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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。

- Continuous polymerization and dry spinning technology;
- Uniform evenness and stable quality;
- The product luster: semi-dull and clear.

产品 Products

- 生产范围 Production Range

  10～1200D

应用 Applications

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.
氨纶—易定型
Spandex- Easy set

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 temperature for setting is 8~10℃ lower than that of normal spandex;
- The dyeing performance is better than that of normal 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

应用  Applications
使用氨纶与锦纶交织的织物
Spandex and nylon interwoven fabric.

- 弹力裤
  Stretch pants
- 瑜伽服
  Yoga clothes
- 内衣
  Underwear
- 运动服
  Sportswear
氨纶－耐氯
Spandex-Chlorine resistant

<table>
<thead>
<tr>
<th>原理  Principle</th>
</tr>
</thead>
</table>
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.

<table>
<thead>
<tr>
<th>优点  Advantages</th>
</tr>
</thead>
</table>
- 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.

<table>
<thead>
<tr>
<th>产品  Products</th>
</tr>
</thead>
</table>
- **生产范围  Production Range**
  20~420D

- **代表产品  Typical products**
  20D, 30D, 40D, 50D, 60D, 70D

<table>
<thead>
<tr>
<th>应用  Applications</th>
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</thead>
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适用于氨纶与锦纶交织的织物
Suitable for spandex and nylon interwoven fabric

<table>
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<tr>
<th>高浓度氯环境下耐氯性能  Chlorine resistance in high-concentration chlorine environment</th>
<th>断裂强力维持率  Maintenance rate of breaking strength</th>
<th>300%伸长下强力维持率  Strength maintenance rate at 300% elongation</th>
</tr>
</thead>
<tbody>
<tr>
<td>常规氨纶  Normal spandex</td>
<td>4%</td>
<td>11.5%</td>
</tr>
<tr>
<td>恒申耐氨氯氨 HSCC Chlorine-resistant Spandex</td>
<td>53.5%</td>
<td>64.5%</td>
</tr>
</tbody>
</table>

- 经编泳装布  Warp knitting swimsuit
- 网眼布  Mesh Fabric
- 牛仔  Jeans
氨纶-黑丝
Spandex-Black

原理 Principle
采用原液着色技术，色浆与熔体充分混合制备黑丝氨纶。
Black spandex is produced by mixing color paste and melt completely with dope dyeing technology.

特点 Features
氨纶面料在普通染色环境下存在“氨纶染色优先”现象，恒申黑丝氨纶无需染色。
There is a phenomenon of “nylon dyeing first” in nylon fabric under general dyeing environment, and HSCC black spandex needs no dyeing.

优点 Advantages
- 无需染色，低碳环保;
  No dyeing, low carbon and environmental protection;
- 光泽柔和，颜色均一，永不褪色;
  Soft luster, uniform color with fastness;
- 条干均匀，耐氯、耐高温。
  Uniform evenness, chlorine resistance and high temperature resistance.

产品 Products
- 生产范围 Production Range
  20D-70D

应用 Applications
各类黑色弹力织物
All kinds of black stretch fabric

花边 Lace
织带 Ribbons
塑身服 Body-shaping suit
弹力带 Elastic belt
泳装 Swimwear
网眼布 Mesh cloth
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。
Good 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~70D

### 代表产品 Typical Products

<table>
<thead>
<tr>
<th>类别 Category</th>
<th>规格 Specification</th>
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<tbody>
<tr>
<td>无缝内衣 Seamless underwear</td>
<td>100D, 140D, 210D, 280D</td>
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<tr>
<td>高密度网布 High-density mesh</td>
<td>100D, 140D, 210D, 280D, 420D</td>
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### 应用 Applications

- 袜口 Socks
- 袖口 Cuffs
- 腰口 Waist
- 织带 Ribbon
- 平布 Plain Cloth
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 control 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。

HSBC 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