效率对比 Spandex Yarn Heat-setting Efficiency Comparison

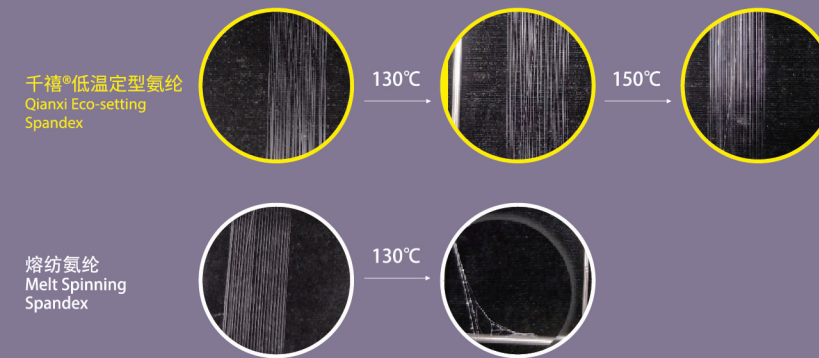


测试条件：氨纶丝在2倍牵伸下，经过2分钟的定型。
Test condition: Spandex yarn will be heat set under certain temperature for 2min with 2 times draw ratio.

$$\text{定型效率 Heat-setting Efficiency} = \frac{L_2 - L_0}{L_1 - L_0} \times 100\%$$

L0=初始长度 Initial length
L1=牵伸后长度 Length after drawing
L2=定型后长度 Length after heat setting

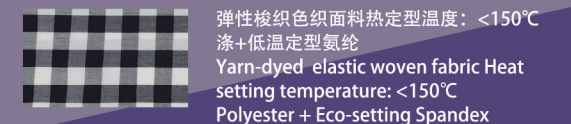
可承受的定型温度范围广 Allow wider range of heat setting temperature



在130°C下熔纺氨纶丝完全融化，丝在面料中的性能不稳定，无法支撑面料，容易导致面料门幅不一。
The melt spinning spandex is totally melted after 130°C heat setting process. The spandex yarn lose its strength and the performance become unstable, which will easily cause fabric width fluctuation.

涤纶弹性色织面料外观对比 Appearance comparison of polyester yarn-dyed elastic fabric

在高定型温度下，黑色的分散染料升华后，色移周边的白色纱线，布面偏黄。
Black disperse dyes will sublimate under high heat setting temperature and contaminate adjoining white yarns which makes the fabric looks yellowish.



千禧®氨纶用途和规格

织造类型		主要用途	15D	20D	30D	40D	55D	70D	105D	140D	210D	280D	420D	560D-1680D	2500D		
针织物	针织经编	平布	泳衣、沙滩服	●	●	●											
			内衣、赛车服、骑行服	●	●	●											
		网眼	女士内衣				●	●	●	●	●	●	●	●	●		
			女式衣服面料				●	●	●	●	●	●	●	●	●		
		花边	蕾丝								●	●	●	●	●		
			内衣辅料								●	●	●	●	●		
	超柔不倒绒	保暖衣、毛绒玩具、家居服				●	●	●									
		沙发套				●	●	●									
	针织圆机	单面布	内衣	●	●	●	●	●	●								
			T恤、瑜伽服	●	●	●	●	●	●								
		双面布	裤类面料		●	●	●	●	●								
			卫衣		●	●	●	●	●								
	袜机	——	罗口、腰口								●						
			袜子	●	●	●	●	●									
	小圆机	——	无缝内衣		●	●	●										
机织物	空气包覆纱	针织布、四面弹布	外衣		●	●	●	●	●								
			休闲运动服		●	●	●	●	●								
			西装		●	●	●	●	●								
	机械包覆纱	弹力纱	罗马布		●	●	●	●	●								
			袜口、袖口、领口		●	●	●	●	●								
			运动袜、丝袜		●	●	●	●	●								
	棉包芯纱	机织物(牛仔、华达呢、天鹅绒)	针织物、机织物		●	●	●	●	●								
			休闲运动服		●	●	●	●	●	●							
		并线(合捻纱)	圆横编织	外衣、衬衫		●	●	●	●	●	●						
				牛仔裤		●	●	●	●	●	●						
	机包	——	厚重面料			●	●	●	●								
			弹性华达呢			●	●	●	●								
厚重面料、家纺					●	●	●	●									
织带	裸丝	厚重面料			●	●	●	●									
		医疗绷带、丝袜										●	●	●	●		
尿不湿	——	纸尿裤、拉拉裤、尿片等	内裤松紧带											●	●	●	●
			内衣吊带												●	●	●
尿不湿	——	纸尿裤、拉拉裤、尿片等												●	●	●	●

Qianxi Spandex Specification and Application

Weaving Type		Applications	15D	20D	30D	40D	55D	70D	105D	140D	210D	280D	420D	560D-1680D	2500D	
Knitting Fabrics	Warp-Knitting	Tricot	Swimwear, Reachwear		●	●	●									
			Underwear, Race Suite, Cycling wear		●	●	●									
		Mesh	Panty				●	●	●	●	●	●	●	●		
			Ladies Clothes				●	●	●	●	●	●	●	●		
		Lace	Lace							●	●	●	●	●		
			Underwear Accessories							●	●	●	●	●		
	Over-soft Pile Fabric	Thermal Underwear, Plush Toys, Home Dress				●	●	●								
		Slipcover				●	●	●								
	Circular Knitting	Single-sided Cloth	Underwear	●	●	●	●	●	●	●						
			T-shirt, Yoga clothes	●	●	●	●	●	●	●						
		Double-sided Cloth	Trousers Cloths		●	●	●	●	●	●						
			Sweaters		●	●	●	●	●	●						
	Hosiery Machine	——	Underwear		●	●	●	●	●							
			Rib Top								●					
			Socks	●	●	●	●	●								
Small Circular Machine	——	Seamless Underwear		●	●	●										
Woven Fabrics	ACY	Knitting Fabrics Elastic Fabrics	Coats		●	●	●	●	●							
			Sportswear		●	●	●	●	●							
			Suits		●	●	●	●	●							
	SCY	Stretch Yarn	Knitting Rome Cloth		●	●	●	●	●							
			Socks Cuffs Collar		●	●	●	●	●							
			Sport Sock, Stocking		●	●	●	●	●							
	CSY	Woven Fabrics (Denim Gabardine Velvet)	Knitting Fabrics, Woven Fabrics		●	●	●	●	●							
			Casual and Sportswear		●	●	●	●	●	●	●					
			Coats, Shirt		●	●	●	●	●	●	●					
	Throwing (Twisted Yarn)	Circular and Flat Nitting Woven Fabrics	Jeans		●	●	●	●	●	●	●					
			Stretch Gabardine				●	●	●	●						
			Heavy Fabrics, Home Textiles				●	●	●	●						
Narrow Fabrics	SCY	——	Heavy Fabrics			●	●	●	●							
			Medical Bandage, Stockings										●	●	●	●
			Underwear Elastic Band										●	●	●	●
Diapers	——	Bare Yarn	Underwear Sling										●	●	●	●
Diapers	——	——	Baby Diapers, Adult Diapers, Diapers										●	●	●	●

联系方式

Contact Information



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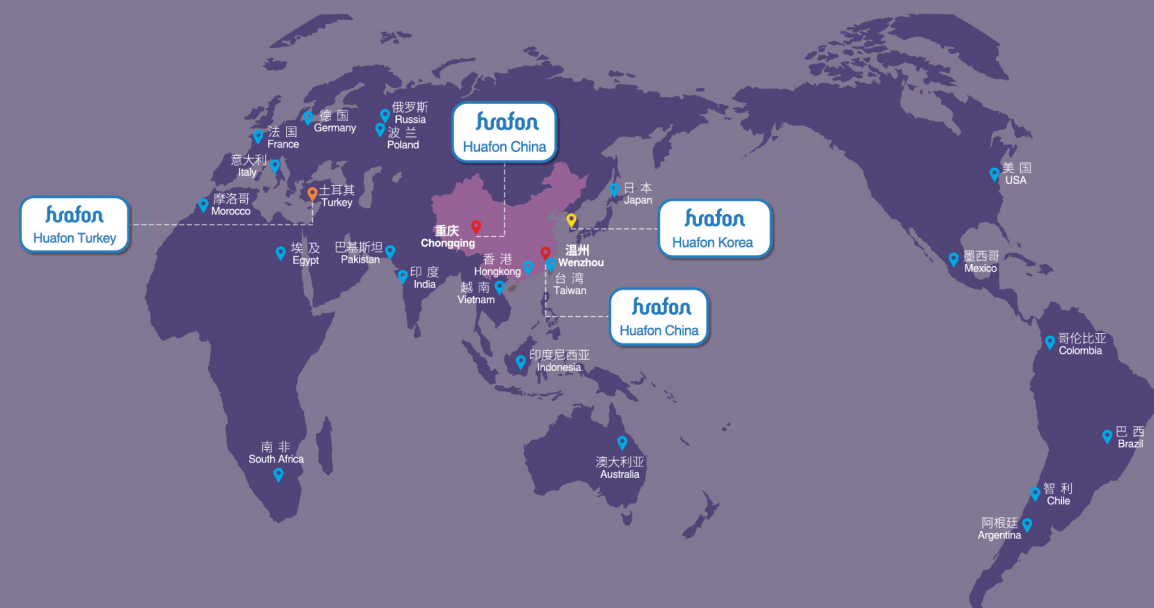
生产基地
Production bases

营销办事处
Sales office

销售区域
Sales areas

华峰对外贸易有限公司
Huaфон Foreign Trade Joint Stock Company

华峰韩国株式会社
Huaфон Korea Corporation



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