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科润生物

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## New Performance Brochure 新品推广册

青岛科润生物科技有限公司

QINGDAO KERUN BIO-TECHNOLOGY CO.,LTD

手感领航者  
Feel creation expert



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Qingdao Kerun Bio-technology Co., LTD. is a comprehensive high-tech enterprise incorporating bio-tech research, development, manufacture and trade, which has three branches as textile auxiliary branch, water treatment branch and leather auxiliary branch and sets up technology R&D departments as Shanghai R&D center, Hefei laboratory, Qingdao R&D center to provide fast and reliable technical support and quality assurance for new product development and upgrade.

Textile auxiliary branch produces finishing agents as stiffening agent, fabric thickening agent, binder, printing thickener, silicone oil, softener flake etc and achieved industry leading level. Water treatment branch mainly produces scale inhibitor, special RO system agent, boiler water energy saving agent etc. Boiler water energy saving technology each year saves energy that is equivalent to 50,000 tons of standard coal. Leather Auxiliary branch specializes in producing water field leather auxiliaries. The whole company total annual output is more than 50,000 tons.

Qingdao Kerun Bio-Technology Co., Ltd. adheres to the spirit of "let the world be colorful because of us" and would like to be a ruler to measure the higher level of the industry, to be a pillar to support the "Quality China" new chapter!



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Stiffening Agent  
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01

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## Stiffening Agent KR-206

### 【Specification】

After finishing with this product, fabric can get high stiffness and durable effect. This product is widely used for stiff finishing process in after treatment of polyester, polyester/cotton fabrics.

### 【Technical Index】

- Appearance: Milky white emulsion
- Composition: High molecular copolymer
- PH Value(10% solution):5.5-6.5
- Ionicity: Nonionic
- Solid content:  $44 \pm 1\%$
- Solubility: dilute with water at any ratio

### 【Application】

- It can be used in the same bath with softeners and soften flakes and after dipping/drying process the fabric can get stiff, smooth and thick handle.

### 【Storage & Packing】

- 50KG or 125KG plastic drum packing.
- Storage for 6 months in 1-32 °C cool and shady place.

## Stiffening Agent KR-217B

### 【Specification】

After finishing with this product, fabric can get high stiffness and obvious thick handle. This product is widely used for stiff finishing process in after treatment of polyester, polyester/cotton fabrics. With surface brightener it can be used for batik calendaring finishing to impart good gloss.

### 【Technical Index】

- Appearance: Milky white paste
- Composition: High molecular copolymer
- PH Value(10% solution):5.5-6.5
- Ionicity: Nonionic
- Solid content:  $46 \pm 1\%$
- Solubility: dilute with water at any ratio

### 【Application】

- It can be used in the same bath with softeners and soften flakes and after dipping/drying process the fabric can get stiff, smooth and thick handle.

### 【Storage & Packing】

- 50KG or 125KG plastic drum packing.
- Storage for 6 months in 1-32 °C cool and shady place.



# Stiffening Agent KR-850B

## 【Specification】

This product is environmental friendly and is widely used for cotton, polyester, acrylic fiber, polyester/cotton and other blended fabrics in starching finishing process. The fabric can get good hardness, obvious thick and stiff effect after using this product.

## 【Technical Index】

- Appearance: Milky white emulsion
- PH Value(10% solution):5.5-6.5
- Ionicity: Nonionic
- Solid content:  $50 \pm 1\%$
- Solubility: Easily soluble in water

## 【Dosage】

- Padding method: 20g-50g/L
- Dosage can be adjusted per specific technology

## 【Storage & Packing】

- 50KG or 125KG plastic drum packing.
- Storage for 6 months in cool and shady place.

# Stiffening Agent KR-122

## 【Specification】

Used for coating finishing of various fiber fabrics, and can get effects of anti-yellowing, thickening, anti-shrinkage as well as anti-wrinkle and with certain elasticity.

## 【Technical Index】

- Appearance: Colorless transparent liquid
- PH Value(10% solution):6-7
- Ionicity: Anionic
- Solid content: 45%
- Solubility: Easily soluble in water

## 【Advantages】

- High stiffness, durable effect.
- Good resilience.
- Good anti-wrinkle and anti-shrinkage effect.

## 【Usage & Dosage】

- Use with catalyzer at ratio: 5:1.
  - Dosage(after-treatment starching):30-80g/L
- Dosage can be adjusted per specific technology

## 【Storage & Packing】

- 125KG plastic drum packing, or per demand.
- Storage for 3- 6 months common warehouse, 6 months below 20°C.



## Fabric Thickening Agent KR-32

### 【Specification】

This product is widely used in starching process of cotton, polyester and blended fabrics to improve fabric thickness. The fabric can get good fluffy, thick handle and elasticity, good rubbing resistance and durable effect.

### 【Technical Index】

- Appearance: Milky white emulsion
- PH Value: 6-7
- Ionicity: Nonionic
- Solid content:  $36 \pm 1\%$
- Solubility: dilute with water at any ratio

### 【Advantages】

- Better handle than stiffening agent in softness, thickness and fluffy effect, good rubbing resistance and durable .
- When making the same fabric thickness, it's more comprehensive cost-effective than stiffening agent by costing less softener/ softener flake.
- Delicate without rough hand feel, strong cotton feel.

### 【Storage & Packing】

- 50KG or 125KG plastic drum packing.
- Storage for 6 months in cool and shady place.

## Fabric Thickening Agent KR-75

### 【Specification】

This product is widely used in starching process of all kinds of blended fabrics to improve fabric thickness. The fabric can get good fluffy, thick handle and elasticity, good rubbing resistance and durable effect.

### 【Technical Index】

- Appearance: Milky white emulsion
- PH Value: 6-7
- Ionicity: Nonionic
- Solid content:  $40 \pm 1\%$
- Solubility: dilute with water at any ratio

### 【Advantages】

- Better handle than stiffening agent in softness, thickness and fluffy effect, good rubbing resistance and durable .
- When making the same fabric thickness, it's more comprehensive cost-effective than stiffening agent by costing less softener/ softener flake.
- Delicate without rough hand feel, strong cotton feel.

### 【Storage & Packing】

- 50KG or 125KG plastic drum packing.
- Storage for 6 months in cool and shady place.



## Fabric Thickening Agent KR-73A

### 【Specification】

This product is widely used in starching process of cotton, polyester and blended fabrics to improve fabric thickness. The fabric can get good fluffy, thick handle and elasticity, good rubbing resistance and durable effect.

### 【Technical Index】

- Appearance: Milky white emulsion
- PH Value: 6-7
- Ionicity: Nonionic
- Solid content:  $42 \pm 1\%$
- Solubility: dilute with water at any ratio

### 【Advantages】

● Better handle than stiffening agent in softness, thickness and fluffy effect, not rigid and good rubbing resistance and durable .

● When making the same fabric thickness, it's more comprehensive cost-effective than stiffening agent by costing less softener/ softener flake.

- Delicate without rough hand feel, strong cotton feel.

### 【Storage & Packing】

- 50KG or 125KG plastic drum packing.
- Storage for 6 months in cool and shady place.

## Cotton Feeling Agent KR-639

### 【Specification】

This product contains imported cellulose extracted from plant cotton, synthesized by chemical synthesis and grafting. After finishing, the fabric can get strong cotton feeling as soft, astringent, no slippery, thick and fluffy handle.

### 【Technical Index】

- Appearance: Milky white emulsion
- PH Value(10% solution): 6-7
- Ionicity: Weak cationic
- Solid content:  $45 \pm 1\%$

### 【Property】

- Give fabric soft, astringent, fluffy handle, no slippery.
- Very strong and durable cotton feeling on fabrics.

### 【Usage & Dosage】

- Padding method: 30-50g/L
- Dosage can be adjusted per specific technology.

### 【Storage & Packing】

- 50KG or 125KG plastic drum packing.
- Storage for 6 months in cool and shady place.





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02

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## Cool Silicone Oil KR-8701 & KR-8709

### 【Specification】

**Fabric type:** Rayon, Modal, Odile

**Component:** Multi-actives Amino silicone oil

**Property:**

- Gives rayon, modal and odile and blended fabric soft, draping, smooth hand feeling
- Offers good effect for the film on the fiber, cross-linking affinity.
- Can be used as a normal softener in case of changes the dosage.

### 【Technical Index】

Product name	KR-8701	KR-8709
Appearance	transparent liquid	transparent liquid
Ph Value	6.0	6.0
Ionicity	Weak cationic	Weak cationic
Softness	★★★★☆	★★★★☆
Stability	★★★★★	★★★★☆
Application	Excellent soft and smooth effect, super slippery effect.	

### 【Usage】

- Padding:  
Dosage: 5~30g/L (for soft & smooth treatment)  
60~80g/L (for smooth & cool feel) Temp.: room temperature  
Process: one dip, one pad or two dips, two pads
- Dipping:  
Dosage: 3~8%( o.w.f) Temp.: 30°C~40°C  
Liquor ratio: 1:10 ~15 Time: 30mins

### 【Storage & Packing】

- Storage: 6 months in cool and shady place.
- Packing: 120kg plastic drum.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.

## Elastic Silicone Oil KR-8957 & KR-8961

### 【Specification】

**Fabric type:** Nylon, polypropylene fiber, spandex.

**Component:** Special silicone oil

**Property:**

- Gives fabrics fluffy, smooth and elastic feel.
- Improved tearing strength and wrinkle resistance of fabrics.
- Good washability and antistatic property.

### 【Technical Index】

Product name	KR-8957	KR-8961
Appearance	Milky white liquid	Milky white liquid
Ionicity	Weak cationic	Weak cationic
Elastic	★★★★★	★★★★★
Softness	★★★☆☆	★★★☆☆
Smooth	★★★★☆	★★★★☆
Application	Elastic & Fluffy	Better fluidity

### 【Usage】

- Padding:  
Dosage: 20~50g/L Temp.: room temperature  
Process: one dip, one pad or two dips, two pads
- Dipping:  
Dosage: 2~10 %( o.w.f) Temp.: 30°C~40°C  
Liquor ratio: 1:10 ~15 Time: 30mins

### 【Storage & Packing】

- Storage: 6 months in cool and shady place.
- Packing: 120kg plastic drum.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



# Fluffy Block Silicone Oil

## KR-8508

### 【Specification】

**Fabric type:** Chemical fibre and blended fabrics

**Component:** Multiple copolymerization block silicone oil

### Property:

- To give the fabric a fluffy, plump feel, and make the fabrics surface fluffy and elastic.
- Offers a very good self-emulsify system.
- Offers very good salt and alkali resistant, shear resistance and heat stability.

### 【Technical Index】

Product name	KR-8508	KR-8508D
Appearance	Yellowish or transparent viscous liquid	Yellowish transparent liquid
pH value	7.0~8.0	6.0
Fluffy	★★★★★	★★★★★
Softness	★★★★☆	★★★★☆
Stability	★★★★★	★★★★★
Application	To give the fabric fluffy and soft hand feeling.	

### 【Usage】

- **Padding:**  
Dosage: 20~50g/L Temp.: room temperature  
Process: one dip, one pad or two dips, two pads
- **Dipping:**  
Dosage: 2~10 % ( o.w.f) Temp.: 30°C~40°C  
Liquor ratio: 1:10 ~15 Time: 30mins

### 【Storage & Packing】

- Storage: 6 months in cool and shady place.
  - Packing: 120kg plastic drum.
- Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.

# Hydrophilic Silicone Oil For Towel

## KR-8501 & KR-8707

### 【Specification】

**Fabric type:** Towel

**Component:** Block silicone oil

### Property:

- Very good compatibility with brightening agent, White fiber with less yellowing
- Gives very good hydrophilic and antistatic property.
- Offers very good salt and alkali resistant, shear resistance and heat stability.

### 【Technical Index】

Product	KR-8501	KR-8502	KR-8707
Appearance	light yellow transparent liquid	light yellow transparent liquid	light yellow transparent liquid
Ph Value	5.0~6.0	5.0~6.0	5.0~6.0
Hydrophilic	5 seconds	15 seconds	instant
Softness	★★★★★	★★★★☆	★★★★☆
Stability	Salt,alkali,shear, heat resist	Salt,alkali,shear, heat resist	Salt,alkali,shear, heat resist
Application	Good touch,hydrophilic	Cheap, stable	Instant hydrophilic

Notice: Hydrophilic speed depending on the capillary effect of towel pretreatment.

### 【Usage】

- **Padding:**  
Dosage: 20~50g/L Temp.: room temperature  
Process: one dip, one pad or two dips, two pads
- **Dipping:**  
Dosage: 2~10% ( o.w.f) Temp.: 30°C~40°C  
Liquor ratio: 1:10 ~15 Time: 30mins

### 【Storage & Packing】

- Storage: 6 months in cool and shady place.
- Packing: 120kg plastic drum.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



# Staple RayonSilicone Oil

## KR-8705 & KR-8708

### 【Specification】

**Fabric type:** Rayon,model

**Component:** Special Modified Amino silicone oil

### Property:

- Give softness,draping and slippery handle on staple rayon and model fabrics.
- Have less effect on fabrics whiteness,color shade and fastness.
- Has good solubility, compatibility and stability.

### 【Technical Index】

Product name	KR-8708	KR-8705
Feature	milky white liquid	milky white liquid
Ph Value	6.0	6.0
Hydrophilic	★★★★☆	★★★★☆
Softness	★★★★☆	★★★★☆
Ionicity	Weak cationic	Weak cationic
Application	Give Staple rayon fabrics draping, softness and slippery	Give Staple rayon fabrics good hand feeling

### 【Usage】

- Padding:  
Dosage: 20~50g/L Temp.: room temperature  
Process: one dip, one pad or two dips, two pads
- Dipping:  
Dosage: 2~10% (o.w.f) Temp.: 30°C~40°C  
Liquor ratio: 1:10~15 Time: 30mins

### 【Storage & Packing】

- Storage: 6 months in cool and shady place.
  - Packing: 120kg plastic drum.
- Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.

# Velvet (Short Wool) Silicone Oil

### 【Specification】

**Fabric type:** Velvet, flocking series

**Component:** Modified Amino silicone oil

### Property:

- Have good intermiscibility and compatibility with Non-ionic and Cationic products.
- Has good anti-static ability. Gives fluffy, elastic resilience, soft, smooth handle.
- Has high stability with anti salt, anti-HAC and high temperature ability.

### 【Technical Index】

Product name	KR-8959	KR-8960
Feature	milky white liquid	milky white liquid
Ph Value	5.0~6.0	5.0~6.0
Softness	★★★★★	★★★★★
Stability	★★★★☆	★★★★☆
Application	Soft, fluffy	Soft, smooth, extinguish

### 【Usage】

- Padding:  
Dosage: 20~50g/L Temp.: room temperature  
Process: one dip, one pad or two dips, two pads
- Dipping:  
Dosage: 2~10% (o.w.f) Temp.: 30°C~40°C  
Liquor ratio: 1:10~15 Time: 30mins

### 【Storage & Packing】

- Storage: 6 months in cool and shady place.
  - Packing: 120kg plastic drum.
- Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



# Velvet (Long Wool)

## Silicone Oil

### 【Specification】

**Fabric type:** Crystal super soft, spandex super soft, velvet, cotton wool and other plush.

**Component:** Modified Amino silicone oil

### Property:

- Have good intermiscibility and compatibility with Non-ionic and Cationic products.
- Has good anti-static ability. Gives fluffy, elastic resilience, soft, smooth handle.
- Has high stability with anti salt, anti-HAC and high temperature ability.

### 【Technical Index】

Product name	KR-8937	KR-8938
Feature	milky white liquid	milky white liquid
Ph Value	5.0~6.0	5.0~6.0
Softness	★★★★★	★★★★★
Stability	★★★★☆	★★★★☆
Application	Soft, fluffy	Soft, smooth, extinguish

### 【Usage】

#### ●Padding:

Dosage: 20~50g/L                      Temp.: room temperature

Process: one dip, one pad or two dips, two pads

#### ●Dipping:

Dosage: 2~10% (o.w.f)                      Temp.: 30°C~40°C

Liquor ratio: 1:10~15                      Time: 30mins

### 【Storage & Packing】

●Storage: 6 months in cool and shady place.

●Packing: 120kg plastic drum.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.

# Velvet Hand Feeling

## Silicone Oil KR-8505B

### 【Specification】

**Fabric type:** Polyester, velvet, flocking, flocking and other series of short velvet.

**Component:** Special silicone oil

### Property:

- Gives textiles softness,slippy and special velvet effect.
- Improve the textiles tear strength and anti-wrinkle ability.
- Have good washing resistance and anti-static property.

### 【Technical Index】

Product name	KR-8505A	KR-8505B
Feature	milky white liquid	milky white liquid
Ph Value	5.0~6.0	5.0~6.0
Velvet sense	★★★★★	★★★★★
Softness	★★★★☆	★★★★☆
smoothness	★★★★☆	★★★★☆
Application	Soft	Elasticity

### 【Usage】

#### ●Padding:

Dosage: 20~50g/L

Temp.: room temperature

Process: one dip, one pad or two dips, two pads

#### ●Dipping:

Dosage: 2~10% (o.w.f)

Temp.: 30°C~40°C

Liquor ratio: 1:10~15

Time: 30mins

### 【Storage & Packing】

●Storage: 6 months in cool and shady place.

●Packing: 120kg plastic drum.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



# Soft & Fluffy Silicone

## Oil KR-8510

### 【Specification】

**Fabric type:** Cotton, polyester and blended fabrics

**Component:** Block silicone

**Property:**

- Impart excellent soft, fluffy, smooth and special hand feeling.
- It has special structure and outstanding stability.
- Excellent compatibility with other auxiliaries.

### 【Technical Index】

Product name	KR-8510	KR-8510D
Appearance	Yellowish or transparent viscous liquid	Yellowish transparent liquid
pH value	6.0~7.0	6.0~7.0
Softness	★★★★★	★★★★★
Fluffy	★★★★☆	★★★★☆
Smoothness	★★★★★	★★★★★
Application	High emulsifying ratio, high stability	Good fluidity

### 【Usage】

● Padding:

Dosage: 20~50g/L      Temp.: room temperature

Process: one dip, one pad or two dips, two pads

● Dipping:

Dosage: 2~10% (o.w.f)      Temp.: 30°C~40°C

Liquor ratio: 1:10~15      Time: 30mins

### 【Storage & Packing】

● Storage: 6 months in cool and shady place.

● Packing: 120kg plastic drum.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.

# Soft & Fluffy Modified Amino Silicone Oil KR-8205

### 【Specification】

**Fabric type:** Cotton, staple cotton, polyester and its blended fabrics

**Component:** Special modified amino silicone oil

**Property:**

- Give fabric an excellent soft, fluffy hand feeling.
- The treated fabric has excellent drape and extinguish feeling.
- Excellent chemical stability.

### 【Technical Index】

Product name	KR-8205	KR-8205D
Appearance	Yellowish or transparent viscous liquid	Yellowish or transparent liquid
pH value	5.0~6.0	5.0~6.0
Softness	★★★★☆	★★★★☆
Fluffy	★★★★★	★★★★★
Application	Adjust different handfeel with different emulsifying ratio.	Emulsion stability

### 【Usage】

● Padding:

Dosage: 20~50g/L (30% solution)      Temp.: room temperature

Process: one dip, one pad or two dips, two pads

● Dipping:

Dosage: 2~5% (o.w.f) (30% solution)      Temp.: 30°C~40°C

Liquor ratio: 1:10~15      Time: 30mins

### 【Storage & Packing】

● Storage: 6 months in cool and shady place.

● Packing: 120kg plastic drum.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



# Soft & Smooth Modified Amino Silicone Oil KR-8202

## 【Specification】

**Fabric type:** Chemical fiber, cotton and viscose and their blended fabrics

**Component:** Special modified amino silicone oil

### Property:

- Excellent soft, smooth hand feeling.
- Super fluffy, drape feeling.
- Stable emulsion.

## 【Technical Index】

Product name	KR-8202	KR-8202D
Appearance	Yellowish or transparent viscous liquid	Yellowish transparent liquid
pH value	5.0~8.0	5.0~6.0
Softness	★★★★☆	★★★★☆
Fluffy	★★★★★	★★★★★
Smooth	★★★★★	★★★★★
Application	Good soft smoothness	Suitable for various fabrics

## 【Usage】

### ● Padding:

Dosage: 20~50g/L Temp.: room temperature

Process: one dip, one pad or two dips, two pads

### ● Dipping:

Dosage: 2~10% (o.w.f) Temp.: 30°C~40°C

Liquor ratio: 1:10~15 Time: 30mins

## 【Storage & Packing】

● Storage: 6 months in cool and shady place.

● Packing: 120kg plastic drum.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.

# Soft & Smooth Block Silicone Oil KR-8509

## 【Specification】

**Fabric type:** Cotton and its blended fabrics

**Component:** Block silicone oil

### Property:

- Give fabric an excellent soft, extinguish and slippery hand feeling.
- Good shear stability and pH stability of emulsion.
- Excellent salt and alkali resistance.

## 【Technical Index】

Product name	KR-8509	KR-8509D
Appearance	Yellowish transparent viscous liquid	Yellowish transparent liquid
pH value	6.0~7.0	6.0~7.0
Softness	★★★★★	★★★★★
Smooth	★★★★☆	★★★★☆
Application	Adjust different handfeel with different emulsifying ratio.	Emulsion stability

## 【Usage】

### ● Padding:

Dosage: 20~50g/L Temp.: room temperature

Process: one dip, one pad or two dips, two pads

### ● Dipping:

Dosage: 2~10% (o.w.f) Temp.: 30°C~40°C

Liquor ratio: 1:10~15 Time: 30mins

## 【Storage & Packing】

● Storage: 6 months in cool and shady place.

● Packing: 120kg plastic drum.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



## Content detail



# Softener Flake Series

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03

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Laundry Softener Flake KR-506 KR-506S	05
Salt-resistant softener flake KR-520	06
Softener KR-516 KR-8958	07



# Nonionic Softener Flake

## 【Specification】

**Fabric type:** Cotton, polyester and its blended fabric

**Component:** Fatty acids and polyol compounds

**Property:**

- Gives fabric better soft fluffy and full hand feeling.
- Excellent low yellowing effect.
- Has hydrophilic and antistatic effect.

## 【Technical Index】

Product name	KR-509	KR-510	KR-512
Feature	Milky white flake	Milky white flake	Milky white flake
Ph value	6.0	6.0	6.0
Softness	★★★★☆	★★★★☆	★★★★☆
Fluffy	★★★★☆☆	★★★★☆☆	★★★★★★
Application	Excellent smoothness	Excellent softness	Excellent fluffy

## 【Usage】

● Padding:

Dosage: 20~30g/L(10% solution) Temp.: 30°C~40°C

Process: one dip, one pad or two dips, two pads

● Dipping:

Dosage: 3~8 % (o.w.f)(10% solution) Temp.: 40°C~50°C

Liquor ratio: 1:10 ~15 Time: 30mins

## 【Storage & Packing】

● Storage: 12 months in cool and shady place.

● Packing: 25kg plastic woven bag.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.

# Eco-Friendly Softener Flake

## 【Specification】

**Fabric type:** Cotton, chemical fiber, acrylic fiber and its blended fabric

**Component:** Fatty acid imidazoline compound

**Property:**

- Gives fabric better soft and fluffy hand feeling.
- AEEA free.
- Low viscosity and foam, very suitable for dyeing factory and washing plant.

## 【Technical Index】

Product name	KR-505	KR-506M
Feature	Light yellow flake	Light yellow flake
Ionicity	Weak cationic	Weak cationic
Softness	★★★★☆	★★★★☆
Application	Apply for washing plant and denim series product.	

## 【Usage】

● Padding:

Dosage: 20~30g/L(10% solution) Temp.: room temperature

Process: one dip, one pad or two dips, two pads

● Dipping:

Dosage: 3~8 % (o.w.f)(10% solution) Temp.: 30°C~40°C

Liquor ratio: 1:10 ~15 Time: 30mins

## 【Storage & Packing】

● Storage: 12 months in cool and shady place.

● Packing: 25kg plastic woven bag.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



# Cold Water Instant Dissolving Softener Flake

## 【Specification】

**Fabric type:** Cotton, polyester and its blended fabric

**Component:** Fatty acid imidazoline compound

**Property:**

- Gives fabric better soft and smooth hand feeling.
- Excellent softness and smoothness for cotton and chemical fiber products finishing treatment.
- Compound with silicone oil to produce soft, smooth and elastic hand feeling.

## 【Technical Index】

Product name	KR-507	KR-508
Feature	Light yellow flake	Light yellow flake
Ionicity	Cationic	Cationic
Softness	★★★★★	★★★★☆
Fluffy	★★★★☆☆	★★★★☆☆
Application	3 minutes swelling, good hand feeling	3 minutes swelling, comprehensive hand feeling

## 【Usage】

### ●Padding:

Dosage: 20~30g/L(10% solution) Temp.: room temperature

Process: one dip, one pad or two dips, two pads

### ●Dipping:

Dosage: 3~8 %( o.w.f)(10% solution) Temp.: 30°C~40°C

Liquor ratio: 1:10 ~15

Time: 30mins

## 【Storage & Packing】

●Storage: 12 months in cool and shady place.

●Packing: 25kg plastic woven bag.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.

# Hard Water Soluble & Highly Stable Softener Flake

## 【Specification】

**Fabric type:** Cotton, polyester and blended fabric

**Component:** Fatty acid imidazoline compound

**Property:**

- Provide fiber and textile excellent soft and smooth hand feeling.
- Cotton and chemical fiber can get outstanding soft and slippery feeling.
- Can be used for lubricating yarn and make sanding, napping smoothly.

## 【Technical Index】

Product name	KR-517	KR-519
Feature	light yellow flake	light yellow flake
Ionicity	cationic	nonionic
Softness	★★★★★	★★★★☆
Hard Water Solubility	★★★★★	★★★★★
Application	Soluble 1500ppm, excellent hand feeling	Soluble 1500ppm, low yellowing

## 【Usage】

### ●Padding:

Dosage: 20~30g/L(10% solution), Temp.: room temperature

Process: one dip, one pad or two dips, two pads

### ●Dipping:

Dosage: 3~8%(o.w.f)(10% solution) Temp.: 30°C~40°C

Liquor ratio: 1:10~15

Time: 30mins

## 【Storage & Packing】

● Storage: 12 months in cool and shady place.

● Packing: 25kg plastic woven bag.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



# Laundry Softener Flake

## 【Specification】

**Fabric type:** Denim, cotton fabric

**Component:** Fatty acid imidazoline compound

### Property:

- Provide excellent soft hand feeling.
- Impart smooth and full hand feeling to fabrics.
- Less influence on fabric whiteness and color shade.

## 【Technical Index】

Product name	KR-506	KR-506S
Feature	light yellow flake	light yellow flake
Ionicity	weak cationic	weak cationic
Softness	★★★★☆	★★★★★
Cost effective	★★★★★	★★★★☆
Application	For denim washing and soft finishing	For denim washing

## 【Usage】

### ●Padding:

Dosage: 20~30g/L(10% solution), Temp.: room temperature

Process: one dip, one pad or two dips, two pads

### ●Dipping:

Dosage: 3~8%(o.w.f)(10% solution) Temp.: 40°C~50°C

Liquor ratio: 1:10~15 Time: 30mins

## 【Storage & Packing】

● Storage: 12 months in cool and shady place.

● Packing: 25kg plastic woven bag.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.

# Salt-Resistance softener Flake

## 【Specification】

**Fabric type:** Same bath dyed fabric

**Component:** Multiple polymeric compounds

### Property:

- Provide fabric better soft smooth and full hand feeling..
- Excellent salt tolerance, alkali resistance, low yellowing property
- Less influence on fabric whiteness and color shade.

## 【Technical Index】

Product name	KR-520
Feature	Light yellow flake
Ionicity	nonionic
Softness	★★★★☆
Cost effective	★★★★★
Application	fabrics with high salt tolerance

## 【Usage】

### ●Padding:

Dosage: 20~30g/L(10% solution), Temp.: room temperature

Process: one dip, one pad or two dips, two pads

### ●Dipping:

Dosage: 3~8%(o.w.f)(10% solution) Temp.: 40°C~50°C

Liquor ratio: 1:10~15 Time: 30mins

## 【Storage & Packing】

● Storage: 12 months in cool and shady place.

● Packing: 25kg plastic woven bag.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



# Softener

## 【Specification】

**Fabric type:** Cotton, woolen, blended, towel, denim

**Component:** Polymers of fatty acids and polyols

**Property:**

- Excellent soft fluffy and full hand feeling..
- Excellent fluffy and draping property.
- Low yellowing, soft treatment instead of soft flake.

## 【Technical Index】

Product name	KR-516	KR-8958
Feature	light yellow liquid	light yellow liquid
Ph value	5.0-7.0	5.0-7.0
Ionicity	nonionic	cationic
Hydrophility	★★★★★	★★★☆☆
Softness	★★★☆☆	★★★★★
Application	For towel, denim washing plant	For T/C, cotton dyeing plant

## 【Usage】

### ●Padding:

Dosage: 20~50g/L(10% solution), Temp.: 30°C~40°C

Process: one dip, one pad or two dips, two pads

### ●Dipping:

Dosage: 3~8%(o.w.f)(10% solution) Temp.: 30°C~40°C

Liquor ratio: 1:10~15 Time: 30mins

## 【Storage & Packing】

● Storage: 6 months in cool and shady place.

● Packing: 120kg plastic drum.

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



## Content detail



# Thickener, Binder Series

科润生物

04

Product Name	Page
Disperse Printing Thickener KR-712 KR - 709H KR - 709	01
Reactive Printing Thickener KR-708 KR-708-5	02
Reactive Printing Powder KR-726	03
Pigment Printing Thickener KR-710E KR-711B KR-722 KR-722-5	04
Binder For Pigment Printing KR-1101 KR-4101 KR-5145 KR-6101	05



# Disperse Printing Thickener

## 【Application】

In disperse printing, this thickener can substitute sodium alginate to make printing paste which can obviously improve brightness, color value and clear shape. It can also reduce the cost comparing with sodium alginate.

## 【Technical Index】

Product name	KR-712	KR-709H	KR-709
Appearance	milky white viscous emulsion	milky white viscous emulsion	milky white viscous emulsion
Lonicity	anionic	anionic	anionic
Ph Value (1% solution)	6.0~7.0	6.0~7.0	6.0~7.0
Major Composition	acrylic acid multi-component copolymer	acrylic acid multi-component copolymer	acrylic acid multi-component copolymer
Suggestion Dosage	2.5-3%	5-5.5%	5-5.5%

## 【Property】

Can completely substitute gums and sodium alginate.  
It can provide better thickening effect, good stability, clear shape and good penetration performance.  
Easily wash off, soft handle.  
Convenient use at any time, rapid in preparing paste.

# Pigment Printing Thickener

## 【Application】

This product is a high concentration product which adopts some imported raw materials, grafting brightening and salt-resistant group on the basis of the original thickener, applicable to pigment printing on all kinds of fabrics with clear shape, high color value, good thickening performance and good salt-resistance.

Product name	KR-710E	KR-711B	KR-722-5	KR-722
Appearance	light yellow viscous emulsion	creamy-white viscous emulsion	milky white viscous emulsion	light yellow viscous emulsion
Lonicity	anionic	anionic	anionic	anionic
Ph Value (1% solution)	6.0~7.0	6.0~7.0	6.0~7.0	6.0~7.0
Major Composition	acrylic acid multi-component copolymer	acrylic acid multi-component copolymer	acrylic acid multi-component copolymer	acrylic acid multi-component copolymer
Suggestion Dosage	2.5-3%	1.5	1.4	1.3

## 【Property】

Good water holding property, electrolyte resistance, clear shape and non flashing.  
Can get high color value, bright and full color.  
Soft handle  
High paste rate and rapidly in preparing paste.  
Very convenient to use, can directly add to pigment.

## 【Usage】

The product has excellent hydration performance, rapid thickening, convenient in paste mixing. It can be used by preparing the stock paste or can make printing paste by adding thickener directly to pigment.



# Reactive Printing Powder KR-726

## 【Application】

Reactive printing paste have good performance, low cost, high solubility and color yield. Used in printing process of pure cotton and various fabrics, applicable in round screen printing and flat screen printing.

## 【Technical Index】

- Appearance: beige or yellowish brown powder
- Ionicity: anionic
- pH value (0.5% solution): 7.0~8.0
- Solubility: soluble in water

## 【Property and Usage】

- Property same with Sodium alginate.
- Good thickening ability and acid and alkali resistance, excellent stability.
- Can improve the dye color yield, better than sodium alginate yield, Bright color, good penetrability, low cost
- Can use only if mix with Sodium alginate., could reduce the cost and increase color depth and brightness greatly.

## 【Paste Process】

Added 480L soft water in the container, begin stir, then added 20kg Printing powder, stir slowly for 50-60 minutes until to Paste evenly. When fully expanded, ready for use.

- Same procedure as sodium alginate.

# Reactive Printing Thickener

## 【Application】

This product is used for thickening reactive printing paste; it can be used in conjunction with sodium alginate, reactive dye, sodium bicarbonate, resist salt and sodium hexametaphosphate with very good anti-electrolyte performance and thickening effect.

## 【Technical Index】

Product name	KR-708	KR-708 -5
Appearance	white viscous emulsion	white viscous emulsion
Ionicity	anionic	anionic
Ph Value (1% solution)	6.0~7.0	6.0~7.0
Major Composition	acrylic acid multi-component copolymer	acrylic acid multi-component copolymer
Suggestion Dosage	4-4.5 %	4-4.5%

## 【Property】

- High color value and bright color, clear shape and good comprehensive properties, such as permeability leveling property, etc.
- Rapid in preparing paste, convenient to use and paste remains steady.
- High rate of destarch, soft handle.
- Excellent net penetration and leveling, flow performance.



# Binder For Pigment printing

## 【Specification】

New generation of environmentally friendly product, high printing color yield rate, and soft hand feeling, bright color, soaping, dry/wet rubbing fastness is better than dye printing effect, clear outline. Stable mechanical and chemical properties.

Product name	KR-1101	KR-3101	KR-4101	KR-5145	KR-6101
Appearance	milky white to light blue emulsion	milky white to light blue emulsion	milky white emulsion	milky white to light blue emulsion	milky white emulsion
Lonicity	anionic	anionic	anionic	anionic	anionic
Solid content	40%	40%	40%	45%	40%
Ph Value (1% solution)	6.0~7.0	6.0~7.0	6.0~7.0	6.0~7.0	6.0~7.0
Major Advantages	Good color fastness , Low Formaldehyde ≤50ppm	Formaldehyde Free	Formaldehyde Free、 Imitation reactive 、 Softness hand feeling	Specially good on Polyester printing	Discharge printing
Suggestion Dosage	10%-30%	10%-30%	10%-30%	10%-30%	20%-30%

## 【Attention】

● After make the paste could added crosslinking agents could improve the color fastness, will effect the hand feeling, pls take care the valid time after added crosslinking agents.

● High temperture will increase the color fastness , but will affect a little hand feeling.

## 【Storage & Packing】

1. 50kg or 125kg plastic drum or according customer request.
2. Store in cool, shady and ventilated place, in 5-35°C room temperture .



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## Content detail

# Special Functional Agent Series

科润生物

05

Product Name	Page
Antistatic Agent KR-672D	01
Oil Surface Brightener KR-8967	02
Anion-resistant Softener KR-8963	03
Skin Feel Agent KR-15	04
Velvet Finishing Agent KR-8505B	05



## Antistatic Agent KR-672D

## 【Technical Index】

This product is widely used the antistatic treatment of various fibers such as acrylic fibers, nylon fibers and polyester to make fibers soft and smooth, with good resistance to friction, high temperature, acid and alkali. After the treatment, fibers will have excellent hygroscopicity, pilling proofing properties. It can be applied to the treatment of chemical fiber spinning.

## 【Specification】

- Composition: compound of multiple emulsions
- Appearance: Semi-transparent emulsion
- PH Value:  $6 \pm 1$
- Solid content:  $12 \pm 1\%$
- Ionicity: nonionic

## 【Usage】

- Usage: Can be applied to padding, dipping or spraying
- Recommend Dosage: 10—30g/L
- Dosage can be adjusted per specific technology

## 【Storage】

- Storage: at 5°C to 35°C.
- Shelf life: 6 months in cool and shady place

## 【Basic Summary】

Fabric type: pigment printing products

## Performance and characteristics:

- Gives excellent brightness and oiliness to calendered and embossed products
- Improve the thickness and finess of the fabric

## 【Specification】

Name	KR-8967
Appearance	Milk White Liquid
Ionicity	Super weak cationic
Softness	★★★★★
Compatibility	★★★★★
Application	To be used in calendering and embossing products to improve lightness and oiliness

## 【Usage】

- Padding methods: 30~60g/L Temperature: 30~40°C
- Technology: one dip, one pad or two dips, two pads
- Dosage of barrel at stenter machine: 3-6KG/500L

## 【Storage】

- Shelf life: 6 months in cool and shady place
- Package: 125kg drums

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



# Anion-resistant Softener KR-8963

## 【Basic Summary】

Fabric type: pigment printing products

### Performance and characteristics:

- Gives fabric a good soft, smooth, plent feel
- Excellence stability and compatibility
- Can be mixed with any ionic product

## 【Specification】

Name	KR-8963
Appearance	Light yellow transparent liquid
Ionicity	Amphoteric
Softness	★★★★★
Compatibility	★★★★★
Application	Can be used with binder to improve the hand touch of pigment printing

## 【Dosage】

- Padding methods: 20~30g/L Temp: Room Temperature  
Technology: one dip, one pad or two dips, two pads
- Dipping Methods: Dosage: 3~8% (o.w.f) (10% Solution)  
Temp: 40~50°C Liquor ratio: 1: 10~15 time: 30mins

## 【Storage and package】

- Shelf life: 6 months in cool and shady place。
- Package: 125kg drums

Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.

# Skin Feel Agent KR-15

## 【Basic Summary】

Fabric type : Fleece, Wax-like Fabric

### Performance and characteristics:

- Gives the fabric a fluffy, thick, skin-friendly feel
- Improves the thickness and fineness of the fabric

## 【Specification】

Name	KR-15
Appearance	Milk yellow transparent liquid
Ionicity	Super weak cationic
Softness	★★★★★
Compatibility	★★★★★
Application	Formulated and to be used at Fleece and Wax-like fabric to adjust the hand feel

## 【Dosage】

- Padding methods: 30~60g/L Temperatue: 30~40°C  
Technology: one dip, one pad or two dips, two pads  
Dipping Methods: Dosage:2~10% (o.w.f) Temp: 30~40°C  
Liquor ratio: 1: 10~15 Time: 30mins

## 【Storage and package】

- Shelf life: 6 months in cool and shady place。
- Package: 125kg drums。
- Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.



# Velvet Finishing Agent

## KR-8505B

### 【Basic Summary】

Fabric type: Polyester, German velvet, flocking, brushed and other series of short velvet

Type of Silicone: Special silicone oil

### Performance and characteristics:

- Gives the fabric soft, smooth, and special velvet effect.
- Improves the crease resistance and tear strength.
- Strong attributes of washing resistance with anti-static function

### 【Specification】

Name	KR-8505A	KR-8505B
Appearance	Milk White Liquid	Milk White Liquid
Ph Value	5.0-6.0	5.0-6.0
Velvet feel	★★★★★	★★★★★
Softness	★★★★☆	★★★★☆
Smooth	★★★★☆	★★★★☆
Application	Softness	Elastic

### 【Dosage】

- Padding methods: 20~50g/L Temp: Room Temperature
- Technology: one dip, one pad or two dips, two pads
- Dipping Methods: 2~10% (o.w.f) Temp: 30~40°C
- Liquor ratio: 1: 10~15 time: 30mins

### 【Storage and package】

- Shelf life: 6 months in cool and shady place
- Package: 125kg drums
- Intermiscibility with other auxiliaries and process of the product, please test first and adjust according to the result.