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## 多功能精练酶 TK-110A

主要成分	无机盐、表面活性剂	
技术指标	外观	白色粉末
	pH 值（1‰水溶液）	≥10.5

### 性能及特点

1. 在前处理工艺中无需使用烧碱或减少烧碱用量，集精练剂、螯合分散剂、氧漂稳定剂于一体，具有使用简单方便，显著降低工艺成本的特点。
2. 精练效果优良，用碱量低，失重率低，明显提高前处理织物经精练后的手感、毛效；具有较强的铁离子螯合力，能有效改善织物长车加工的氧漂破洞。
3. COD 值低，废水排放低。
4. 溶解性能优良，可以在冷水中溶解。
5. 该产品适合家纺织物长车前处理与增白剂同浴加工工艺，与增白剂复配使用稳定性好，可以防止加工使用中增白剂中染料的析出，产生色点等问题。

### 适用范围

适用于全棉机织或针织物间歇式以及连续式的前处理。

### 使用方法

1. 棉机织物碱氧一浴汽蒸工艺：  
TK-110A: 20-30g/L, H<sub>2</sub>O<sub>2</sub> (100%): 8-10g/L, 温度: 98-102℃, 汽蒸时间: 60-90min。
2. 棉机织物冷堆工艺：  
NaOH (100%): 10-25g/L, TK-110A: 20-30g/L, H<sub>2</sub>O<sub>2</sub> (100%): 13-17g/L, 常温堆置 16-24h, 碱洗, 热洗。
3. 棉针织物碱氧一浴漂白工艺：  
TK-110A : 2-3g/L, H<sub>2</sub>O<sub>2</sub> (27.5%): 5-7g/L, 温度: 95-98℃, 时间: 40-60min。  
具体工艺请用户通过试样酌情调整。

### 包装与贮存

25 千克编织袋，密封避光贮存，常温下保质期 12 个月。

## scouring enzyme TK-110A

Main ingredients, inorganic salts, surfactants

Technical indicators Appearance White powder

pH value (1 ‰ aqueous solution)  $\geq 10.5$

### Performance and characteristics

1. In the pre-treatment process, it is not necessary to use caustic soda or reduce the amount of caustic soda, and the scouring agent, the chelating dispersing agent and the oxygen bleaching stabilizer are integrated into one, which has the characteristics of simple and convenient use and remarkable reduction of process cost.
2. Excellent refining effect, low alkali content, low weight loss rate, obviously improve the hand feeling and hair effect of the pre-treated fabric after refining; has strong iron ion chelation force, can effectively improve the oxygen bleaching hole of fabric long car processing .
3. Low COD value and low wastewater discharge.
4. Excellent solubility and can be dissolved in cold water.
5. The product is suitable for the pre-treatment of the textile fabric with the whitening agent and the same bath processing technology. It has good stability with the whitening agent. It can prevent the precipitation of dyes in the whitening agent during processing and produce color points. .

### Scope of application

Suitable for intermittent and continuous pre-treatment of cotton woven or knitted fabrics.

### Instructions

1. Cotton woven fabric alkali-oxygen one-bath steaming process:  
TK-110A: 20-30 g/L, H<sub>2</sub>O<sub>2</sub> (100%): 8-10 g/L, temperature: 98-102 ° C, steaming time: 60-90 min.
2. Cotton fabric cold reactor process:  
NaOH (100%): 10-25g/L, TK-110A: 20-30g/L, H<sub>2</sub>O<sub>2</sub> (100%): 13-17g/L, stacked at room temperature for 16-24h, alkaline washing, hot washing.
3. Cotton knit compound alkaline oxygen one bath bleaching process:  
TK-110A  
: 2-3 g / L, H<sub>2</sub>O<sub>2</sub> (27.5%): 5-7 g / L, temperature: 95-98 ° C, time: 40-60 min.

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

25kg woven bag, sealed and protected from light, shelf life of 12 months at room temperature.

## 高效精练剂 TK-111B

主要成分	表面活性剂复配物	
技术指标	外观	浅黄色透明液体
	含固量 (%)	24.0-26.0
	pH 值 (1%水溶液)	6.0-7.0
	离子性	阴/非

### 性能及特点

1. 拥有优良的耐碱稳定性，200g/L 氢氧化钠水溶液中仍具有良好的稳定性。
2. 具有优良的耐碱渗透性，确保棉织物连续前处理加工时的带液率，提高精练效果。
3. 精练与渗透二合一，从而使棉织物获得良好的精练效果。

### 适用范围

适用于棉及其混纺织物长车前处理，尤其适用于冷轧堆工艺。

### 使用方法

1. 连续退煮汽蒸工艺：

TK-111B: 7-12g/L, NaOH: 40-60g/L

温度: 98-102℃, 汽蒸时间: 60-90min。

2. 冷轧堆前处理工艺：

TK-111B: 7-15g/L, NaOH: 40-70g/L, H<sub>2</sub>O<sub>2</sub> (100%): 10-15g/L

35℃堆置 16-24h, 再短蒸, 碱洗, 热洗。

具体工艺请用户通过试样酌情调整。

### 注意事项

若在寒冷季节, 产品出现结冻, 则需要在温室中, 待融化后再使用, 不影响使用效果。

### 包装与贮存

120 千克塑料桶, 密封避光贮存, 常温下保质期 12 个月。

## Refining agent TK-111B

Main ingredient surfactant compound

Technical indicators Appearance Light yellow transparent liquid

Solid content (%) 24.0-26.0

pH (1% aqueous solution) 6.0-7.0

Ionic Yin/non

### Performance and characteristics

1. Has excellent alkali stability, and still has good stability in 200g/L sodium hydroxide aqueous solution.
2. It has excellent alkali-resistant permeability, ensuring the liquid-carrying rate of cotton fabric continuous pre-treatment and improving the refining effect.
3. Refining and infiltrating two in one, so that the cotton fabric has a good refining effect.

### Scope of application

It is suitable for pre-treatment of cotton and its blended fabrics, especially for cold-rolled pile processes.

### Instructions

1. Continuous de-cooking steaming process:

TK-111B: 7-12g/L, NaOH: 40-60g/L

Temperature: 98-102 ° C, steaming time: 60-90 min.

2. Cold rolling reactor pretreatment process:

TK-111B: 7-15g/L, NaOH: 40-70g/L, H<sub>2</sub>O<sub>2</sub> (100%): 10-15g/L

Stack at 35 ° C for 16-24h, then steam, alkali wash, hot wash.

The specific process should be adjusted by the user as appropriate.

### Precautions

If the product freezes during the cold season, it needs to be used in the greenhouse until it is melted, without affecting the use effect.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 氧漂稳定剂 TK-112CC

主要成分	多种金属络合剂的复合物	
技术指标	外观	浅黄色至黄色透明液体
	含固量 (%)	50.0-52.0
	pH 值 (1%水溶液)	6.0-7.0
	离子性	阴
	溶解性	易溶于水

### 性能及特点

1. 非硅稳定剂，具有螯合、分散性能，能有效控制双氧水的分解速度，避免双氧水过度分解造成强损。
2. 耐强碱、耐高温，在高温高碱条件下漂白具有优异的白度。

### 适用范围

适用于棉、麻、人棉及其混纺织物的碱氧一浴、冷堆及连续汽蒸氧漂工艺中用做双氧水稳定剂。

### 使用方法

1. TK-112CC 为浓缩产品，可以开稀 1 化 3-5 后按普通产品使用，也可减少用量直接使用。
2. 冷堆工艺：用量 2-3g/L；  
连续汽蒸碱氧一浴氧漂工艺：用量 2-3g/L；  
单独汽蒸氧漂工艺：用量 1-1.5g/L。
3. 间歇式碱氧一浴工艺：用量 0.2-0.3g/L。  
具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 12 个月

## Oxygen bleaching stabilizer TK-112CC

Main component, complex of various metal complexing agents

Technical Specifications Appearance Light yellow to yellow transparent liquid

Solid content (%) 50.0-52.0

pH (1% aqueous solution) 6.0-7.0

Ionic Yin

Solubility soluble in water

### Performance and characteristics

1. Non-silicon stabilizer, with chelation and dispersing properties, can effectively control the decomposition rate of hydrogen peroxide, and avoid excessive damage caused by excessive decomposition of hydrogen peroxide.
2. It is resistant to strong alkali and high temperature, and has excellent whiteness under high temperature and high alkali conditions.

### Scope of application

It is suitable for use as a hydrogen peroxide stabilizer in alkaline oxygen one-bath, cold reactor and continuous steaming oxygen bleaching processes for cotton, hemp, human cotton and its blended fabrics.

### Instructions

1. TK-112CC is a concentrated product, which can be used for ordinary products after being diluted 3-5, and can also be used directly.
  2. Cold heap process: dosage 2-3g / L;  
Continuous steaming alkaline oxygen one bath oxygen bleaching process: dosage 2-3g / L;  
Steaming oxygen bleaching process: 1-1.5g/L.
  3. Batch alkaline oxygen one bath process: dosage 0.2-0.3g / L.
- The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and protected from light, shelf life at room temperature for 12 months



## 螯合分散剂 TK-113A

主要成分	有机酸类络合剂，不含丙烯酸盐和表面活性剂		
技术指标	外观	无色透明液体	
	含固量 (%)	32.0-34.0	
	pH 值 (1%水溶液)	3.5-5.5	
	离子性	阴	
	溶解性	易溶于水	
	螯合力 (mg/g)	Ca <sup>2+</sup> ≥120	Fe <sup>3+</sup> ≥200

### 性能及特点

1. 优异的络合能力。
2. 良好的分散和悬浮作用，较强的阻垢、化垢功能，有效防止设备及织物沾污。
3. 优异的耐酸、碱、氧化剂、还原剂性能。
4. 与前处理和染色一般助剂具有良好的相容性。
5. 不影响染色色光和织物白度。
6. 无泡沫产生。

### 适用范围

适用于水处理，棉及其混纺织物的精练漂白，粘胶纤维织物的退浆和脱硫，涤纶织物精练及碱减量、各种织物染色、印花后水洗等加工。

### 使用方法

1. 水处理：0.05-0.2g/L
2. 碱性条件煮练：1-3g/L
3. 纤维素纤维的双氧水漂白：1-2g/L（一般 pH 值要求不超过 10.5）
4. 涤纶碱减量及染色后清缸：TK-113A: 2-4g/L, NaOH: 20-30g/L, 洗涤剂: 2-3g/L  
温度: 130℃, 保温时间: 30min
5. 涤纶织物染色、印花后皂洗并防沾污：2-3g/L
6. 一般皂洗：0.1-2g/L
7. 毛织物缩呢后冲洗：2-3g/L

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 12 个月。

## Chelating dispersant TK-113A

Main ingredients Organic acid complexing agent, free of acrylates and surfactants

Technical indicators Appearance Colorless transparent liquid

Solid content (%) 32.0-34.0

pH (1% aqueous solution) 3.5-5.5

Ionic Yin

Solubility soluble in water

Chelation force (mg/g)  $\text{Ca}^{2+} \geq 120$   $\text{Fe}^{3+} \geq 200$

### Performance and characteristics

1. Excellent complexing ability.
2. Good dispersion and suspension, strong scale inhibition and scalping function, effectively prevent equipment and fabric from staining.
3. Excellent acid, alkali, oxidant and reducing agent properties.
4. It has good compatibility with pre-treatment and dyeing general additives.
5. Does not affect the dyed shade and fabric whiteness.
6. No foam is produced.

### Scope of application

It is suitable for water treatment, scouring and bleaching of cotton and its blended fabrics, desizing and desulfurization of viscose fiber fabrics, scouring of polyester fabrics and reduction of alkali, dyeing of various fabrics, washing after printing, etc.

### Instructions

1. Water treatment: 0.05-0.2g/L
  2. Basic conditions scouring: 1-3g/L
  3. Hydrogen peroxide bleaching of cellulose fiber: 1-2g/L (normal pH requirement does not exceed 10.5)
  4. Polyester alkali reduction and dyeing after cleaning: TK-113A: 2-4g/L, NaOH: 20-30g/L, detergent: 2-3g/L
- Temperature: 130 ° C, holding time: 30 min
5. Polyester fabric dyeing, soaping after printing and anti-staining: 2-3g/L
  6. General soaping: 0.1-2g/L
  7. Rinse the wool fabric after shrinking: 2-3g/L

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 高浓高效退浆剂 TK-114C

主要成份	表面活性剂及高分子聚合物复配物	
技术指标	外观	淡黄色透明液体
	含固量 (%)	57.0-59.0
	离子性	阴/非
	溶解性	易溶于水

### 性能及特点

1. 具有优异的耐碱煮性，可耐碱煮液碱 300 克/升。
2. 在高碱条件下，可以有效去除化纤织物上的丙烯酸酯类的化学浆料，明显改善手感。
3. 表面活性剂与高分子聚合物赋予产品优良的净洗力、分散性及防沾污性能，从而有效防止浆料的凝聚和返沾。
4. 与碱、双氧水复配稳定性好，耐碱性高，能适用于碱氧一浴及冷堆工艺。

### 适用范围

适用于对涤纶、锦纶等化纤织物及其混纺织物的卷染机退浆、长车汽蒸退浆、长车快速退浆工艺。尤其适用于高支高密尼丝纺、涤塔夫、化纤装饰布的退浆工艺。

### 使用方法

#### 1. 连续式退浆工艺：（轧槽配方）

TK-114C	0.5-1.5g/L
螯合分散剂 TK-113A	1.0-2.0 g/L
液碱(30%)	40-300 g/L

工作液温度 90-95℃以上，水洗温度 85℃以上，车速 40-60m/min  
用量、车速、轧槽工艺的设置需根据织物、浆料情况、加工要求等进行调整。

#### 2. 卷染机退浆工艺：

TK-114C	0.5~1.0%(o.w.f)
螯合分散剂 TK-113A	0.5-1.0%(o.w.f)
液碱(30%)	40-300g/L （用碱量根据织物具体制定）

温度 98-100℃，时间 30-40min

具体工艺请用户通过试样后酌情调整。

### 包装与贮存

120 千克塑料桶，密封贮存，常温下保存期为 12 个月。

## Desizing agent TK-114C

Main ingredients Surfactant and polymer compound

Technical indicators Appearance Light yellow transparent liquid

Solid content (%) 57.0-59.0

Ionic Yin/non

Solubility soluble in water

### Performance and characteristics

1. It has excellent alkali-resistant boilability and can resist alkali-cooking liquid alkali 300g/L.
2. Under high alkali conditions, the chemical slurry of acrylate on the chemical fiber fabric can be effectively removed, and the hand feeling is obviously improved.
3. Surfactants and high molecular polymers give the product excellent cleansing power, dispersibility and anti-staining properties, thus effectively preventing the coagulation and back-dipping of the slurry.
4. It has good stability with alkali and hydrogen peroxide, high alkali resistance, and can be applied to alkaline oxygen one bath and cold reactor process.

### Scope of application

It is suitable for the desizing of the dyeing machine for polyester fiber, nylon and other chemical fiber fabrics and their blended fabrics, steaming and desizing of long cars, and rapid desizing of long cars. It is especially suitable for the desizing process of high-density silk spinning, polyester taffeta and chemical fiber decorative cloth.

### Instructions

1. Continuous desizing process: (grooving formula)

TK-114C 0.5-1.5g/L

Chelating dispersant TK-113A 1.0-2.0 g/L

Liquid alkali (30%) 40-300 g/L

Working fluid temperature above 90-95 ° C, washing temperature above 85 ° C, vehicle speed 40-60m/min

The dosage, speed, and groove setting process should be adjusted according to the fabric, slurry conditions, processing requirements, etc.

2. Jigger desizing process:

TK-114C 0.5~1.0%(o.w.f)

Chelating dispersant TK-113A 0.5-1.0% (o.w.f)

Liquid alkali (30%) 40-300g/L (specifically based on the amount of alkali)

Temperature 98-100 ° C, time 30-40min

The specific process should be adjusted by the user after passing the sample.

### Packaging and storage

120 kg plastic drum, sealed and stored, the shelf life is 12 months at room temperature.

## 精练去油剂 TK-118

主要成分	特殊支链表面活性剂复配物	
技术指标	外观	浅黄色透明液体
	含固量 (%)	28.0-30.0
	pH 值 (1%水溶液)	6.0-7.0
	离子性	阴/非

### 性能及特点

1. 在近中性及弱酸性浴中，能充分乳化、分散油剂，对于去除化纤油剂有独到功效，适用于涤纶针织练染同浴染色工艺中，色光影响小。
2. 低温 70-80℃，中性条件去除不耐碱织物的油污（如丝、毛、含金银丝织物）效果明显，不损伤纤维。
3. 碱性条件，在全棉及其混纺织物的精练去油同浴中，具有优异的精练和去油污效果。
4. 在中性及弱碱性浴中，对于含氨纶织物复配强力去油剂 TK-118，在净洗去油的同时能更有效地乳化、分散氨纶织物上的油剂，防止油剂再沾污。

### 适用范围

适用于涤纶针织等织物的练染同浴工艺、装饰布的低温去油工艺以及棉及其混纺织物的精练去油工艺。

### 使用方法

1. 涤纶针织练染同浴工艺：  
TK-118: 0.5-1g/L, 高温匀染剂: 0.7-1.0g/L, 冰醋酸: 0.4-0.6mL/L, 染料: X,  
浴比: 1:10, 温度: 130℃, 时间: 30-60min。
2. 精练去油工艺: (棉针织及其混纺织物)  
TK-118: 0.5-2g/L, NaOH: 2g/L, H<sub>2</sub>O<sub>2</sub> (27.5%): 5g/L,  
浴比: 1:10, 温度: 95-98℃, 时间: 40-60min。
3. 装饰布低温去油工艺  
TK-118: 0.5-1g/L, 温度: 70-80℃, 时间: 30-60min。

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 12 个月。

## Degreaser TK-118

Main ingredient special branched surfactant compound

Technical indicators Appearance Light yellow transparent liquid

Solid content (%) 28.0-30.0

pH (1% aqueous solution) 6.0-7.0

Ionic yin/non

### Performance and characteristics

1. In the near neutral and weak acid bath, it can fully emulsify and disperse the oil agent, which has unique effect on removing the chemical fiber oil agent. It is suitable for the polyester bathing dyeing and dyeing process, and the color light has little effect.
2. Low temperature 70-80 ° C, neutral conditions to remove the oil stains of alkali-resistant fabrics (such as silk, wool, gold-silver fabrics), the effect is obvious, does not damage the fibers.
3. Alkaline conditions, in the scouring and oil-free bath of cotton and its blended fabrics, have excellent refining and degreasing effects.
4. In the neutral and weakly alkaline bath, the strong degreaser TK-118 with spandex fabric can effectively emulsify and disperse the oil on the spandex fabric while cleaning the oil to prevent oil. Stain again.

### Scope of application

It is suitable for the dyeing and bathing process of polyester knit fabrics, the low-temperature degreasing process of decorative fabrics, and the scouring and degreasing process of cotton and its blended fabrics.

### Instructions

1. Polyester knit dyeing and bathing process:

TK-118: 0.5-1g/L, high temperature leveling agent: 0.7-1.0g/L, glacial acetic acid: 0.4-0.6mL/L, dye: X,

Bath ratio: 1:10, temperature: 130 ° C, time: 30-60 min.

2. Refined oil removal process: (cotton knitting and blended fabric)

TK-118: 0.5-2g/L, NaOH: 2g/L, H<sub>2</sub>O<sub>2</sub> (27.5%): 5g/L,

Bath ratio: 1:10, temperature: 95-98 ° C, time: 40-60 min.

3. Decorative cloth low temperature degreasing process

TK-118: 0.5-1 g/L, temperature: 70-80 ° C, time: 30-60 min.

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 耐碱渗透剂 TK-119B

主要成分	特种阴离子表面活性剂复配物	
技术指标	外观	浅黄色粘稠液体
	含固量 (%)	60.0-64.0
	pH 值 (1%水溶液)	7.0-9.0
	离子性	阴/非

### 性能及特点

在 0-240g/L NaOH 碱浴中均具有优异的稳定性及优异的渗透性,可提高织物在高碱条件下的渗透性、润湿性和带液率。

### 适用范围

适用于棉机织物的前处理冷堆、煮练以及丝光等高碱工艺。

### 使用方法

一般用量: 1-5g/L

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶,密封避光贮存,常温下保质期 12 个月。

## **Alkali-resistant penetrant TK-119B**

Main ingredients special anionic surfactant compound

Technical Specifications Appearance Light yellow viscous liquid

Solid content (%) 60.0-64.0

pH (1% aqueous solution) 7.0-9.0

Ionic yin/non

### **Performance and characteristics**

It has excellent stability and excellent permeability in 0-240g/L NaOH alkali bath, which can improve the permeability, wettability and liquid-liquid ratio of fabric under high alkali conditions.

### **Scope of application**

Suitable for pre-treatment of cotton woven fabrics, scouring and high alkali processes such as mercerizing.

### **Instructions**

General dosage: 1-5g/L

The specific process should be adjusted by the user as appropriate.

### **Packaging and storage**

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.



## 涤纶超细纤维高温匀染剂 TK-312K 浓

主要成分	特种表面活性剂复合物	
技术指标	外 观	黄色粘稠液体
	含固量 (%)	78.0-80.0
	pH 值 (1%水溶液)	5.0-7.0
	离子性	阴/非

### 性能及特点

1. 优良的高温分散稳定性，防止染色过程中染料凝聚。
2. 移染能力强，确保整个染色过程中对染料移染的要求，提高匀染效果。
3. 消色性小，染色重现性好。
4. 化料方便，可实现直接冷水化料。
5. 低泡。

### 适用范围

适用于涤纶特别是超细涤纶织物及其混纺织物的高温高压染色。

### 使用方法

用于涤纶及其混纺织物高温染色，可按常规工艺进行。

用 量:	0.15-1.0g/L
浴 比:	1 : 10
染色温度:	125-130℃
保温时间:	30-60min

化料方法：建议在室温条件下，以 1 化 6 或以上的比例化料，搅拌均匀，化好后的产品为无色半透明到浅黄色透明外观。

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 12 个月。

## Levelling agent TK-312K thick

Main ingredients special surfactant complex

Technical Specifications Appearance Yellow viscous liquid

Solid content (%) 78.0-80.0

pH (1% aqueous solution) 5.0-7.0

Ionic yin/non

### Performance and characteristics

1. Excellent high temperature dispersion stability to prevent dye condensation during dyeing.
2. Strong transfer ability, ensuring the dye transfer requirements in the whole dyeing process, and improving the leveling effect.
3. Small color reduction and good dye reproducibility.
4. The material is convenient and can realize direct cold water.
5. Low foaming.

### Scope of application

It is suitable for high temperature and high pressure dyeing of polyester, especially ultrafine polyester fabric and its blended fabric.

### Instructions

It is used for high temperature dyeing of polyester and its blended fabrics, which can be carried out according to the conventional process.

Usage: 0.15-1.0g/L

Bath ratio: 1:10

Dyeing temperature: 125-130 ° C

Holding time: 30-60min

Chemical method: It is recommended to use a ratio of 1 to 6 or above at room temperature, stir evenly, and the finished product is a colorless translucent to pale yellow transparent appearance.

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 涤纶超细纤维高温匀染剂 TF-312W

主要成分	特殊表面活性剂复合物	
技术指标	外观	棕红色液体
	含固量 (%)	20.0-22.0
	pH 值 (1%水溶液)	5.0-7.0
	离子性	阴/非

### 性能及特点

1. 优异的高温分散性，防止染色过程中染料凝聚。
2. 移染能力强，确保整个染色过程中对染料移染的要求，提高匀染。
3. 消色性小，可得到很好的染色再现性。
4. 化料方便、可实现直接冷水化料。

### 适用范围

适用于涤纶，特别是超细涤纶织物的高温高压染色。

### 使用方法

用于涤纶及其混纺织物高温染色，可按常规工艺进行。

用量	0.3-1.5g/L
浴比	1 : 10
染色温度	125-130℃
保温时间	30-60min

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 12 个月。

## Leveling agent TF-312W

Main ingredient special surfactant complex

Technical indicators Appearance Brown red liquid

Solid content (%) 20.0-22.0

pH (1% aqueous solution) 5.0-7.0

Ionic yin/non

### Performance and characteristics

1. Excellent high temperature dispersibility to prevent dye condensation during dyeing.
2. Strong transfer ability, ensuring dye transfer requirements throughout the dyeing process, and improving leveling.
3. The color reduction is small, and good dye reproducibility can be obtained.
4. The material is convenient and can realize direct cold water.

### Scope of application

Suitable for high temperature and high pressure dyeing of polyester, especially ultrafine polyester fabric.

### Instructions

It is used for high temperature dyeing of polyester and its blended fabrics, which can be carried out according to the conventional process.

The amount is 0.3-1.5g/L

Bath ratio 1:10

Dyeing temperature 125-130 ° C

Holding time 30-60min

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 高温匀染剂 TK-312B

主要成分	特种表面活性剂复合物	
技术指标	外 观	淡黄色至黄色液体
	含固量 (%)	23.0-25.0
	pH 值 (1%水溶液)	5.0-7.0
	离子性	阴/非

### 性能及特点

1. 对不同水质（河水、井水、硬水等）具有广泛的适应性能。
2. 耐盐性能优良，稀释液在 30g/L 元明粉的环境下，性能保持不变。
3. 优良的高温分散稳定性，确保染色过程中无染料凝聚。
4. 移染能力强，确保整个染色过程中对染料移染的要求，提高匀染效果。
5. 消色性小，染色重现性好。
6. 低泡。

### 适用范围

适用于 T/C、T/R 用分散、直接混纺染料的一浴法染色；也可用于涤纶超细纤维的染色。

### 使用方法

本品用于涤纶混纺织物高温染色，可按常规工艺进行。

用 量	0.5-2.0g/L
浴 比	1 : 10
染色温度	125-130℃
保温时间	30-60min

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 12 个月。

## Levelling agent TK-312B

Main ingredients special surfactant complex

Technical Specifications Appearance Light yellow to yellow liquid

Solid content (%) 23.0-25.0

pH (1% aqueous solution) 5.0-7.0

Ionic yin/non

### Performance and characteristics

1. It has wide adaptability to different water quality (river water, well water, hard water, etc.).
2. Excellent salt tolerance, the performance of the dilution in the environment of 30g / L yuan powder, the performance remains unchanged.
3. Excellent high temperature dispersion stability to ensure no dye condensation during dyeing.
4. Strong dyeing ability, ensuring the dye dyeing requirements in the whole dyeing process and improving the leveling effect.
5. The color is small and the dyeing reproducibility is good.
6. Low foaming.

### Scope of application

It is suitable for one-bath dyeing of dispersed/direct blended dyes for T/C and T/R; it can also be used for dyeing polyester microfibers.

### Instructions

This product is used for high temperature dyeing of polyester blended fabrics, which can be carried out according to the conventional process.

The amount is 0.5-2.0g/L

Bath ratio 1:10

Dyeing temperature 125-130 ° C

Holding time 30-60min

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 三元共聚棉用固色剂 TK-211H

主要成分	具有特殊反应基团的高分子聚合物	
技术指标	外 观	棕黄色至棕红色粘稠液体
	含固量 (%)	45.0-48.0
	pH 值 (1%水溶液)	2.5-4.5
	离子性	阳/非
	溶解性	易溶于水

### 性能及特点

1. 显著提高织物的耐洗，汗渍，海水，唾液，高温水泡等湿处理牢度。
2. 适用颜色范围广，对大红，黑色，咖啡，翠兰，艳蓝等色系活性染料的染色及印花织物色牢度均有明显改善作用。
3. 固色色变小，固色重现性好。
4. 对染色织物的手感和亲水性影响极小。
5. 水溶性好，可以直接使用或按需要稀释后使用。

### 适用范围

活性染料染色及印花织物改善色牢度适用，特别满足高牢度要求的织物固色处理。

### 使用方法

1. 浸固工艺：

用 量	0.2-1.0% (o.w.f)
pH 值	5-7
温 度	40°C-60°C
时 间	20-30min

2. 轧固工艺：一般用量 2-10g/L。

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 12 个月。

## Fixing agent TK-211H

Main component High molecular polymer with special reactive groups

Technical Specifications Appearance Brownish yellow to brownish red viscous liquid

Solid content (%) 45.0-48.0

pH (1% aqueous solution) 2.5-4.5

Ionic yang/non

Solubility soluble in water

### Performance and characteristics

1. Significantly improve the wettability of fabrics such as wash, sweat, sea water, saliva, and high temperature blisters.
2. Applicable color range, the dyeing of various color reactive dyes such as red, black, coffee, green orchid, brilliant blue and the color fastness of printed fabrics are obviously improved.
3. The solid color is small and the fixation is good.
4. Minimal impact on the feel and hydrophilicity of dyed fabrics.
5. Good water solubility, can be used directly or diluted as needed.

### Scope of application

Reactive dye dyeing and printing fabrics are suitable for improving color fastness, especially for fabric fixing treatments with high fastness requirements.

### Instructions

1. Dipping process: dosage 0.2-1.0% (o.w.f)

pH 5-7

Temperature 40 ° C -60 ° C

Time 20-30min

2. Rolling and solidification process: the general dosage is 2-10g/L.

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.



## 棉用低色变翠兰固色剂 TK-211B

主要成分	具有特殊反应基团的高分子聚合物	
技术指标	外 观	黄色透明液体
	含固量 (%)	25.5-27.5
	pH 值 (1%水溶液)	6.0-7.0
	离子性	阳/非

### 性能及特点

1. 低色变，能显著提高织物的皂洗，水洗，汗渍，海水等牢度。
2. 对活性染料，特别是翠蓝，艳蓝等活性染料染色织物的牢度提升明显。
3. 不影响染色织物的手感，不影响织物的亲水性。
4. 不含游离甲醛或结合甲醛。

### 适用范围

适用于活性染料染色后或印花固色处理，特别适用于对颜色鲜艳度要求比较高的织物。

### 使用方法

1. 浸固工艺：一般用量 1.0-4.0% (o.w.f)  
pH 值 5-7  
温 度 40-60℃  
时 间 20-30min。

2. 轧固工艺：一般用量 5-30g/L。

请根据颜色深浅和织物本身的牢度要求的不同来确定具体用量。

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 12 个月。

## fixing agent TK-211B

Main component High molecular polymer with special reactive groups

Technical indicators Appearance Yellow transparent liquid

Solid content (%) 25.5-27.5

pH (1% aqueous solution) 6.0-7.0

Ionic yang/non

### Performance and characteristics

1. Low color change, can significantly improve the soaping, washing, sweating, seawater and other fastness of the fabric.
2. The fastness of reactive dyes, especially those dyed with reactive dyes such as turquoise, brilliant blue, is significantly improved.
3. Does not affect the feel of the dyed fabric, does not affect the hydrophilicity of the fabric.
4. Free of formaldehyde or formaldehyde.

### Scope of application

It is suitable for dyeing after reactive dyes or printing and fixing. It is especially suitable for fabrics with high color vividness.

### Instructions

1. Dipping process: general dosage 1.0-4.0% (o.w.f)

pH 5-7

Temperature 40-60 ° C

Time 20-30min.

2. Rolling and solidification process: the general dosage is 5-30g/L.

Please determine the specific amount according to the color depth and the fastness requirements of the fabric itself.

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 多元共聚防沾皂洗剂 TK-411H

主要成分	表面活性剂及高分子聚合物复配	
技术指标	外观	淡黄色透明液体
	含固量 (%)	19.5-21.5
	pH 值 (1%水溶液)	8.0-10.0
	离子性	阴/非

### 性能及特点

1. 对染色、印花纺织品上未固着的活性、还原、直接染料、碱剂及电解质均有极好的净洗、分散、悬浮效果，从而提高纺织品的色牢度。
2. 有卓越的防沾色效果,主要对印花织物可以防止白地沾污；对于染色织物不仅能净洗也可以防止染色过程中对设备的沾污。
3. 低泡。

### 适用范围

适用于活性染料、还原染料、直接染料、纳夫妥染料印花和染色织物的皂洗。

### 使用方法

推荐用量：间歇式工艺 0.5-2g/L；连续式工艺 1-3g/L。

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 12 个月。

## soaping agent TK-411H

Main ingredients Surfactant and polymer compound

Technical indicators Appearance Light yellow transparent liquid

Solid content (%) 19.5-21.5

pH (1% aqueous solution) 8.0-10.0

Ionic yin/non

### **Performance and characteristics**

1. It has excellent cleaning, dispersing and suspending effects on the unfixed activity, reduction, direct dye, alkali agent and electrolyte on dyed and printed textiles, thus improving the color fastness of textiles.
2. It has excellent anti-staining effect, mainly for printing fabric to prevent white stain; for dyeing fabric, it can not only clean the stain but also prevent the stain on the equipment during the dyeing process.
3. Low foaming.

### **Scope of application**

Suitable for soaping of reactive dyes, vat dyes, direct dyes, narzine dye printing and dyed fabrics.

### **Instructions**

Recommended dosage: batch process 0.5-2g/L; continuous process 1-3g/L.

The specific process should be adjusted by the user as appropriate.

### **Packaging and storage**

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 高效修补剂 TK-516B

主要成分	特殊表面活性剂	
技术指标	外观	浅黄色透明液体
	pH 值（1%水溶液）	5.0-7.0
	水分（%）	≤13.0
	溶解性（1%水溶液）	易溶于水

### 性能及特点

1. 具有良好的移染性，可以有效解决及修复涤纶及其混纺织物特别是麂皮绒及春亚纺等涤纶织物染色后产生的各种染疵，能有效防止修补白斑的产生。回修后色光基本不变。
2. 也可以用做涤纶匀染剂，组份中的特殊活性剂成份在染色低温阶段能起到缓染和防止染料二次凝聚作用，在高温阶段能起到很强的促染作用，对涤纶及其混纺织物的染色，不但会提高匀染性，更能增加得色率。
3. 用于染色中得色较为鲜艳。
4. 用于涤纶筒子纱染色，可有效避免筒子纱内外层色差问题。

### 使用方法

1. 作染疵（如色点、色花等）回修剂	2. 作涤纶匀染剂使用
用量：1.0-2.0g/L	用量：0.2-0.5g/L
浴比：1：10-30	浴比：1：10-30
处理温度：130-140℃	染色温度：130-140℃
保温时间：10-60min	保温时间：30-60min

具体工艺请用户通过试样酌情调整。

### 注意事项

本产品属含易燃物质，贮存和使用场合杜绝明火。贮存在室温以下，有可能出现泛浑现象，搅匀使用不影响使用效果。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 12 个月。

## High efficiency repair agent TK-516B

Main ingredient special surfactant

Technical indicators Appearance Light yellow transparent liquid

pH (1% aqueous solution) 5.0-7.0

Moisture (%)  $\leq 13.0$

Solubility (1% aqueous solution) soluble in water

### Performance and characteristics

1. It has good transferability and can effectively solve and repair all kinds of dyeing of polyester and its blended fabrics, especially polyester fabrics such as suede and pongee, which can effectively prevent the repair of white spots. After the repair, the color light is basically unchanged.
2. It can also be used as a polyester leveling agent. The special active agent component in the component can play a role in retarding and preventing the secondary coagulation of the dye during the low temperature stage of dyeing, and can play a strong role in promoting the dyeing at high temperature. The dyeing of the blended fabric not only improves the leveling property, but also increases the color yield.
3. It is more vivid in dyeing.
4. It is used for dyeing polyester cheese, which can effectively avoid the problem of color difference between the inner and outer layers of the cheese.

### Instructions

1. Dyeing (such as color points, color flowers, etc.) repair agent
2. Used as a levelling agent for polyester

Dosage: 1.0-2.0g/L Dosage: 0.2-0.5g/L

Bath ratio: 1:10-30 Bath ratio: 1:10-30

Processing temperature: 130-140 ° C Dyeing temperature: 130-140 ° C

Holding time: 10-60min Holding time: 30-60min

The specific process should be adjusted by the user as appropriate.

### Precautions

This product is a flammable substance and should not be exposed to open flames during storage and use. Stored below room temperature, there may be ubiquinone, and the use of mixing does not affect the use of the effect.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 活性印花高浓增稠剂 TK-316D

主要成分	聚丙烯酸类化合物	
技术指标	外观	浅黄色粘稠液体
	离子性	阴离子

### 性能及特点

1. 开糊速度快，增稠迅速。
2. 印花色浆流变性好，易透网。
3. 抱水性好，印花轮廓清晰度高。
4. 水洗脱糊速度快，织物手感柔软。
5. 颜色鲜艳，得色量高。
6. 和海藻酸钠拼混使用或者做色浆的后增稠使用。

### 适用范围

适用于棉、麻、竹等天然纤维素织物、蛋白纤维织物及莫代尔的活性印花体系增稠。

### 使用方法

#### 1. 工艺配方：

水	X g
尿素	5-10g
防染盐	1g
六偏磷酸钠	0.5 – 1g
小苏打	1-3g
增稠剂 TK-316D：海藻酸钠=1:1	增稠剂 TK-316D 2g+海藻酸钠 2g
活性染料	Y g
总量	100g

2. 工艺流程：色浆配制→圆网或平网印花→烘干（100-110℃，1.5-2 分钟）→蒸化（102-105℃，8-10 分钟）→水洗

使用前建议搅拌，具体工艺请用户通过试样酌情调整。

### 包装与储存

120 千克塑料桶，密封避光贮存，常温下保质期 6 个月。

## Reactive printing thickener TK-316D

Main ingredients Polyacrylic compounds

Technical Specifications Appearance Light yellow viscous liquid

Ionic anion

### Performance and characteristics

1. The speed of opening is fast and the thickening is rapid.
2. Printing color paste has good rheology and easy to penetrate the net.
3. Good water retention and high definition of print outline.
4. The water-eluting paste is fast and the fabric feels soft.
5. The color is bright and the color is high.
6. Mix with sodium alginate or use thickening after colorant.

### Scope of application

It is suitable for thickening of active cellulose printing fabrics such as cotton, hemp and bamboo, protein fiber fabrics and modal.

### Instructions

1. Process recipe:

Water X g

Urea 5-10g

Anti-staining salt 1g

Sodium Hexametaphosphate 0.5 - 1g

Baking soda 1-3g

Thickener TK-316D: sodium alginate = 1:1 thickener TK-316D 2g + sodium alginate 2g

Reactive dye Y g

Total 100g

2. Process: color paste preparation → rotary screen or flat screen printing → drying (100-110 ° C, 1.5-2 minutes) → steaming (102-105 ° C, 8-10 minutes) → washing  
Stirring is recommended before use. The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 6 months at room temperature.



## 分散印花增稠剂 TK-317A

主要成分	聚丙烯酸类化合物	
技术指标	外观	浅黄色粘稠液体
	含固量 (%)	33.0-37.0
	离子性	阴

### 性能及特点

1. 耐电解质性能好、成糊率高。
2. 给色量较高，印花轮廓清晰。
3. 在剪切力下，触变性好。
4. 色浆放置稳定性好（不色变、不变稀）。
5. 洗水不粘搭辊，易于脱糊，织物手感柔软。
6. 环保产品（不含 APEO，不含甲醛，无煤油味）。

### 适用范围

适合各类聚酯纤维的分散印花增稠（可单独使用，也可和海藻糊、罗望子、瓜尔胶拼混等天然糊料拼混使用）。

### 使用方法

1. 单独使用工艺配方：

分散印花增稠剂 TK-317A	3-7%
分散染料	x%
水或其他	y%
合成	100%

2. 工艺流程：色浆配制→圆网或平网印花→焙烘固色（180-190℃，3-6min）→水洗。
3. 在雪纺、仿真丝涤纶面料上，与天然糊料 1:1 混拼使用。

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光储存，常温下保质期 6 个月。

## Dispersing thickener TK-317A

Main ingredients Polyacrylic compounds

Technical Specifications Appearance Light yellow viscous liquid

Solid content (%) 33.0-37.0

Ionic Yin

### Performance and characteristics

1. Good electrolyte resistance and high paste rate.
2. The color amount is higher and the print outline is clear.
3. Under shear force, the thixotropy is good.
4. The color paste has good stability (no color change, no change).
5. Washing water does not stick to the roller, easy to remove the paste, the fabric feels soft.
6. Environmentally friendly products (excluding APEO, no formaldehyde, no kerosene).

### Scope of application

It is suitable for the dispersion printing thickening of various polyester fibers (can be used alone or in combination with natural paste such as seaweed paste, tamarind and guar gum).

### Instructions

1. Use the process recipe separately:

Disperse printing thickener TK-317A 3-7%

Disperse dye x%

Water or other y%

Synthesis 100%

2. Process: color paste preparation → rotary screen or flat screen printing → baking solid color (180-190 ° C, 3-6 min) → water washing.

3. On chiffon, artificial silk polyester fabric, mix with natural paste 1:1.

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and protected from light, shelf life of 6 months at room temperature.

## 分散印花增稠剂 TK-317C

主要成分	聚丙烯酸类化合物	
技术指标	外观	白色粘稠液体
	含固量 (%)	28.0-33.5
	离子性	阴

### 性能及特点

1. 成糊率高，增稠迅速。
2. 得色深、配伍性好。
3. 具有良好的耐电解质性。
4. 印花色浆稳定，流动性好。
5. 水洗时极易于脱糊，织物手感蓬松柔软。

### 适用范围

适用于分散染料、涂料印花增稠；特别是毛毯、各种绒类、厚重针、梭织物及渗透性要求高的聚酯纤维印花，不仅能单独使用，也可和海藻酸钠糊、罗望子、瓜尔胶拼混使用。

### 使用方法

#### 1. 工艺配方：

TK-317C	4-8%
分散染料	X%
水	Y%
总量	100%

工艺流程：色浆配制→圆网或平网印花→适合低温蒸化、和高温焙烘发色（180-185℃，3-6min）→水洗。

具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 6 个月。

## Dispersing thickener TK-317C

Main ingredients Polyacrylic compounds

Technical Specifications Appearance White viscous liquid

Solid content (%) 28.0-33.5

Ionic Yin

### Performance and characteristics

1. The rate of paste formation is high and the thickening is rapid.
2. It has a deep color and good compatibility.
3. Has good electrolyte resistance.
4. The printing paste is stable and has good fluidity.
5. It is easy to remove the paste when washing, and the fabric feels fluffy and soft.

### Scope of application

Suitable for disperse dyes, paint printing thickening; especially for felts, various velvets, heavy needles, woven fabrics and polyester fiber printing with high permeability requirements, not only can be used alone, but also with sodium alginate paste, tamarind Guar gum is used in combination.

### Instructions

1. Process recipe:

TK-317C 4-8%

Disperse dye X%

Water Y%

Total 100%

Process: color paste preparation → rotary screen or flat screen printing → suitable for low temperature steaming, and high temperature baking color (180-185 ° C, 3-6 min) → water washing.

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 6 months at room temperature.

## 涂料印花增稠剂 TK-318B

主要成分	丙烯酸盐聚合物	
技术指标	外观	乳白色粘稠液体
	离子性	阴

### 性能及特点

1. 开糊速度快，流变性能佳。
2. 极好的耐电解质性能，成糊率高，与粘合剂复配性佳。
3. 抱水性好，印花轮廓清晰。
4. 色浆稳定，易透网，不霉变。
5. 环保，不含甲醛、APEO、煤油。

### 适用范围

适用于涂料印花、无纺布印花、涂层增稠和其它水性体系的增稠。

### 使用方法

#### 1. 工艺配方：

增稠剂 TK-318B	1.2-1.4%
涂料	x%
粘合剂	5-25%
水或其他	y%
合成	100%

2. 工艺流程：色浆配制→圆网或平网印花→烘干→焙烘（150℃-160℃，1.5-3min）。  
具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封避光贮存，常温下保质期 6 个月。

## Paint printing thickener TK-318B

Main ingredient acrylate polymer

Technical indicators Appearance Milky white viscous liquid

Ionic Yin

### Performance and characteristics

1. Fast paste speed and good rheological properties.
2. Excellent electrolyte resistance, high paste rate and good compatibility with adhesives.
3. Good water retention and clear print outline.
4. The color paste is stable, easy to penetrate the net, not mildew.
5. Environmentally friendly, free of formaldehyde, APEO, kerosene.

### Scope of application

Suitable for coating printing, non-woven printing, coating thickening and thickening of other aqueous systems.

### Instructions

1. Process recipe:

Thickener TK-318B 1.2-1.4%

Paint x%

Adhesive 5-25%

Water or other y%

Synthesis 100%

2. Process: color paste preparation → rotary screen or flat screen printing → drying → baking (150 ° C -160 ° C, 1.5-3 min).

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored in the dark, with a shelf life of 6 months at room temperature.

## 涂料印花粘合剂 TK-319A

主要成分	特殊高分子聚合物	
技术指标	外观	白色带蓝光液体
	含固量(%)	35.0-37.0
	pH 值 (原液)	7.5-9.0
	离子性	阴

### 性能及特点

1. 印花颜色鲜艳，得色量高，和增稠剂配伍性佳。
2. 具有柔软的手感，良好的摩擦牢度和刷洗牢度。
3. 热稳定性和机械稳定性优异，乳液分散效果优良，印制过程不塞网。
4. 自交联性反应性能佳，成膜亮。
5. 环保，适合婴儿服装。

### 适用范围

适用于棉、涤棉混纺面料上的平网、圆网、台版、裁片涂料印花以及无纺布印花；同时适合软胶涂层和植绒胶水做植绒加工。

### 使用方法

1. 工艺配方：

增稠剂	x%
涂料	y%
粘合剂 TK-319A	5-25%
水或其他	z%
合计	100%

2. 工艺流程：色浆配制→圆网或平网印花→焙烘（150-160℃，1.5-2min）。  
具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封 0-40℃贮存，常温下保质期 6 个月。

## Paint printing adhesive TK-319A

Main component special polymer

Technical indicators Appearance White with blue liquid

Solid content (%) 35.0-37.0

pH (stock solution) 7.5-9.0

Ionic Yin

### Performance and characteristics

1. The printing color is bright, the color is high, and the compatibility with the thickener is good.
2. Has a soft hand, good rubbing fastness and brushing fastness.
3. Excellent thermal stability and mechanical stability, excellent emulsion dispersion effect, and no netting during printing.
4. The self-crosslinking reaction has good performance and the film formation is bright.
5. Environmentally friendly, suitable for baby clothing.

### Scope of application

It is suitable for flat net, round net, plate, cut sheet coating and non-woven printing on cotton, polyester-cotton blended fabric; it is also suitable for flocking processing with soft rubber coating and flocking glue.

### Instructions

1. Process recipe:

Thickener x%

Paint y%

Adhesive TK-319A 5-25%

Water or other z%

Total 100%

2. Process: color paste preparation → rotary screen or flat screen printing → baking (150-160 ° C, 1.5-2 min).

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed at 0-40 ° C for storage, shelf life at room temperature for 6 months.



## 涂料印花高手感粘合剂 TK-319B

主要成分	特殊高分子聚合物	
技术指标	外观	乳白色粘稠液体
	含固量(%)	47.0-49.0
	pH 值（原液）	8.5-9.5
	离子性	阴

### 性能及特点

1. 自交联性能、反应性能佳，成膜亮。
2. 与增稠剂配伍性好。
3. 热稳定性和机械稳定性优异，乳液分散效果优良，印制过程不塞网。
4. 具有十分柔软的手感，优异的摩擦牢度和刷洗牢度。
5. 印花颜色鲜艳，得色量高。
6. 环保，适合婴儿服装。

### 适用范围

适用于棉、涤棉混纺面料上的平网、圆网、台版、裁片涂料印花以及无纺布加工，同时也能做植绒浆复配和软胶涂层加工。

### 使用方法

1. 工艺配方：

增稠剂	x%
涂料	y%
粘合剂 TK-319B	5-25%
水或其他	z%
合计	100%

2. 工艺流程：色浆配制→圆网或平网印花→焙烘（150-160℃，2-4min）  
具体工艺请用户通过试样酌情调整。

### 包装与贮存

120 千克塑料桶，密封贮存，常温下保质期 6 个月。

## Paint printing adhesive TK-319B

Main component special polymer

Technical indicators Appearance Milky white viscous liquid

Solid content (%) 47.0-49.0

pH (stock solution) 8.5-9.5

Ionic Yin

### Performance and characteristics

1. Self-crosslinking performance, good reaction performance, and bright film formation.
2. Good compatibility with thickeners.
3. Excellent thermal stability and mechanical stability, excellent emulsion dispersion effect, and no netting during printing.
4. It has a very soft hand, excellent rubbing fastness and brushing fastness.
5. The color of the print is bright and the color is high.
6. Environmentally friendly, suitable for baby clothing.

### Scope of application

It is suitable for flat net, round net, plate, cut sheet coating and non-woven fabric processing on cotton, polyester-cotton blended fabrics. It can also be used for flocking pulp compounding and soft rubber coating processing.

### Instructions

1. Process recipe:

Thickener x%

Paint y%

Adhesive TK-319B 5-25%

Water or other z%

Total 100%

2. Process: color paste preparation → rotary screen or flat screen printing → baking (150-160 ° C, 2-4 min)

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

120 kg plastic drum, sealed and stored, the shelf life is 6 months at room temperature.

## 活性印花糊料 TK-316SB

主要成分	海藻酸钠	
技术指标	外观	褐色粉末
	水溶液粘度（1%）	100mPa·s
	目数	40

### 性能及特点

1. 水洗易于脱糊，手感薄软。
2. 成糊率高，用量少。
3. 印花轮廓清晰，适合网点、精细线条花型印花。
4. 具备良好的耐电解质性能。
5. 印花色浆放置稳定性好，打好底浆储存稳定性好。
6. 不含 APEO、无甲醛。

### 适用范围

适用于棉、人棉、竹纤维、苧麻、亚麻、大豆纤维等活性印花体系增稠。

### 使用方法

#### 1. 原糊的配备：

活性印花糊料 TK-316SB	6%
水或其他	94%
合成	100%

注：据要求的量把 TK-316SB 慢慢溶解在冷水中，边溶解边搅拌，这样可以避免结块的产生。持续搅拌至少 30min。把糊状物有条件可以放置一晚便于最大限度的膨胀。如果用热水（大约 70℃）可加快溶解膨化。

#### 色浆配置：

水	X g
尿素	5-15g
防染盐	1g
六偏磷酸钠	0.5-1g
小苏打	1-3g
活性印花糊料 TK-316SB	取原糊 30%-60%
活性染料	Y g
总量	100g

2. 工艺流程：色浆配制→圆网或平网印花→烘干（100-110℃，1.5-2min）→蒸化（100-105℃，8-10min）→水洗。

具体工艺请用户通过试样酌情调整。

### 包装与储存

25KG 编织袋，密封避光贮存，常温下保质期 12 个月。

## Reactive printing paste TK-316SB

Main ingredient sodium alginate

Technical indicators Appearance Brown powder

Aqueous solution viscosity (1%) 100mPa · s

Number of orders 40

### Performance and characteristics

1. Washing is easy to remove, and the hand feels soft.
2. The paste formation rate is high and the dosage is small.
3. The print has a clear outline and is suitable for dot and fine line pattern printing.
4. Has good electrolyte resistance.
5. The printing paste has good stability and good storage stability.
6. Does not contain APEO, no formaldehyde.

### Scope of application

It is suitable for thickening of active printing systems such as cotton, human cotton, bamboo fiber, ramie, linen and soybean fiber.

### Instructions

1. The original paste is equipped:

Reactive printing paste TK-316SB 6%

Water or other 94%

Synthesis 100%

Note: TK-316SB is slowly dissolved in cold water according to the required amount, and dissolved and stirred to avoid agglomeration. Stirring is continued for at least 30 min. The paste can be placed for one night to facilitate maximum expansion. If hot water (about 70 ° C) is used, the dissolution and expansion can be accelerated.

Color paste configuration:

Water X g

Urea 5-15g

Anti-staining salt 1g

Sodium hexametaphosphate 0.5-1g

Baking soda 1-3g

Reactive printing paste TK-316SB takes 30%-60% of the original paste

Reactive dye Y g

Total 100g

2. Process: color paste preparation → rotary screen or flat screen printing → drying (100-110 ° C, 1.5-2 min) → steaming (100-105 ° C, 8-10 min) → water washing. The specific process should be adjusted by the user as appropriate.

### Packaging and storage

25KG woven bag, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 活性印花糊料 TK-316SD

主要成分	海藻酸钠	
技术指标	外观	褐色粉末
	水溶液粘度（1%）	100mPa·s
	目数	40

### 性能及特点

1. 得色鲜艳，得色量高。
2. 成糊率较高，用量省。
3. 印花轮廓清晰，适合各种花型。
4. 具备良好的耐电解质性能。
5. 印花色浆稳定性好。
6. 不含 APEO、无甲醛。

### 适用范围

适用于棉、人棉、竹纤维、苧麻、亚麻、大豆纤维等活性印花体系增稠。

### 使用方法

#### 1. 原糊的配备：

活性印花糊料 TK-316SD	6%
水或其他	94%
合成	100%

注：据要求的量把 TK-316SD 慢慢溶解在冷水中，边溶解边搅拌，这样可以避免结块的产生。持续搅拌至少 30min。把糊状物有条件可以放置一晚便于最大限度的膨胀。如果用热水（大约 70℃）可加快溶解膨化。

#### 色浆配置：

水	X g
尿素	5-15g
防染盐	1g
六偏磷酸钠	0.5-1g
小苏打	1-3g
活性印花糊料 TK-316SD	取原糊 30%-60%
活性染料	Y g
总量	100g

2. 工艺流程：色浆配制→圆网或平网印花→烘干（100-110℃，1.5-2min）→蒸化（100-105℃，8-10min）→水洗。

具体工艺请用户通过试样酌情调整。

### 包装与储存

25KG 编织袋，密封避光贮存，常温下保质期 12 个月。

## Reactive Printing Paste TK-316SD

Main ingredient sodium alginate

Technical indicators Appearance Brown powder

Aqueous solution viscosity (1%) 100mPa • s

Number of orders 40

### Performance and characteristics

1. The color is bright and the color is high.
2. The paste rate is higher and the dosage is saved.
3. The print has a clear outline and is suitable for all flower patterns.
4. Has good electrolyte resistance.
5. The printing paste has good stability.
6. Does not contain APEO, no formaldehyde.

### Scope of application

It is suitable for thickening of active printing systems such as cotton, human cotton, bamboo fiber, ramie, linen and soybean fiber.

### Instructions

1. The original paste is equipped:

Reactive printing paste TK-316SD 6%

Water or other 94%

Synthesis 100%

Note: TK-316SD is slowly dissolved in cold water according to the required amount, and dissolved and stirred to avoid agglomeration. Stirring is continued for at least 30 min. The paste can be placed for one night to facilitate maximum expansion. If hot water (about 70 ° C) is used, the dissolution and expansion can be accelerated.

Color paste configuration:

Water X g

Urea 5-15g

Anti-staining salt 1g

Sodium hexametaphosphate 0.5-1g

Baking soda 1-3g

Reactive printing paste TK-316SD take 30%-60% of the original paste

Reactive dye Y g

Total 100g

2. Process: color paste preparation → rotary screen or flat screen printing → drying (100-110 ° C, 1.5-2 min) → steaming (100-105 ° C, 8-10 min) → water washing. The specific process should be adjusted by the user as appropriate.

### Packaging and storage

25KG woven bag, sealed and stored in the dark, with a shelf life of 12 months at room temperature.

## 分散印花糊料 TK-317SA

主要成分	醚化多糖粉状化合物	
技术指标	外观	米黄色均匀粉末
	pH (1%水溶液)	6.5-7.0
	离子性	阴

### 性能及特点

1. TK-317SA 是一种源自天然易生物所能分解的多糖植物，对环境无害。配制好的糊料具有良好的稳定性，正常条件下可保持数天。
2. 具有良好的流变性、良好的亮度和渗透性。
3. 印花轮廓清晰、得色量高，易脱糊、手感优异。
4. 具有良好的耐化学试剂稳定性，如酸（柠檬酸、酒石酸），还原剂（氯化亚锡）等。

### 适用范围

适用于涤纶，聚酰胺纤维，聚丙烯晴纤维的分散染料直接印花增稠和烂花增稠，也可和纺织印染增稠剂相容（混合使用）。能满足平网、圆网、滚筒印染机的要求。

### 使用方法

1. 工艺处方：原糊的配备：

分散印花糊料	
TK-317SA	9%
水或其他	91%
合成	100%

注：据要求的量把 TK-317SA 慢慢溶解在冷水中，边溶解边搅拌，这样可以避免结块的产生。持续搅拌至少 30min。把糊状物有条件可以放置一晚便于最大限度的膨胀。如果用热水（大约 70℃）可加快溶解膨化。加入有机酸，把储备糊 pH 值

调到 5,根据印花色浆粘度的需求，取 30%-65%的适量储备糊配制色浆。

2. 工艺流程：分散印花色浆配制→圆网或平网印花→烘干→蒸化固色（180-185℃，6-8min）→水洗。

具体工艺请用户通过试样酌情调整。

### 包装与贮存

25 千克纸袋，密封避光贮存，注意防潮，常温下保质期为 12 个月。

## Disperse printing paste TK-317SA

Main component etherified polysaccharide powder compound

Technical Specifications Appearance Beige Uniform Powder

pH (1% aqueous solution) 6.5-7.0

Ionic yin

### Performance and characteristics

1. TK-317SA is a polysaccharide plant that can be decomposed by natural susceptible organisms and is harmless to the environment. The prepared paste has good stability and can be kept for several days under normal conditions.
2. Has good rheology, good brightness and permeability.
3. The printing outline is clear, the color is high, and it is easy to be detached and has excellent hand feeling.
4. Has good chemical resistance stability, such as acid (citric acid, tartaric acid), reducing agent (stannous chloride).

### Scope of application

Suitable for polyester, polyamide fiber, polypropylene fiber, disperse dyes for direct printing thickening and burnt thickening, also compatible with textile printing and dyeing thickener (mixed use). Can meet the requirements of flat screen, rotary screen, roller dyeing machine.

### Instructions

1. Process prescription: the original paste is equipped:

Disperse printing paste TK-317SA 9%

Water or other 91%

Synthesis 100%

Note: TK-317SA is slowly dissolved in cold water according to the required amount, and dissolved and stirred to avoid agglomeration. Stirring is continued for at least 30 min. The paste can be placed for one night to facilitate maximum expansion. If hot water (about 70 ° C) is used, the dissolution and expansion can be accelerated. Add organic acid, adjust the pH of the stock paste to 5, according to the viscosity of the printing paste, take 30%-65% of the appropriate amount of the reserve paste to prepare the color paste.

2. Process: Disperse printing paste preparation → rotary screen or flat screen printing → drying → steaming fixation (180-185 ° C, 6-8 min) → water washing.

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

25kg paper bag, sealed and protected from light, pay attention to moisture, and the shelf life is 12 months at room temperature.



## 新型超柔软滑爽硅油 TK-4620（原油）

### 产品概述

该产品是一种线性多元共聚嵌段改性的有机硅柔软剂

### 特性及优点

手感特点柔软滑爽

本产品具有自乳化性能，不用乳化剂、采用高速分散机开稀使用。

### 基本性状

外观：透明淡黄色液体

离子性：弱阳离子

含量：54%—56%（105℃,3 小时）

### 应用范围

涤纶毛绒织物、涤针织物

### 参考用量

乳化成 20%左右含量的硅油乳液，外观透明

浸渍法：TK-4620 乳化液 1~5% (o.w.f)

浸轧法：TK-4620 乳化液 10~50 g/L

### 包装

50 或 120kg 塑料桶装。

### 贮存

置于阴凉通风仓库，贮存期为六个月。

## TK-4620 原油的乳化开稀工艺

投料:

TK-4620 原油: 100 公斤

酸水 10 公斤: 2 公斤的冰醋酸加上 8 公斤的水

水: 200 公斤

操作过程:

6. 在搅拌釜中加入 4620 原油, 开动搅拌;
- 2、加入 10 公斤的水充分搅拌 5 分钟后, 搅拌均匀;
- 3、加入 10 公斤的水充分搅拌 5 分钟后, 搅拌均匀;
- 4、加入 10 公斤的水充分搅拌 5-10 分钟后, 加入 5 公斤酸水, 搅拌 5 分钟;
- 5、加入 10 公斤的水充分搅拌 5-10 分钟后;
- 6、加入 10 公斤的水充分搅拌 5-10 分钟后, 加入 5 公斤酸水, 搅拌 5 分钟;
- 7、加入 10 公斤的水充分搅拌 5-10 分钟后;
- 8、加入 10 公斤的水充分搅拌 5-10 分钟后;
- 9、加入 10 公斤的水充分搅拌 5-10 分钟后;
- 10、加入 20 公斤的水充分搅拌 5 分钟后;
- 11、加入 20 公斤的水充分搅拌 5 分钟后;
- 12、再缓慢加入 50 公斤水充分搅拌 2-3 分钟后;
- 13、最后加入剩余的全部水, 充分搅拌均匀, 再加点冰醋酸将 PH 值调节 5—6

注意: 必须采用高速分散机进行乳化, 最后一次全部加水可以调慢速度。

## Soft and smooth silicone oil TK-4620(crude oil)

**【 Introduction 】** Soft and smooth silicone oil TK-4620 is a the linear multivariate copolymerization block modified silicone softener.

**【 Advantage 】**

- (1) Endow fabric super soft and clear smooth feeling.
- (2) Self-emulsify,

**Basic Character**

Appearance: transparent to light yellow

liquid Ionic: Weak Cationic

Solid content: 54-56%

**Application**

Polyester plush, polyester knitted fabric

**Usage amount for reference**

Dipping Process:	TK-4620 diluted emulsion	1-5%(o.w.f)
Padding Process:	TK-4620 diluted emulsion	10-50g/L

**Package** 50kg or 120kg plastic barrel.

**Storage** Store in cool and ventilated warehouse. 6 moths of storage period.

## Dilute method

TK-4620: 100KG

Acid solution: 10kg (2Kg Glacial acetic acid and 8kg water) Water: 200Kg

Dilute process:

1. Add TK-4620 and emulsifier to reactor, start stirring for 5-10 minutes;
  2. Add 10Kg water to stir for 5 minutes, stir for 5-10 minutes;
  3. Add 10Kg water to stir for 5 minutes, stir for 5-10 minutes;
  4. Add 10Kg water to stir for 5 minutes, add 5kg acid water to stir for 5-10 minutes;
  5. Add 10Kg water to stir for 5 minutes, stir for 5-10 minutes;
  6. Add 10Kg water to stir for 5 minutes, add 5 kg acid water to stir for 5-10 minutes;
  7. Add 10Kg water to stir for 5 minutes, stir for 5-10 minutes;
  8. Add 10Kg water to stir for 5 minutes, stir for 5-10 minutes;
  9. Add 10Kg water to stir for 5 minutes, stir for 5-10 minutes;
  10. Add 20Kg water to stir for 5 minutes, stir for 5-10 minutes;
  11. Add 20Kg water to stir for 5 minutes, stir for 5-10 minutes;
  12. Add 50Kg water slowly to stir for 2-3 minutes,
- Slowly add rest water while stirring, add rest acid water, stir evenly for 5-10 minutes, add glacial acetic acid to adjust PH value to 6

Notice: Must use high speed machine, last time can add water slowly.

When in cold weather, emulsifier is easily to freeze, heating thawing stirring before use.

## 新型高手感亲水硅油 TK-4098（原油）

### 产品概述

该产品为季铵化改性的多元共聚的有机硅柔软剂

### 特性及优点

相比其他类型亲水硅油，该亲水硅油手感很好，亲水性一般；  
织物整理后具有滑糯感、棉质感强，有弹性；  
稳定性好，易回修。

### 基本性状

外 观：透明浅黄色液体  
离子性：弱阳离子  
含 量：85%—87%（105°C, 3 小时）

### 应用范围

适用于棉针织/梭织

### 参考用量

乳化成 40% 左右含量的亲水硅油乳液，外观透明  
浸渍法：TK-4098 开稀液 2~6 % (o. w. f)  
浸轧法：TK-4098 开稀液 10~40 g/L

### 包 装

50 或 120kg 塑料桶装。

### 贮 存

置于阴凉通风仓库，贮存期为六个月。

### TK-4098 的乳化开稀工艺

投料:

TK-4098 原油:	200 公斤
配套乳化剂:	40 公斤
冰醋酸:	4 公斤
水:	360 公斤

操作过程:

- 1、在搅拌釜中加入乳化剂和原油，开动搅拌，充分搅拌 5—10 分钟
- 2、加入 30 公斤的水充分搅拌 5 分钟后，加入 1 公斤酸水，搅拌 5—10 分钟
- 3、加入 30 公斤的水充分搅拌 5 分钟后，加入 1 公斤酸水，搅拌 5—10 分钟
- 4、加入 30 公斤的水充分搅拌 5 分钟后，加入 1 公斤酸水，搅拌 5—10 分钟
- 5、加入 30 公斤的水充分搅拌 5 分钟后，加入 1 公斤酸水，搅拌 5—10 分钟
- 6、加入 30 公斤的水充分搅拌 5 分钟后，加入 1 公斤酸水，搅拌 5—10 分钟
- 7、加入 30 公斤的水充分搅拌 5 分钟后，加入 1 公斤酸水，搅拌 5—10 分钟
- 8、加入 30 公斤的水充分搅拌 5 分钟后，加入 1 公斤酸水，搅拌 5—10 分钟
- 9、加入 30 公斤的水充分搅拌 5 分钟后，加入 1 公斤酸水，搅拌 5—10 分钟
- 10、在搅拌的条件下慢慢加入剩余的水，然后加入剩余的酸水，加完后充分搅拌 5—10 分钟后，用 PH 试纸测试，用冰醋酸将 PH 值控制在 6 左右

注意:必须采用高速分散机进行乳化，最后一次全部加水可以调慢搅拌速度。

另:冬天天气较冷，乳化剂容易冻住，使用前请加热解冻搅拌后使用

## **New high-featured hydrophilic silicone oil TK-4098 (crude oil)**

### **product description**

The product is a quaternized modified multi-copolymerized silicone softener

### **Features and benefits**

Compared with other types of hydrophilic silicone oil, the hydrophilic silicone oil has a good hand feeling and is generally hydrophilic;

The fabric has a smooth feel after being finished, and has a strong cotton texture and elasticity;

Good stability and easy to repair.

### **Basic trait**

Appearance: transparent light yellow liquid

Ionicity: weak cation

Content: 85% - 87% (105 ° C, 3 hours)

### **Application range**

Suitable for cotton knitting / woven

### **Reference amount**

Emulsified into a hydrophilic silicone oil emulsion of about 40%, transparent appearance

Dipping method: TK-4098 diluted liquid 2~6 % (o.w.f)

Padding method: TK-4098 thin liquid 10~40 g/L

### **Packing**

50 or 120kg plastic drums.

### **Storage**

Stored in a cool, ventilated warehouse with a storage period of six months.

## Emulsification and thinning process of TK-4098

Feeding:

TK-4098 crude oil: 200 kg

Matching emulsifier: 40 kg

Glacial acetic acid: 4 kg

Water: 360 kg

Operation process:

1. Add emulsifier and crude oil to the stirred tank, start stirring, and stir for 5-10 minutes.
2. Add 30 kg of water and stir for 5 minutes. Add 1 kg of sour water and stir for 5-10 minutes.
3. Add 30 kg of water and stir for 5 minutes. Add 1 kg of sour water and stir for 5-10 minutes.
4. Add 30 kg of water and stir for 5 minutes. Add 1 kg of sour water and stir for 5-10 minutes.
5. Add 30 kg of water and stir for 5 minutes. Add 1 kg of sour water and stir for 5-10 minutes.
6. Add 30 kg of water and stir for 5 minutes. Add 1 kg of sour water and stir for 5-10 minutes.
7. Add 30 kg of water and stir for 5 minutes. Add 1 kg of sour water and stir for 5-10 minutes.
8. Add 30 kg of water and stir for 5 minutes. Add 1 kg of sour water and stir for 5-10 minutes.
9. Add 30 kg of water and stir for 5 minutes. Add 1 kg of sour water and stir for 5-10 minutes.
10. Slowly add the remaining water under stirring conditions, then add the remaining acid water. After the addition, stir well for 5-10 minutes, test with PH test paper, and control the pH value to about 6 with glacial acetic acid.

Note: Emulsification must be carried out using a high-speed disperser. The last addition of water can slow down the mixing speed.

Another: the weather is cold in winter, the emulsifier is easy to freeze, please use it after heating and thawing.



## 新型超柔软滑爽硅油 TK-4608（原油）

### 产品概述

该产品是特殊结构改性三元共聚嵌段环保硅油

### 特性及优点

手感风格超柔软爽滑；  
不用乳化剂采用高速分散机开稀使用。

### 基本性状

外 观：透明淡黄色液体  
离子性：弱阳离子  
含 量：56%—58%（105℃, 3 小时）

### 应用范围

通用性较强，适用于各种涤纶以及棉织物的软滑整理

### 参考用量

浸渍法：TK-4608 乳化液      1~5% (o. w. f)  
浸轧法：TK-4608 乳化液      10~50 g/L

### 包 装

50 或 120kg 塑料桶装。

### 贮 存

置于阴凉通风仓库，贮存期为六个月。

## TK-4608 的乳化开稀工艺

### 投料:

TK-4608 原油: 100 公斤

水: 300 公斤

冰醋酸: 2 公斤

乳化后的乳液半乳白

### 操作过程:

- 1、在搅拌釜中加入 TK-4608 原油, 开动搅拌;
- 2、加入 10 公斤的水充分搅拌 5 分钟后, 搅拌均匀;
- 3、加入 10 公斤的水充分搅拌 5 分钟后, 搅拌均匀;
- 4、加入 10 公斤的水充分搅拌 5-10 分钟后, 加入 2 公斤冰醋酸, 搅拌 5 分钟;
- 5、加入 10 公斤的水充分搅拌 5-10 分钟后;
- 6、加入 10 公斤的水充分搅拌 5-10 分钟后;
- 7、加入 10 公斤的水充分搅拌 5-10 分钟后;
- 8、加入 10 公斤的水充分搅拌 5-10 分钟后;
- 9、加入 10 公斤的水充分搅拌 5-10 分钟后;
- 10、加入 20 公斤的水充分搅拌 5 分钟后;
- 11、加入 20 公斤的水充分搅拌 5 分钟后;
- 12、再缓慢加入 50 公斤水充分搅拌 2-3 分钟后;
- 13、最后加入剩余的全部水, 充分搅拌均匀, 再加点冰醋酸将 PH 值调节 5—6

注意: 必须采用高速分散机进行乳化, 最后一次全部加水可以调慢速度。

在乳化过程中, 要不断刮边, 防止沾在锅壁上的硅油没有充分乳化

## **New super soft and smooth silicone oil TK-4608(crude oil)**

### **product description**

This product is a special structure modified ternary copolymer block environmentally friendly silicone oil

### **Features and benefits**

Feel style is super soft and smooth;

The emulsifier is not used in a high-speed disperser.

### **Basic trait**

Appearance: transparent light yellow liquid

Ionicity: weak cation

Content: 56% - 58% (105 ° C, 3 hours)

### **Application range**

Strong versatility, suitable for soft and smooth finishing of various polyester and cotton fabrics

### **Reference amount**

Dipping method: TK-4608 emulsion 1~5% (o.w.f)

Padding method: TK-4608 emulsion 10~50 g/L

### **Packing**

50 or 120kg plastic drums.

### **Storage**

Stored in a cool, ventilated warehouse with a storage period of six months.

## Emulsification and thinning process of TK-4608

Feeding:

TK-4608 crude oil: 100 kg

Water: 300 kg

Glacial acetic acid: 2 kg

Emulsified emulsion half milk white

Operation process:

1. Add TK-4608 crude oil to the stirred tank and start stirring;
2. Add 10 kg of water and stir for 5 minutes, then stir evenly;
3. Add 10 kg of water and stir for 5 minutes, then stir evenly;
- 4, add 10 kg of water and stir for 5-10 minutes, add 2 kg of glacial acetic acid, stir for 5 minutes;
5. Add 10 kg of water and stir for 5-10 minutes;
6. Add 10 kg of water and stir for 5-10 minutes;
7. Add 10 kg of water and stir for 5-10 minutes;
8. Add 10 kg of water and stir for 5-10 minutes;
9. Add 10 kg of water and stir for 5-10 minutes;
10. Add 20 kg of water and stir for 5 minutes;
11. Add 20 kg of water and stir for 5 minutes;
- 12, slowly add 50 kg of water and stir for 2-3 minutes;
- 13, finally add all the remaining water, stir well, add a little glacial acetic acid to adjust the PH value 5-6

Note: Emulsification must be carried out using a high-speed disperser. The last time all water is added, the speed can be slowed down.

During the emulsification process, it is necessary to continuously scrape the edges to prevent the silicone oil adhering to the wall of the pot from being fully emulsified.

## 柔软滑爽硅油 TK-420B-3

### 产品概述

该产品是一种线性多元共聚嵌段改性的有机硅柔软剂

### 特性及优点

手感风格柔软蓬松  
烫光后织物有优异的平滑光亮效果；  
在涤纶织物上使用，具有一定的光亮度

### 基本性状

外 观：半乳白乳液  
离子性：弱阳/非离子  
含固量：16-17% (105℃×3 小时)

### 应用范围

涤纶各种毛绒织物

### 参考用量

浸渍法：TK-420B-3	2~5% (o. w. f)
浸轧法：TK-420B-3	10~50 g/L

### 包 装

50 或 120kg 塑料桶装。

### 贮 存

置于阴凉通风仓库，贮存期为六个月。

## Soft and smooth silicone oil TK-420B-3

### product description

This product is a linear multi-copolymer block modified silicone softener

### Features and benefits

Soft and fluffy

The fabric has an excellent smoothing effect after ironing;

Used on polyester fabrics with a certain brightness

### Basic trait

Appearance: galac white lotion

Ionicity: weak yang / non-ion

Solid content: 16-17% (105 ° C × 3 hours)

### Application range

Polyester all kinds of plush fabric

### Reference amount

Dipping method: TK-420B-3 2~5% (o.w.f)

Padding method: TK-420B-3 10~50 g/L

### Packing

50 or 120kg plastic drums.

### Storage

Stored in a cool, ventilated warehouse with a storage period of six months.

## 新型超滑爽硅油 TK-413G

### 产品概述

该产品为特种有机硅三元共聚高浓乳液

### 特性及优点

滑爽手感特点  
与蓬松型硅油复配可以达到理想的效果  
工作液稳定性好

### 基本性状

外 观：透明液体  
离子性：弱阳离子  
含 量：12%±0.5% (105°C, 3 小时)

### 应用范围

适用于各类涤、棉及其混纺织物

### 参考用量

浸渍工艺： TK-413G      0.5~2% (o. w. f)

浸轧工艺： TK-413G      5~20g/L

### 包 装

50 或 120kg 塑料桶装。

### 贮 存

置于阴凉通风仓库，贮存期为六个月。

## New ultra-smooth silicone oil TK-413G

### product description

This product is a special silicone ternary copolymer high concentration emulsion

### Features and benefits

Sleek feel

It can be combined with fluffy silicone oil to achieve the desired effect.

Good working fluid stability

### Basic trait

Appearance: transparent liquid

Ionicity: weak cation

Content: 12%  $\pm$  0.5% (105 ° C, 3 hours)

### Application range

Suitable for all kinds of polyester, cotton and their blended fabrics

### Reference amount

Impregnation process: TK-413G 0.5~2% (o.w.f)

Padding process: TK-413G 5~20g/L

### Packing

50 or 120kg plastic drums.

### Storage

Stored in a cool, ventilated warehouse with a storage period of six months.



## 新型超蓬松柔软硅油 TK-415G

### 产品概述

该产品是一种线性多元共聚嵌段改性的有机硅柔软剂

### 特性及优点

手感风格蓬松、细腻；  
与平滑型嵌段硅油复配使用，效果更显著；  
产品稳定性好。

### 基本性状

外 观：半透明乳液  
离子性：弱阳/非离子  
含 量：12%—13% (105°C, 3 小时)

### 应用范围

适用于各类以涤为主面料

### 参考用量

浸渍法：TK-415G      1~5% (o. w. f)  
浸轧法：TK-415G      10~50 g/L

### 包 装

50 或 120kg 塑料桶装。

### 贮 存

置于阴凉通风仓库，贮存期为六个月。

## **New super fluffy soft silicone oil TK-415G**

### **product description**

This product is a linear multi-copolymer block modified silicone softener

### **Features and benefits**

Feel the style is fluffy and delicate;

When used in combination with smooth block silicone oil, the effect is more significant;

Product stability is good.

### **Basic trait**

Appearance: Translucent emulsion

Ionicity: weak yang / non-ion

Content: 12% - 13% (105 ° C, 3 hours)

### **Application range**

Suitable for all kinds of polyester-based fabrics

### **Reference amount**

Dipping method: TK-415G 1~5% (o.w.f)

Padding method: TK-415G 10~50 g/L

### **Packing**

50 or 120kg plastic drums.

### **Storage**

Stored in a cool, ventilated warehouse with a storage period of six months.

## 棉用硅油乳液 TK-455G-1

### 产品概述

是一种线性多元共聚嵌段改性的有机硅柔软剂,它拥有全新的分子结构,在分子的主链上规整地嵌入了 E0、P0、季铵盐、环氧多种有机链段,从而赋予其较一般的嵌段硅油更佳优异的效果和更高性价比。

### 特性及优点

赋予织物优异的蓬松度、回弹性、柔糯感、悬垂感的手感风格;  
本产品含有较多的交联型活性基团,可以赋予织物优异的蓬松度;  
适用范围广,对含粘胶、棉的织物都有优异蓬松及厚实感效果;  
无黄变,适用于白色、浅色、增白织物的手感整理;  
在使用过程中完全不存在粘辊、粘缸、漂油、破乳等问题;  
可以和阳、非离子柔软剂复配使用,显著提高柔软剂的整体性能;  
和传统的氨基硅油乳液复配,可以提高其应用性能和耐酸碱稳定性;

### 基本性状

外观:透明液体  
离子性:弱阳离子  
含量:26%—28% (105°C, 3 小时)

### 应用范围

棉、锦棉、人棉、竹纤维、麻织物等综合手感整理

### 参考用量

浸轧工艺:  
TK-455G-1 5-40g/L  
浸渍工艺:  
TK-455G-1 1~5%  
温度:35~40°C  
PH 值:5.5~6.5  
时间:20~30min

### 包装

50 或 120kg 塑料桶装。

### 贮存

置于阴凉通风仓库,贮存期为六个月。

## Silicone oil emulsion for cotton TK-455G-1

### product description

Is a linear multi-copolymer block modified silicone softener with a new molecular structure.

EO, PO, quaternary ammonium salt, epoxy organic organic segments are regularly embedded in the main chain of the molecule.

It gives it a better effect and a higher cost performance than its more general block silicone oil.

### Features and benefits

A fabric style that imparts excellent bulk, resilience, suppleness, and drape to the fabric;

This product contains more cross-linking reactive groups, which can give the fabric excellent bulkiness;

Wide application range, excellent fluffy and thick feeling for fabrics containing viscose and cotton;

No yellowing, suitable for the finishing of white, light-colored, whitened fabrics;

There are no problems such as sticky roller, sticky cylinder, oil drifting, and demulsification during use;

It can be combined with cation and non-ionic softener to significantly improve the overall performance of the softener;

It is compounded with a traditional amino silicone oil emulsion to improve its application properties and acid and alkali resistance;

### Basic trait

Appearance: transparent liquid

Ionicity: weak cation

Content: 26% - 28% (105 ° C, 3 hours)

### Application range

Comprehensive touch of cotton, cotton, cotton, bamboo fiber, hemp fabric, etc.

### Reference amount

Padding process:

TK-455G-1 5-40g/L

Impregnation process:

TK-455G-1 1~5%

Temperature: 35~40° C

PH value: 5.5~6.5

Time: 20~30min

### Packing

50 or 120kg plastic drums.

### Storage

Stored in a cool, ventilated warehouse with a storage period of six months.

## 高浓平滑柔软硅油乳液 TK-463G

### 产品概述

该产品为特种有机硅三元共聚高浓乳液

### 特性及优点

手感特点平滑、柔软；  
能赋予织物超柔、清爽、细腻及弹性的手感；  
适用于机织布、针织布的柔软爽滑整理；  
对织物白度、色光、色牢度影响极小；  
可与软片等后整理剂同浴使用；  
用于棉织物手感效果明显，有突出的柔软、清爽、丰满、挺弹的效果；  
与蓬松型硅油乳液复配效果更佳；  
本产品较同类产品具有优异的稳定性，可以减少粘辊、漂油的问题。

### 基本性状

外观：微黄至透明流动液体  
离子性：弱阳离子  
PH 值：5.5-6.5  
含固量：28-30% (105℃×3 小时)

### 应用范围

主要用于棉织物

### 参考用量

浸轧工艺：TK-463G 10-30g/L  
浸渍工艺：TK-463G 3~5%  
温度：35~40℃  
PH 值：5.5~6.5  
时间：20~30min

### 包装

50 或 120kg 塑料桶装。

### 贮存

置于阴凉通风仓库，贮存期为六个月。

## High concentration smooth and soft silicone oil emulsion TK-463G

### product description

This product is a special silicone ternary copolymer high concentration emulsion

### Features and benefits

The feel is smooth and soft;  
It gives the fabric a soft, smooth, delicate and elastic feel;  
Suitable for soft and smooth finishing of woven fabrics and knitted fabrics;  
It has minimal influence on fabric whiteness, shade and color fastness;  
It can be used in the same bath as the finishing agent such as film;  
It is used for cotton fabrics with obvious hand feeling, and has outstanding soft, smooth, full and elastic effect;  
Better combination with fluffy silicone oil emulsion;  
This product has excellent stability compared with similar products, which can reduce the problem of sticky roller and bleaching.

### Basic trait

Appearance: yellowish to transparent flowing liquid

Ionicity: weak cation

PH value: 5.5-6.5

Solid content: 28-30% (105 ° C × 3 hours)

### Application range

Mainly used for cotton fabrics

### Reference amount

Padding process: TK-463G 10-30g/L

Impregnation process: TK-463G 3~5%

Temperature: 35~40° C

PH value: 5.5~6.5

Time: 20~30min

### Packing

50 or 120kg plastic drums.

### Storage

Stored in a cool, ventilated warehouse with a storage period of six months.

## 棉用超柔软蓬松硅油 TK-465G

### 产品概述

是一种特殊改性的有机硅柔软剂,它拥有全新的分子结构,从而赋予比一般的嵌段硅油更佳优异的效果,并且也改变了传统氨基硅油的特性,同时有效地解决了传统氨基硅油普遍存在着的问题。

### 特性及优点

手感特点蓬松、柔软,并具有一定滑度;  
乳液各项稳定性良好;可以减少粘辊、漂油的问题。  
产品通用性强,除棉织物以外,涤纶织物上手感也可以;  
对织物白度、色光、色牢度影响极小;  
可与软片等后整理剂复配使用;  
用于棉织物手感效果明显,有突出的柔软、蓬松、挺弹的效果;

### 基本性状

外观:透明液体  
离子性:弱阳离子  
含量:29%—30% (105°C, 3 小时)

### 应用范围

主要用于棉、锦棉、涤棉、人棉织物等

### 参考用量

浸轧工艺:TK-465G 10-30g/L  
浸渍工艺:TK-465G 3~5%  
温度:35~40°C  
PH 值:5.5~6.5  
时间:20~30min  
注:实际用量请根据厂家实际生产情况,酌情增减。

### 包装

50 或 120kg 塑料桶装。

### 贮存

置于阴凉通风仓库,贮存期为六个月。

## Super soft fluffy silicone oil TK-465G for cotton

The product overview is a specially modified silicone softener with a new molecular structure that gives superior performance to typical block silicone oils and also changes the properties of traditional amino silicone oils while effectively solving them. Traditional amino silicone oils are a common problem.

### Features and benefits

The handfeel is fluffy, soft, and has a certain degree of slip;

The emulsion has good stability; it can reduce the problem of sticky roller and bleaching.

The product has strong versatility, except for cotton fabrics, the feel of polyester fabric can also be;

It has minimal influence on fabric whiteness, shade and color fastness;

Can be used in combination with a finishing agent such as a film;

It is used for cotton fabrics with obvious hand feeling, and has outstanding soft, fluffy and quite elastic effect;

### Basic trait

Appearance: transparent liquid

Ionicity: weak cation

Content: 29% - 30% (105 ° C, 3 hours)

### Application range

Mainly used for cotton, nylon, polyester, cotton, etc.

### Reference amount

Padding process: TK-465G 10-30g/L

Impregnation process: TK-465G 3~5%

Temperature: 35~40 ° C

PH value: 5.5~6.5

Time: 20~30min

Note: The actual dosage should be increased or decreased according to the actual production situation of the manufacturer.

### Packing

50 or 120kg plastic drums.

### Storage

Stored in a cool, ventilated warehouse with a storage period of six months.



## 凉感挺滑整理剂 TK-433E

### 产品概述

该产品为特种有机硅改性聚硅氧烷

### 特性及优点

挺括滑爽的手感特点

比市场普通冰感硅油稳定性要好,具有持久高用量使用不粘辊特点

### 基本性状

外 观: 透明液体

离子性: 弱阳/非离子

含 量: 28%—30% (105°C, 3 小时)

### 应用范围

一般用于丝光棉、仿丝光棉的冰感整理

### 参考用量

浸渍法: TK-433E      2~8% (o. w. f)

浸轧法: TK-433E      40~120 g/L

### 包 装

50 或 120kg 塑料桶装。

### 贮 存

置于阴凉通风仓库,贮存期为六个月。

## Cool and smooth finishing agent TK-433E

### product description

This product is a special silicone modified polysiloxane

### Features and benefits

Straight and smooth feel

It is more stable than the ordinary ice-sensitive silicone oil in the market, and has the characteristics of long-lasting high-use non-stick roller.

### Basic trait

Appearance: transparent liquid

Ionicity: weak yang / non-ion

Content: 28% - 30% (105 ° C, 3 hours)

### Application range

Generally used for ice-sensitive finishing of mercerized cotton and mercerized cotton

### Reference amount

Dipping method: TK-433E 2~8% (o.w.f)

Padding method: TK-433E 40~120 g/L

### Packing

50 or 120kg plastic drums.

### Storage

Stored in a cool, ventilated warehouse with a storage period of six months.

## 羊毛爽滑整理剂 TK-445

### 产品概述

该产品属于特殊有机硅复配物

### 特性及优点

爽滑柔软细腻的手感特点；  
整理织物色泽鲜艳，可进一步改善羊毛的防毡缩性能；  
能够快速、均匀地被织物吸附，并沉积在纤维的表面及内部，并具有良好的成膜性能；  
可与阳离子、非离子型助剂复配使用；  
能够提高羊毛织物的折皱恢复及回弹性能。

### 基本性状

外观：乳白色  
离子性：弱阳离子  
含固量：15-17%（105℃×3 小时）

### 应用范围

蛋白质纤维（羊毛织物、丝绸织物）

### 参考用量

羊毛织物一般采用浸渍工艺：  
TK-445                    3~8%  
温度：35~40℃  
PH 值：5~6  
时间：20~30min

### 包装

50 或 120kg 塑料桶装。

### 贮存

置于阴凉通风仓库，贮存期为六个月。

## Wool smoothing finishing agent TK-445

### product description

This product belongs to special silicone compound

### Features and benefits

Sleek, soft and delicate touch characteristics;

The color of the finishing fabric is bright, which can further improve the anti-felting performance of the wool;

It can be quickly and uniformly adsorbed by fabric, deposited on the surface and inside of the fiber, and has good film forming properties;

Can be used in combination with cationic and nonionic additives;

It can improve the wrinkle recovery and resilience of wool fabric.

### Basic trait

Appearance: milky white

Ionicity: weak cation

Solid content: 15-17% (105 ° C × 3 hours)

### Application range

Protein fiber (wool fabric, silk fabric)

### Reference amount

Wool fabrics are generally impregnated:

TK-445 3~8%

Temperature: 35~40° C

PH value: 5~6

Time: 20~30min

### Packing

50 or 120kg plastic drums.

### Storage

Stored in a cool, ventilated warehouse with a storage period of six months.

## 高浓松软平滑剂 TK-456G

### 产品概述

该产品属于特殊有机硅复配物

### 特性及优点

手感特点爽滑、松软高档风格；  
具有一定的改善织物的光泽度和鲜艳度。

### 基本性状

外 观：半透明乳液  
离子性：弱阳离子  
含 量：28%—29% (105°C, 3 小时)

### 应用范围

天然纤维、牛仔面料等

### 参考用量

织物一般采用浸渍工艺：  
TK-456G (1: 2~3)      6~10%  
温 度：35~40°C  
PH 值：5~6  
时 间：20~30min

### 包 装

50 或 120kg 塑料桶装。

### 贮 存

置于阴凉通风仓库，贮存期为六个月。

## High-concentration soft smoothing agent TK-456G

### product description

This product belongs to special silicone compound

### Features and benefits

Feel the characteristics of smooth, soft and high-grade style;

It has a certain improvement in the gloss and vividness of the fabric.

### Basic trait

Appearance: Translucent emulsion

Ionicity: weak cation

Content: 28% - 29% (105 ° C, 3 hours)

### Application range

Natural fiber, denim fabric, etc.

### Reference amount

The fabric is generally impregnated:

TK-456G (1:2~3) 6~10%

Temperature: 35~40° C

PH value: 5~6

Time: 20~30min

### Packing

50 or 120kg plastic drums.

### Storage

Stored in a cool, ventilated warehouse with a storage period of six months.

## 涤纶亲水蓬松柔软剂 TK-411

### 产品概述

该产品属于高分子脂类柔软剂

### 特性及优点

亲水性超好，手感一般；  
高浓（100%含量）产品为块状颗粒。

### 基本性状

外 观：微黄色半透明液体  
离子性：非离子  
含 量：8%—9%（105℃, 3 小时）

### 应用范围

涤、棉、麻、锦纶等各种织物

### 参考用量

浸渍法：TK-411      3~5% (o. w. f)  
浸轧法：TK-411      10~40 g/L

### 包 装

50 或 120kg 塑料桶装。

### 贮 存

置于阴凉通风仓库，贮存期为六个月。

## **Polyester hydrophilic fluffy softener TK-411**

### **product description**

This product is a high molecular fat softener

### **Features and benefits**

The hydrophilicity is super good and the hand feel is normal;

The high concentration (100% content) product is a lumpy particle.

### **Basic trait**

Appearance: yellowish translucent liquid

Ionic: nonionic

Content: 8%-9% (105 ° C, 3 hours)

### **Application range**

Polyester, cotton, hemp, nylon and other fabrics

### **Reference amount**

Dipping method: TK-411 3~5% (o.w.f)

Padding method: TK-411 10~40 g/L

### **Packing**

50 or 120kg plastic drums.

### **Storage**

Stored in a cool, ventilated warehouse with a storage period of six months.



## 超软速溶型软片ST

**主要成分** 脂肪酸咪唑啉化合物

**技术指标**

外观	浅黄色片状固体
pH 值(1%水溶液)	4.0-6.0
离子性	阳

### 性能及特点

1. 手感柔软，兼有滑度，蓬松丰满。
2. 能与起毛剂复配，赋予织物很好的拉毛、起毛效果。
3. 具有良好的稳定性和配伍性，在pH3-10范围内能很好地稳定于工作液中；与阳、非离子助剂有很好的相溶性。

### 适用范围

适用于棉、麻、腈纶及混纺织物的柔软整理和牛仔水洗工艺。

### 使用方法

1. 乳液配制：建议化料比例：**1:10-1:15**，也可根据实际需要调整配制浓度。  
A冷水化料方法：将软片按比例直接加入常温水中，浸泡2h,然后搅拌约30min，搅匀后过滤待用。  
B热水化料方法：按比例先放入2/3冷水，然后将软片慢慢加入冷水中并搅拌，搅拌浸泡5-10min后，然后边搅拌边加热至60℃左右，停止加热，保温搅拌约20min，再加1/3冷水，继续搅拌降温至40℃以下，制成乳液后过滤待用。
2. 推荐工艺及用量
  - 1) 浸渍工艺：乳液用量2.0-8.0% (o.w.f)，温度20-40℃；
  - 2) 浸轧工艺：乳液用量20-100g/L，室温浸轧，烘干。具体工艺请用户通过试样酌情调整。

### 注意事项

1. 避免加热温度过高。
2. 不建议直接用高温热水化料。

### 包装与贮存

25千克编织袋，置阴凉通风仓库，谨防重压，以免结块，常温下保质期18个月。

## Super soft instant Softener ST

Main ingredient fatty acid imidazoline compound

Technical indicators Appearance Light yellow flaky solid

pH (1% aqueous solution) 4.0-6.0

Ionicity

### Performance and characteristics

1. Soft to the touch, with a smoothness, fluffy and plump.
2. It can be compounded with the hair raising agent to give the fabric a good pulling and raising effect.
3. It has good stability and compatibility, and it is well stabilized in working fluid in the range of pH 3-10; it has good compatibility with cation and non-ionic additives.

### Scope of application

It is suitable for soft finishing and denim washing process of cotton, linen, acrylic and blended fabrics.

### Instructions

1. Emulsion preparation: Proposed ratio of chemical materials: 1:10-1:15, and the concentration can be adjusted according to actual needs.

A cold water chemical method: the film is directly added to the normal temperature water in proportion, soaked for 2h, then stirred for about 30min, stirred and filtered for use.

B hot water method: firstly put 2/3 cold water in proportion, then slowly add the film into cold water and stir, stir for 5-10min, then stir to about 60 ° C while stirring, stop heating, keep warm and stir. About 20min, add 1/3 cold water, continue to stir and cool down to below 40 ° C, make emulsion and filter for use.

2. Recommended process and dosage

1) Impregnation process: the dosage of the emulsion is 2.0-8.0% (o.w.f), the temperature is 20-40 ° C;

2) padding process: the amount of emulsion is 20-100g/L, padded at room temperature, and dried.

The specific process should be adjusted by the user as appropriate.

### Precautions

1. Avoid heating temperatures that are too high.
2. It is not recommended to use high temperature hot water directly.

### Packaging and storage

25 kg woven bag, placed in a cool and ventilated warehouse, beware of heavy pressure to avoid agglomeration, shelf life of 18 months at room temperature.

## 通用型软片KT

主要成分	脂肪酸有机胺化合物	
技术指标	外观	浅黄色片状固体
	pH 值(1%水溶液)	4.0-6.0
	离子性	弱阳

### 性能及特点

1. 能赋予整理织物柔软、丰满的手感，明显提高织物的触感。
2. 较小的黄变和色变性能，可以用于浅色、白色的织物柔软整理。
3. 良好的复配稳定性，可与增白剂、固色剂、树脂整理剂等同浴使用，缩短工艺。
4. 优异的耐电解质及耐硬水性能，可以有效改善因水洗不净引起的布面的柔软不匀、泡沫斑等问题。可以在溢流缸、气流缸等小浴比加工设备中使用。

### 适用范围

适用于棉、麻、腈纶及混纺织物的柔软整理和牛仔水洗工艺。

### 使用方法

#### 1.乳液配制：

1) 配制浓度：建议配制10%（10倍稀释）的浓度，也可根据实际需要调整配制浓度。

2) 配制方法：按比例先放入2/3冷水，再将软片慢慢加入冷水中并搅拌5-10min后，然后边搅拌边加热至60-70℃左右，停止加热，保温搅拌约60min，继续搅拌补加1/3的冷水降温至40℃以下，过滤待用。

#### 2.推荐工艺及用量

- 1) 浸渍工艺：

乳液用量	2.0-6.0% (o.w.f)
温度	25-40℃
时间	15-30min
- 2) 浸轧工艺：乳液用量 20-50g/L，室温浸轧，烘干。  
具体工艺请用户通过试样酌情调整。

### 注意事项

1. 避免加热温度过高。
2. 不建议直接用高温热水化料。

### 包装与贮存

25千克编织袋，置阴凉通风仓库，谨防重压，以免结块，常温下保质期18个月。

## Universal Softener KT

Main ingredient fatty acid imidazoline compound

Technical indicators Appearance Light yellow flaky solid

pH (1% aqueous solution) 4.0-6.0

Ionic weak yang

### Performance and characteristics

1. It can give the finishing fabric a soft and full hand feeling, and obviously improve the touch of the fabric.
2. Small yellowing and color change properties, can be used for soft finishing of light and white fabrics.
3. Good compounding stability, can be used in the same bath as brightener, fixing agent and resin finishing agent to shorten the process.
4. Excellent electrolyte and hard water resistance, can effectively improve the softness and unevenness of the fabric surface caused by the washing, and foam spots. It can be used in small bath ratio processing equipment such as overflow tanks and air flow cylinders.

### Scope of application

It is suitable for soft finishing and denim washing process of cotton, linen, acrylic and blended fabrics.

### Instructions

1. Emulsion preparation:

- 1) Preparation concentration: It is recommended to prepare a concentration of 10% (10 times dilution), and the concentration can also be adjusted according to actual needs.
- 2) Preparation method: firstly put 2/3 cold water in proportion, then slowly add the soft film to cold water and stir for 5-10min, then heat it to about 60-70 ° C while stirring, stop heating, and keep stirring for about 60min. Continue to stir and add 1/3 of cold water to cool down to below 40 ° C, and filter for use.

2. Recommended process and dosage

- 1) Impregnation process: Emulsion dosage 2.0-6.0% (o.w.f)

Temperature 25-40 ° C

Time 15-30min

- 2) Padding process: The amount of emulsion is 20-50g/L, padded at room temperature, and dried.

The specific process should be adjusted by the user as appropriate.

### Precautions

1. Avoid heating temperatures that are too high.
2. It is not recommended to use high temperature hot water directly.

### Packaging and storage

25 kg woven bag, placed in a cool and ventilated warehouse, beware of heavy pressure to avoid agglomeration, shelf life of 18 months at room temperature.

## 洗水专用软片FS

主要成分	脂肪酸和有机胺化合物	
技术指标	外观	浅黄色片状固体
	pH 值（1%水溶液）	4.0-6.0
	离子性	阳

### 性能及特点

1. 能赋予整理织物蓬松、柔软、丰满的手感。
2. 化料方便，在常温冷水中即可搅拌溶解。
3. 与固色剂等阳离子助剂可同浴使用。
4. 有润滑效果，减少摩擦有利于起绒和磨毛。

### 适用范围

适用于各种牛仔布，水洗布，羊毛衫，毛巾等纺织品上软，可达到柔软蓬松之目的。

### 使用方法

1. 乳液配制：一般建议配制6-10%的浓度，也可根据实际需要调整，但最好不要太高。

配制方法：将软片按比例直接加入冷水中，搅拌约30-60min，搅匀后过滤待用。

2. 推荐工艺及用量

1) 浸渍工艺：乳液用量	2.0-8.0% (o.w.f)
温度	25-40℃
时间	15-30min

2) 浸轧工艺：乳液用量 20-100g/L，室温浸轧，烘干。

具体工艺请用户通过试样酌情调整。

### 包装与贮存

25千克编织袋，置阴凉通风仓库，谨防重压，以免结块，常温下保质期18个月。

## Washing special Softener FS

Main ingredients fatty acids and organic amine compounds

Technical indicators Appearance Light yellow flaky solid

pH (1% aqueous solution) 4.0-6.0

Ionicity

### Performance and characteristics

1. It can give the finishing fabric a fluffy, soft and full hand.
2. The material is convenient, and it can be stirred and dissolved in cold water at normal temperature.
3. It can be used in the same bath as cationic additives such as fixing agent.
4. Has a lubricating effect, reducing friction is conducive to raising and sanding.

### Scope of application

Applicable to a variety of denim, washed cloth, sweaters, towels and other textiles soft, can achieve the purpose of soft fluffy.

### Instructions

1. Emulsion preparation: It is generally recommended to prepare a concentration of 6-10%, which can also be adjusted according to actual needs, but it is best not to be too high.

Preparation method: the film is directly added into cold water in proportion, stirred for about 30-60 min, stirred and filtered for use.

2. Recommended process and dosage

- 1) Impregnation process: dosage of emulsion 2.0-8.0% (o.w.f)

Temperature 25-40 ° C

Time 15-30min

- 2) Padding process: the amount of emulsion is 20-100g/L, padded at room temperature, and dried.

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

25 kg woven bag, placed in a cool and ventilated warehouse, beware of heavy pressure to avoid agglomeration, shelf life of 18 months at room temperature.

## 非离子型软片 FE

主要成分	脂肪酸和多元醇化合物	
技术指标	外观	白色至浅黄色片状固体
	pH值（1%水溶液）	6.0-8.0
	离子性	非

### 性能及特点

1. 能赋予整理织物柔软、干爽的手感。
2. 较好的亲水性能。
3. 对整理后织物的白度及色光影响极小。
4. 良好的配伍性能，与阴、阳离子助剂均有很好的相溶性。

### 适用范围

适用于棉、麻及其混纺织物的柔软整理。

### 使用方法

1. 乳液配制：建议化料比例：1:10-1:20，也可根据实际需要调整配制浓度。

配制方法：按比例先放入三分之二冷水，再将软片慢慢加入冷水中并搅拌，搅拌浸泡

5-10min后，边搅拌边加热至70℃左右，停止加热，保温搅拌约45min，然后再加三分之一冷水，继续搅拌降温至40℃以下，停止搅拌以免结皮，乳液制成后过滤待用。

2. 推荐工艺及用量

1) 浸渍工艺：乳液用量 3.0-8.0% (o.w.f)

温度 25-40℃

时间 15-30min

2) 浸轧工艺：乳液用量 30-80g/L，室温浸轧，烘干。

具体工艺请用户通过试样酌情调整。

### 注意事项

1. 建议使用杀菌水单独化料，避免接触强酸物质。
2. 配好的乳液不宜长期存放，以免霉变。

### 包装与贮存

25千克编织袋，置阴凉通风仓库，谨防重压，以免结块，常温下保质期12个月。

## Non-ionic Softener FE

Main ingredients fatty acids and polyol compounds

Technical Specifications Appearance White to light yellow flake solid

pH (1% aqueous solution) 6.0-8.0

Ionicity

### Performance and characteristics

1. It can give the finishing fabric a soft, dry feel.
2. Better hydrophilic properties.
3. The effect on the whiteness and shade of the finished fabric is minimal.
4. Good compatibility, good compatibility with anionic and cationic additives.

### Scope of application

Suitable for soft finishing of cotton, linen and blended fabrics.

### Instructions

1. Emulsion preparation: Proposed ratio of chemical materials: 1:10-1:20, and the concentration can be adjusted according to actual needs.

Preparation method: firstly put two-thirds of cold water in proportion, then slowly add the film into cold water and stir, stir and soak

After 5-10min, stir to about 70 ° C while stirring, stop heating, heat stirring for about 45min, then add one third of cold water, continue stirring and cool down to below 40 ° C, stop stirring to avoid skinning, after the emulsion is made to filter stand-by.

2. Recommended process and dosage

1) Impregnation process: dosage of emulsion 3.0-8.0% (o.w.f)

Temperature 25-40 ° C

Time 15-30min

2) padding process: the amount of emulsion is 30-80g/L, padded at room temperature, and dried.

The specific process should be adjusted by the user as appropriate.

### Precautions

1. It is recommended to use sterilized water alone to avoid contact with strong acid substances.
2. The prepared emulsion should not be stored for a long time to avoid mildew.

### Packaging and storage

25 kg woven bag, placed in a cool and ventilated warehouse, beware of heavy pressure to avoid agglomeration, shelf life of 12 months at room temperature.



## 亲水性阳离子软片DW

主要成分	特殊脂肪酰胺化合物	
技术指标	外观	淡黄色片状物
	pH值(1%水溶液)	4.0-6.0
	离子性	弱阳

### 性能及特点

1. 赋予整理织物柔软、清爽的手感。
2. 优异的亲水及抗静电性能，可不退软回修。
3. 具有极低的泡沫，可用于溢流染色机中上柔。
4. 具有良好的稳定性和配伍性，在pH 3-10范围内能很好地稳定于工作液中；与阳、非离子助剂有很好的相溶性。

### 适用范围

适用于漂白、浅色及对色光有严格要求的纱线、织物和面料的柔软整理；

### 使用方法

1. 乳液配制：一般建议按1化10或1化20的比例化料，也可根据实际需要调整配制浓度。

冷水稀释法：按配比将称好的软片放入30℃冷水中浸泡15-30min，再搅拌30-60min，搅匀后过滤待用。

热水稀释法：将软片按比例直接加入40-60℃的热水中，搅拌约30min，过滤待用。

### 2. 推荐工艺及用量

- 1) 浸渍工艺：

乳液用量	2.0-6.0% (o.w.f)
温度	25-40℃
时间	15-30min

- 2) 浸轧工艺：乳液用量 20-100g/L，室温浸轧，烘干。

具体工艺请用户通过试样酌情调整。

### 包装与贮存

25千克编织袋，置阴凉通风仓库，谨防重压，以免结块，常温下保质期18个月。

## Hydrophilic cationic Softener DW

Main ingredients, special fatty amide compounds

Technical indicators Appearance Light yellow flakes

pH (1% aqueous solution) 4.0-6.0

Ionic weak yang

### Performance and characteristics

1. Give the finished fabric a soft, smooth feel.
2. Excellent hydrophilic and antistatic properties, can be repaired without retreating.
3. With very low foam, it can be used in the overflow dyeing machine.
4. It has good stability and compatibility, and it is well stabilized in working fluid in the range of pH 3-10; it has good compatibility with cation and non-ionic additives.

### Scope of application

Suitable for soft finishing of yarns, fabrics and fabrics with strict requirements for bleaching, light color and shade;

### Instructions

1. Emulsion preparation: It is generally recommended to use a ratio of 10 to 10 or 1 to 20, or adjust the concentration according to actual needs.

Cold water dilution method: soak the weighed film into 30 ° C cold water for 15-30 min according to the ratio, stir for 30-60 min, stir well and filter for use.

Hot water dilution method: The film is directly added to the hot water of 40-60 ° C in proportion, stirred for about 30 minutes, and filtered for use.

2. Recommended process and dosage

- 1) Impregnation process: Emulsion dosage 2.0-6.0% (o.w.f)

Temperature 25-40 ° C

Time 15-30min

- 2) Padding process: The amount of emulsion is 20-100g/L, padded at room temperature, and dried.

The specific process should be adjusted by the user as appropriate.

### Packaging and storage

25 kg woven bag, placed in a cool and ventilated warehouse, beware of heavy pressure to avoid agglomeration, shelf life of 18 months at room temperature.