



Knit Series Auxiliaries Products

---WUXI YICHENG CHEMICAL CO., LTD



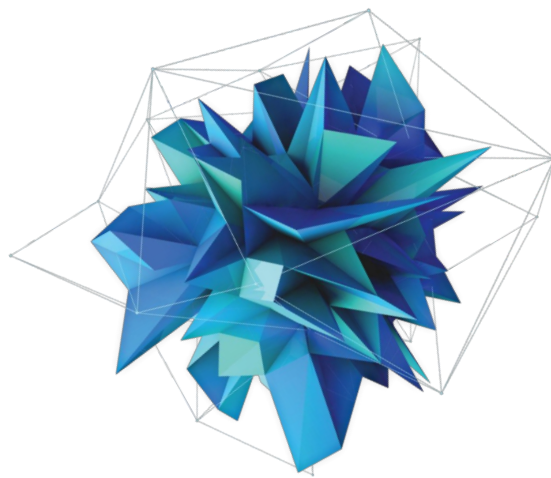


Product Information Pretreatment Auxiliary

01 Multifunctional Scouring Agent
MCH-197

02 Blue fairy
MCH-117B

03 Wetting Agent
MCH-1688



04 Chelating Dispersing Agent
MCH-333

05 Oxidation Bleaching Stabilizer
MCH-SH

06 High Efficiency De-Oiling
Agent
MCH-137B



01 Multifunctional Scouring Agent MCH-197

Function

MCH-197 is a 5 in 1 multifunctional scouring agent for cotton fiber textile pretreatment process. By only one product, it can replace the traditional agents of scouring agent(detergent), oxygen stabilizer, chelating agent, penetrant and caustic soda. It has the effects of dispersion, scouring, washing, cleaning and infiltration. Its strong detergency that can effectively remove the slurry and impurities in the fiber.

Technical Data

Appearance: white crystal power

pH value: 11 (1% water solution)

Ionicity: nonionic

Solubility: easy soluble in warm water

Package: Packed in 25kg woven bags or 50kg plastic drums

Shelf life: store in a cool, dry place with a shelf life of half a year

Properties

- Good stabilizing power to H₂O₂ for discontinuous processes.
- Excellent capillary effect and wetting performance.
- Non caustic soda process, can protect the fabric strength in the best condition.
- Excellent emulsifying effect to cotton waxes and greases.
- Outstanding sequestering and dispersing power to Ca²⁺, Mg²⁺ and Fe²⁺.
- Excellent solubility and single agent for scouring process can get the most even treated fabric, which ensure a good levelling effect in dyeing process.
- If choose H₂O₂- resistance direct dyes, scouring-bleaching-dyeing process can process in one bath.



01 Multifunctional Scouring Agent MCH-197

Application

Dissolve MCH-197 completely in water at room temperature. Then dilute it in dosing tank, add into H₂O₂ to prepare the working liquor.

1. For cotton knitted fabric:

Scouring agent MCH-197	2.0~3.0g/L
H ₂ O ₂ (35%)	2.0~5.0g/L (H ₂ O ₂ : 27.5%, 4-8g/L)
Bath ratio	1:10~1:15
Temperature	98°C ~100°C
Time of treatment	45~60minutes

After process: Hot water washing, cold water washing, neutralization.

2. For cotton hank yarn and cotton cheese:

Scouring agent MCH-197	1.0~2.0g/L
H ₂ O ₂ (35%)	3.0~5.0g/L (H ₂ O ₂ : 50%, 2-3g/L)
Bath ratio	1:8~1:10
Temperature	95°C~98°C
Time of treatment	45~60minutes



02 Blue fairy MCH-117B

Introduction

MCH-117B is a new oxygen bleaching additive developed by the company for many years, which combines refining agents, bleaching regulators, penetration agents and chelating agents in one, and is specially used for the discontinuous alkaline peroxygenation process of pure cotton and cotton-blended fabrics. Based on more advanced bleaching technology achievements, MCH-117B makes the bleaching process more efficient, fast and economical compared to traditional processes.

Technical Data

Appearance: Blue transparent

Ingredients:

specific gravity: 1.24g/cm³ (20°C)

Ionicity: anion or nonionic

Solubility: Miscible in any proportion with water

pH: 6-6.5

Compatibility: Compatible well with osmotic agents, refining agents, refining enzymes, hydrogen peroxide and fluorescent brighteners.

Properties

- Excellent oxygen utilization rate, significantly higher than the oxygen drift stabilizer in the traditional process.
- Higher whiteness.
- No need for a lot of water rinsing after rinsing, thus saving water and shortening time
- Using acids after rinsing requires only a slight neutralization reaction. If you do active staining, you only need to simply add PH value adjusters and remove residual oxygen
- Greatly shorten the time of the treatment process, but also increase the capacity of the existing equipment
- Reduce the wastewater load and wastewater volume
- Biodegradable, no phosphorus or APEO



02 Blue fairy MCH-117B

Knitted fabric test examples:

	1	2	3
MCH-117B	98°C × 15min 1:10 0.8%-1.0%	80°C × 45min 1:10 2%-2.5%	110°C × 15min 1:10 0.8%-1.0%
Caustic soda (100%)	1.0%	2%	1.0%
H2O2 (50%)	6%	8.8%-11%	6%
Whiteness (4layers)	80	79.8	83.2
Gross effect (5min/30min)	8cm/14.5cm	8.5cm/15.6cm	9cm/15.7cm

Tube yarn test example:

	1	2	3
MCH-117B	98°C × 30min 1:10 0.8%-1.0%	80°C × 30min 1:10 1.0%-1.5%	110°C × 15min 1:10 0.8%-1.0%
Caustic soda (100%)	1.0%	1%	1.0%
H2O2 (50%)	6%	6%	6%
Whiteness	82	78.2	83.2
Gross effect (30min)	15.6cm	14.3cm	16cm

In the application of the pretreatment of the drum yarn, the low temperature bleaching is uniform inside and outside. Excellent whiteness and high grossness and enhances the strength of the yarn.

Note: If the bath ratio is very low, 0.5-1 ml/L of lubricant can be added

Packing & Storage

50KG or 125kg plastic drum. Sealed as for ventilation and light protection at room temperature, valid for 12 months. Storage: Stabilize between 10 °C and 40 °C, avoid freezing. Temperatures above 40°C or below freezing may result in delamination or sedimentation. Shake or stir well before use, it will not affect the effect of use.

The above information is based on years of research and application experience of our company, which is drawn from our cautious experiments to the greatest extent and accepted as true. However, since your equipments, application conditions, and result requirements, etc. are beyond our control, we recommend you to conduct experiments first after choosing our products in order to ensure the results and security. On account of the diversity of application conditions, sometimes your experimental results and ours don't completely fit together, for which our company doesn't assure any responsibility. The introduction is only for your reference.



03 Wetting Agent MCH-1688

Function

used in pre-treatment of cotton, linen and blended fabrics and yarns.

Technical Data

Appearance: Yellowish transparent viscous liquid

pH: 5.5-7.0

Ionicity: Nonionic/anionic

Solubility: Easy soluble in water

Package: 125 kg plastic bucket

Shelf life: Stored in the indoor shade, avoid direct sunlight.

Please do not make cold reactor multi-function auxiliary MCH-1688 in the air long-term exposure, after the use of timely seal.

Properties

- Excellent emulsifying effect to CO waxes and greases
- Good wetting properties and permeability
- Save water, electricity, steam and labor
- Good whiteness, capillary effect (14cm/30min), improve dyeing quality, save dye
- Can carry on the processing technology of scouring and dyeing/scouring and bleaching plus white one bath method

A.Yarn

MCH-1688	2.0-3.0g/L
H ₂ O ₂ (50%)	5.0-8.0g/L
NaOH	3.0-8.0g/L
Bath ratio	1:8-1:15
Bath temperature	95-100°C
Time of treatment	minutes

Application

MCH-1688 can be used in the pretreatment of cotton, hemp yarn, dyed and bleached yarn by one-bath process, which can effectively improve the yarn weight loss, color difference between inner and outer layers, yellow spot and color difference caused by the lack of scouring in the link of the winch yarn, etc. Under the condition that the fiber strength is not damaged, the reducing rate can be reduced effectively, and the fluffy feel and uniform wool effect of yarn can be obtained.



03 Wetting Agent MCH-1688

B. scouring and bleaching of cotton knitted fabrics

MCH-1688	2.0-3.0g/L
H ₂ O ₂ (50%)	6.0-8.0g/L
NaOH	3.0-8.0g/L
Bath ratio	1:10-1:15
Bath temperature	95-100°C
Time of treatment	45-60minutes

Note: the above process parameters can be adjusted according to different fabrics and different requirements.

Application

MCH-1688 can effectively improve the fiber weight loss, dyeing color, cylinder difference, stripe mark, fold and other phenomena of knitted fabric during routine scouring, so that the fabric can obtain fluffy handle, balanced and consistent wetting effects, and improve the product quality in all directions.

Application

MCH-1688 can decompose the fiber co-organism in hemp fiber accurately, and it can effectively improve the phenomenon of hand feel hard, prickle feeling and strength damaged, dyeing difficulty and dyeing unevenness, etc, which are produced by conventional technology due to the extensive use of caustic soda scouring, etc. Consistent scouring provides an ideal substrate for bleaching and dyeing and gives full expression to the natural style of hemp fibers.

C. Hemp and hemp blended fabrics

MCH-1688	3.0-5.0g/L
H ₂ O ₂ (50%)	8.0-10.0g/L
NaOH	2.0-5.0g/L
Bath ratio	1:10-1:15
Bath temperature	95-100°C
Time of treatment	45-60minutes



03 Wetting Agent MCH-1688

Application

MCH-1688 can effectively improve the rough handle, uneven dyeing, ruffled appearance, elimination of edge and medium color difference, even and thorough dyeing and full and smooth wear ability of the fabric caused by unclean desizing, poor scouring and unevenness of wool effect.

D.High density fabric

MCH-1688	5.0-15.0g/L
H ₂ O ₂ (50%)	25.0-40.0g/L
NaOH	10.0-25.0g/L
Bath ratio	1:10-1:15
Bath temperature	100°C
Time of treatment	45-60minutes

Note: the amount of the above process can be adjusted according to the conditions of the plant equipment and the production process.

1) Cold-batch method

Room temperature impregnated rolling (about 80% on liquid) film seal, room temperature stacked 16-24 hours
 ——> hot water washing ——> cold water washing

2) cold-batch short steam

The rubber film is sealed by immersion rolling at room temperature (about 80%), stowed at room temperature for 8-12 hours, steaming (105 °C × 10-20min), ——> hot water washing ——> cold water washing

E. It can be divided into two methods for cotton woven cold-batch treatment process.

Prescription:	
MCH-1688	10-20g/L
NaOH	30-50g/L
Hydrogen peroxide (100%)	20-50g/L



03 Wetting Agent MCH-1688

Application example:

Experiment process:

one dip and one rolling (pressure: 1 kg, rolling efficiency 80%) cold batch (room temperature batch 24 h) → hot water washing acid washing → cold water washing → drying (80 °C)

Useage Agent	①	②	③
Cold-batch Agent 1	15g/L	/	/
Cold-batch Agent2	/	15g/L	/
MCH-1688	/	/	15g/L
NaOH	40g/L		
(100%)H ₂ O ₂	20g/L		

Note: please refer to additional product safety data for accident and fire handling, environmental protection, toxicity, transportation, storage, etc.



04 Chelating Dispersing Agent

Product features

MCH-333 is synthesized by advance technology, which is a copolymer of muti-functional molecular groups. It is a high efficient organic Chelating compound. It can soften the water quality, and has strong chelating reaction with Ca^{2+} Mg^{2+} Fe^{3+} , etc. The product can disperse the floating dross to avoid generating sediment. It also can dissolve the silicon, calcium furs and low-polymer in the reaction containers, which to prevent the fibers from re-stained by metallic salts. The product not only can enhance the whiteness of bleaching, dyeing and printing fabric, protect the fabric white background from re-staining.

Technical Data

Appearance: White to light yellow liquid

pH: $7.0 \pm 0.5(1\%)$

Ionicity: Anionic

Solubility: Soluble in water

Package: 50kg drum

Shelf life: Store in cool, ventilated and dry place. Shelf life 6 months.

MCH-333

Properties

- High concentration, soften the water quality, and has strong chelating reaction with Ca^{2+} 、 Mg^{2+} 、 Fe^{3+} , etc.
- Excellent complexing ability, dispersing ability, and scale inhibition and scalping function.
- Does not affect the shade and fabric whiteness.
- Enhance the whiteness of bleaching, dyeing and printing fabric, protect the fabric white background from re-staining.

Chemical Characteristic

a copolymer of muti-functional molecular groups.

Application

[Preparation of MCH-333 before use] For example: $25 \pm 1\%$ Add 750kg deionized water into enamel reaction container, then add 250kg MCH-333 and stir evenly. (pH=3-4) If need to adjust PH value, add 50% NaOH solution slowly, stay 15min for neutralization reaction (Temp. $< 60^{\circ}\text{C}$) to the required pH. (Note: PH<6) Suggestion: 1. Can make applicable Chelating disperse agent at any concentration. The recommending concentration $< 30\%$ (Concentration less than 30% can already fully meet the dyeing factories application) 2. Should use deionized water to ensure the Chelating disperse effect. 3. Use ionic membrane to prepare 50% NaOH solution. 4. Be slow to add NaOH in neutralization reaction (temp. $< 60^{\circ}\text{C}$ = to avoid separate out).



05 Oxidation Bleaching Stabilizer MCH-SH

Function

Ecology H₂O₂ stabilizer using for the bleaching process.
Suitable for the cotton, rayon, T/C fabric oxygen bleaching process.

Chemical Characteristic

Ecology H₂O₂ stabilizer agent

Technical Data

Appearance: Colorless or light yellow transparent liquid
pH: 5.5-6.0
Ionicity: Anionic
Solubility: Easy soluble in water
Package: 125kg or 200kg plastic drum
Shelf life: Closed storage, storage period of 6 months at room temperature.

Properties

- Good alkali and high temperature resistance.
- Hydrogen peroxide bleaching for good stabilizing effect.
- High chelating ability to iron, alkaline earth salts and silicates.
- Less damage on the fiber, basically does not affect the strength of fabric.
- Environment friendly product, do not contain APEO.



06 Neutralizing Agent AC-150E

Function

It has good performance and has no damage for pre-treatment process of removing oil stains on silk and wool fabrics which are not alkali resistant.

Chemical Characteristic
pretreatment de-oiling agent auxiliary

Technical Data

Appearance: Colorless liquid

pH: approx.8.5

Ionicity: Nonionic/anionic

Solubility: Easy soluble in water

Package: 125 kg plastic bucket

Shelf life: Closed storage, storage period of 6 months at room temperature.

Properties

- Dispersing, emulsifying, wetting, good permeability, low foam and strong detergency.

- In the near neutral and alkaline bath, it not only has special effects on removing heavy oil scale, but also has the effect of desizing.



06 High Efficiency De-Oiling Agent MCH-137B

Application

1. Polyester and its blended fabrics are bathed and dyed

The general process recipe is:

MCH-137B	1-3g/l
High temperature levelling agent MCH-315	0.7 -1.0g/l
Glacial aceticacid	0.4 -0.6ml/l
Dye	Xg
Bath ratio	1:10 -12
Bath temperature	Warm up to 130°C



Application

2.Fabric degreasing treatment process

2.1 The general treatment process for silk or wool fabrics that are heavy and resistant to heavy alkali is:

MCH-137B	1-3g/l
Soda ash	0-3 g/l
Bath ratio	1:10 - 30
pH	8-9
Bath temperature	95-98°C
Time of treatment	20 - 40 minutes

2.2 Cotton fabric degreasing process

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

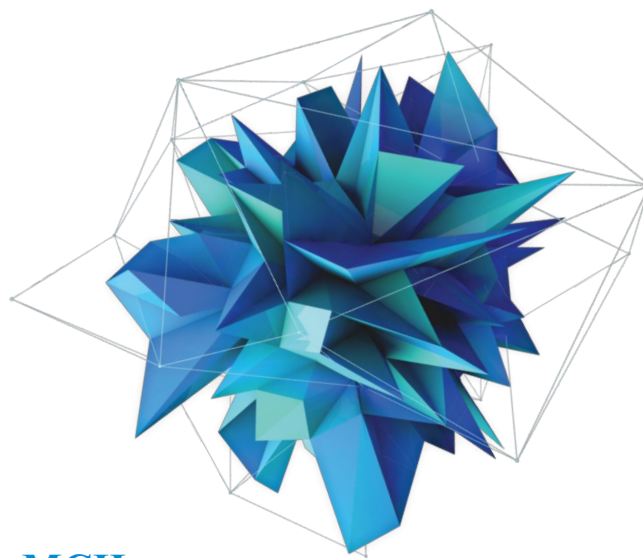
MCH-137B	1-3g/l
Tablets	0-3 g/l
Bath ratio	1:10 - 20
Bath temperature	95-98°C
Time of treatment	20 - 40 minutes



Product Information Dyeing Auxiliary

01 Cotton Levelling Agent
MCH-317

02 Polyester High Temperature
Leveling Agent MCH-315



03 Soda Ash Substitute MCH-
353



01 Cotton Levelling Agent MCH-317

Introduction

Reasons of researching and developing cotton levelling agent MCH-317 are according to the 100% cotton yarn and their blended yarn or loose cotton, etc after alkali treatment in the pre-treatment that may led to an increased density because of the contraction of fiber, which would affect the dyeing seriously. This product is suitable for cheese dyeing process of reactive dyes. It has good glauber's salt-resistance property, besides give excellent leveling, penetration effects, it also can effectively improve the density problem when do cheese dyeing.

Specification

Appearance: Gray brown viscous liquid

Ionicity: anion

PH value: 8 ± 1 (1% aqueous solution)

Solubility: easily soluble in cold or warm water

Composition: special surfactants and high molecular constituent

Product features

1. Excellent in glauber's salt-resistance; has superior leveling, penetration effects to reactive dyes.
2. Suitable for kinds of temperature zone; PH value application range is very wide; won't adhesive or intake to fibers, won't produce agglomeration or precipitation with dyes.
3. Increase the smooth effect between fibers; effectively improve the adverse effect which caused by density contraction problem of fibers; improve the efficient of combing cotton and spinning after dyeing of loose cotton.

Usage

Vary according to fiber types, general dosage of levelling agent MCH-317 : 0.5~1.0 g/l.

Packing

125 kg or 50 kg per plastic drum

Storage

Sealed store in a cool ventilated dry place, normally stored more than 6 months.

The above information is based on years of research and application experience of our company, which is drawn from our cautious experiments to the greatest extent and accepted as true. However, since your equipments, application conditions, and result requirements, etc. are beyond our control, we recommend you to conduct experiments first after choosing our products in order to ensure the results and security. On account of the diversity of application conditions, sometimes your experimental results and ours don't completely fit together, for which our company doesn't assure any responsibility.



02 Polyester High Temperature Leveling Agent MCH-315

Introduction

The product is a dispersive retarding agent, used in the dyeing process of polyester fabric with dispersive dye.

Product features

1. When the dispersive dye is dyeing the polyester, leveling agent will form a layer of uniform film on fiber surface; so can reduce dye up-take and dyeing rate; achieve leveling effect.
2. Dispersion, stability performance is good under the high temperature, suitable for polyester fiber 140 high temperature high pressure dyeing.
3. Do not have influence on the additives, carrier, softening agent, dyeing auxiliaries etc.
4. Biodegradable; does not contain harmful chemicals.
5. Easily soluble in hot water, low-foaming, suitable for jet dyeing machine.
6. Have the function of lubrication, reduce production crease.

Specification

Appearance: yellow viscous liquid

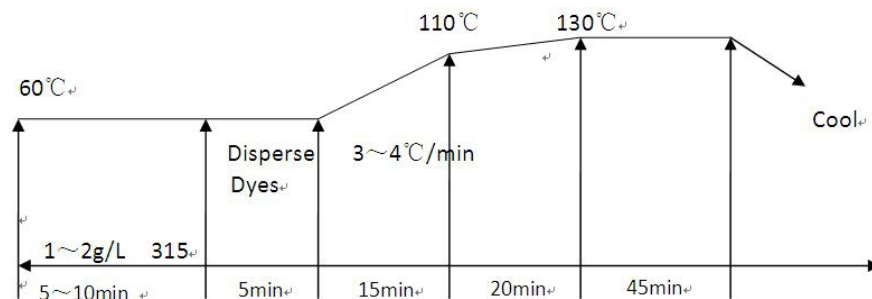
Ionicity: non-ion or anion

PH value: 7~8

Composition: organic lipid compound

Usage

Leveling Agent MCH-315 can ease the dyeing rate of the dispersive dye in the dye bath which dyeing rapidly. And it has the function of dispersion and migration; make the fabric color more uniform after dyeing.



Notes

In spite of MCH-315 has certain function of lubrication, when dyeing, lubricant may have to add.

Packing

100 kg or 50 kg per plastic barrel

The above information is based on years of research and application experience of our company, which is drawn from our cautious experiments to the greatest extent and accepted as true. However, since our equipments, application conditions, and result requirements, etc. are beyond our control, we recommend you to conduct experiments first after choosing our products in order to ensure the results and security. On account of the diversity of application conditions, sometimes your experimental results and ours don't completely fit together, for which our company doesn't assure any responsibility. The introduction is only for your reference.

03 Soda Ash Substitute MCH-353

Function

Specially used to replace soda ash in fabric dyeing process.

Properties

- Form-Tech dustless formulation, only 1/6 of soda ash.
- Good pH buffering effect.
- High fixation rate.
- Excellent dye reproducibility.
- The fixing bath has a small viscosity.
- Residual alkali is easy to wash off.

Chemical Characteristic

Compound alkali

Technical Data

Appearance: White micro granules

pH: 11-12 (1% solution)

Ionicity: Cationic

Solubility: Easy soluble in water

Package: 25kg per dag

Shelf life: Closed storage, if proper storage in the sealed original container at 0~40°C, the storage period at least for 6 months.

Application

Yarn anhydrous sodium sulfate (salt) / alkali Substitute dosage recommended sheet

Dye concentration	General cotton, yarn; Acrylic/cotton, cotton/nylon;Light silk/cotton	100% viscoseLight silk / nylon	Holding Time
	ASS / SA	ASS / SA	
0.0~0.1%	20 / 0.5	20 / 0.3	45min
0.1~0.3%	30 / 1.0	20 / 0.5	
0.3~0.5%	40 / 1.2	30 / 0.8	
0.5~1.5%	50 / 1.4	40 / 1.0	60min
1.5~2.5%	60 / 1.6	50 / 1.2	
2.5~4.0%	70 / 1.8	60 / 1.4	
4.0~6.0%	80 / 2.0	70 / 1.6	90min
Above 6.0%	100 / 2.5	70 / 2.0	

Note: ASS represent anhydrous sodium sulfate (salt); SA represent alkali.

Notes

1. Method of use for reference only, the user can adjust according to the actual situation.
2. Dosage of this product is low, please note the weighing accuracy.
3. This product have buffer property, dyeing can according to need, prolonging the holding time properly, can get better effect.
4. This product is a kind of compound alkali, safety first when using, if contact with eyes or skin, rinse immediately with plenty of water, and make the appropriate medical treatment.



Product Information Finishing Auxiliary

01 Ultra-Efficiency Anti-Staining
Soaping Agent MCH-3262

02 Neutralizing Agent
AC-150E

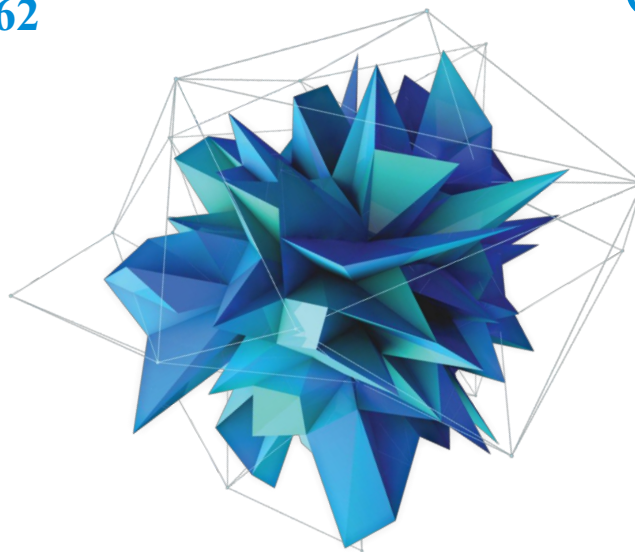
03 Dye Fixing Agent
DAH

04 Wet Rubbing Fastness Improve Agent
MCH-305

05 Soft Finishing Agent
MCH-917

06 Silicone Oil
MCH-919

07 Softener Flake
MCH-0030



01 Ultra-Efficiency Anti-Staining Soaping Agent MCH-3262

Function

Highly effective soaping agent possesses higher dispersing、chelating and colloid protective functions, used for the removal of unfixed dyestuffs on textile surface after dyeing and printing by direct、reactive and vat dyes.

Properties

- Removes unfixed hydrolised dyestuff from the fiber and keeps it in solution.
- Prevents re-exhaustion of hydrolised and unfixed dyestuff onto the fiber.
- Be applied to pattern soaping, have good anti-staining effect on white ground.
- Resistance to washing..
- Low foaming.

Chemical Characteristic Poly(acrylic acid-co-maleic acid)

Technical Data

Appearance: Light yellow clear liquid

PH value: 6-8

Ionicity: Anionic/Nonionic

Solubility: Easily soluble in water

Package: 125 kg plastic drum

Shelf life: about 6 months after delivery, if stored in original unopened drums under the sated conditions, recommended storage temperature +3°C to +35°C. The drum has to be tightly close immediately after sampling or use.

Application

Application example: the products can be diluted to 3-5 times to use.

The dyed fabric soaping formula:

MCH-3262(dilution) 1~3g/L

The printed fabric soaping formula:

MCH-3262(dilution) 2~4 g/L

Under 90~95 °C, treated for 5~6minutes, then washing, drying.



02 Neutralizing Agent AC-150E

Introduction

Neutralizing Agent AC-150E is a high tech recipe of various acid mixture. It performs buffering and PH stabilizing effect in the dyeing treatment, which has the outstanding PH stable and well coloring property. The product can reach the cotton fiber inner instantly, and neutralize the outside & inside fiber PH evenly. For the dyeing process of reactive macromolecular dyes, AC-150E can eliminate the color spot problem. It has no effect to color shade or color fastness, no irritant smell, which is an easy use and environmental friendly product.

Characteristic

Appearance: Transparent colorless liquid Solubility: Easily soluble in water

Odor: No irritant smell

Property:

- 1, Excellent PH stabilizing function, well coloring performance, no effect to color shade or color fastness.
- 2, Replace acetic acid to be the neutralizer of alkali, PH regulator, and the dyeing auxiliary of acid dyes, disperse dyes, cationic dyes and sulfur dyes.
- 3, The product has stable acid degree, which has similar buffering property with acetic acid. It contains no SO_4^{2-} , Cl^- , NO_3^- . The capability, dosage and dyeing condition are totally same with acetic acid.
- 4, The dyed fabric has stable and bright color shade, good color fastness, with no fiber damage.
- 5, Nearly has no irritant smell, easy and safe use, few volatile substance, convenient for storage and handling. It is ideal product to replace acetic acid for dyeing process.
- 6, Because of the special chemical structure, the product has no corroding effect to the dyeing facilities and device.



02 Neutralizing Agent AC-150E

Application

Ref. dosage: 0.4-1.0 g/L

Purpose: Neutralize to PH 7

Previous PH	AC-150E Dosage
8	0.07ml
9	0.19ml
10	0.41ml
11	0.59ml
12	1.30ml

From PH 7 adjust to an acid PH

Target PH	AC-150E Dosage
6.0	0.22ml
5.5	0.35ml
5.0	0.49ml
4.5	0.70ml
4.0	1.03ml

Packing & Storage

125kg/50kg plastic drum. Sealed in closed container at cool, dry, ventilated place avoid sunlight. Shelf life one year.

Notes: The product is non-toxic but is corrosive. It could not be swallowed, if skin touch should flush by plenty of water instantly. It is environmental friendly product, well bio-degradable property.

The above information is based on years of research and application experience of our company, which is drawn from our cautious experiments to the greatest extent and accepted as true. However, since your equipments, application conditions, and result requirements, etc. are beyond our control, we recommend you to conduct experiments first after choosing our products in order to ensure the results and security. On account of the diversity of application conditions, sometimes your experimental results and ours don't completely fit together, for which our company doesn't assure any responsibility. The introduction is only for your reference.



03 Dye Fixing Agent DAH

Function

used in the after-treatment of dyed textiles by reactive, direct, and sulfur dyes.

Properties

- Few color-falling in fix working liquid, which avoid color-lightening and color change.
- The treated fabrics have no change or effect to color shade, brightness or style.
- The treated fabrics have remarkable improvement of soaping anti-stain fastness, perspiration fastness and anti-washing fastness.
- Outstanding alkali-resistant property, which can be used before mercerizing process.
- Non- formaldehyde content, totally environmentally friendly product.

Chemical Characteristic Dye fixing agent

Technical Data

Appearance: light yellow to yellow viscous liquid

pH: 4.5

Ionicity: Cationic

Solubility: Easy soluble in water

Package: 125kg/50kg drum

Shelf life: Closed storage, storage period of 6 months at room temperature.

Application

Before fixing process, the dyed fabric should be washed completely (sometimes should be soaped) to remove the residue dyes, salts and alkali to ensure the final fixing effect. Recommending dosage and processes.

A. Exhausting process

DAH	1.0g/L (or) 1.0%o.w.f
Bath ratio	1:6 - 1:10
Bath temperature	30-50°C
Time of treatment	15-20minutes

B. Padding process

DAH: 5-10 g/L



04 Wet Rubbing Fastness Improve Agent MCH-305

Function

Used for cellulose fibres reactive dyeing after-treatment agent; improve the wet rubbing fastness of the fabric 1-2 grade.

Properties

- Won't destroy the dyed fabric fastness.
- Improve the wet rubbing fastness of the fabric 1-2 grade.
- Do not affect the light fastness.
- Resistance to washing.
- Does not changed the treated fabric handle.
- Direct diluted use, good stability, to overcome the floating oil shortcoming.
- Environmentally friendly products, formaldehyde and APEO free.

Chemical Characteristic Wet rubbing fastness improve agent

Technical Data

Appearance: Yellowish-brown liquid

Ph value: 5.5±1.0

Ionicity: Weakly Cationic

Solubility: Easily dispersed in any proportion of cold water

Package: 125 kg/barrel

Shelf life: about 6 months after delivery, if stored in original unopened drums under the sated conditions, recommended storage temperature +3°C to +35°C. The drum has to be tightly close immediately after sampling or use.

Application

According to the dye type, concentration, processed fabric types, form different, usage is as follows:

1. Impregnation method

MCH-305	3-6%(o.w.f)
Pick up	1:10 - 1:20
Process	after dyeing cloth (pH ≤ 7) - dip (temperature: 25 °C , time: twenty ~ 30 min) - drying(100 ~ 120 °C)

2. Pad method

MCH-305	3-6%(o.w.f)
Pick up	1:10 - 1:20
Process	after dyeing cloth (pH ≤ 7) - dip (temperature: 25 °C , time: twenty ~ 30 min) - drying(100 ~ 120 °C)

Note: good preparation of working liquid in 25 °C nearby translucent latex, please immediately made good use of. Before using should test first, the above process is only for reference



05 Soft Finishing Agent MCH-917

Function

MCH-917 is high efficient product with lower dosage than the traditional product. It combines both the properties of hydrophilic silicone and hydrophobic silicone. At low dosage the fabric has well hydrophilic property, when dosage at high level can obtain hydrophobic effect. It endow the fabrics perfect fluffy and silky handle, as well as hydrophobic property and washing durability. The product can be used for cotton, polyester and cotton blended fabric.

Properties

- Do not affect the hydrophilic character of the cotton and their blended fabric.
- Excellent chemical stability: belong to self-emulsifying property.
- No yellowing to white and light color fabric.
- Endow the fabric outstanding soft, fluffy, silky handle. Better than most hydrophilic silicone, less than the best hydrophobic silicone.
- Excellent compatibility, applicable for both exhausting and continuous padding process. It can be used with pigment, fixing agent, brightener, and also DP resin in one bath.
- For exhausting process, it can work in overflow cylinder at room temperature without spots stain problem. For continuous padding process, no sticking, no spots stain, easy repairing.

Chemical Characteristic Tri-Block Copolymer
Silicone Emulsion

Technical Data

According to the dye type, concentration, processed fabric types, form different, usage is as follows:

1. Impregnation method

MCH-305	3-6%(o.w.f)
Pick up	1:10 - 1:20
Process	after dyeing cloth (pH ≤ 7) - dip (temperature: 25 °C , time: twenty ~ 30 min) - drying(100 ~ 120 °C)

2. Pad method

MCH-305	3-6%(o.w.f)
Pick up	1:10 - 1:20
Process	after dyeing cloth (pH ≤ 7) - dip (temperature: 25 °C , time: twenty ~ 30 min) - drying(100 ~ 120 °C)

Specific process please uses sample-test to adjust.



06 Silicone Oil MCH-919

Function

It is the second generation of silicone softener. It is a ternary block copolymer of silicone oil, which eliminates the greasy feeling of the traditional silicone oil. Textile after treatment auxiliaries for softening finishing of cotton, polyester and cotton blended fabric. With high soft and elastic handle

Properties

- Do not affect the hydrophilic character of the cotton and their blended fabric.
- Excellent chemical stability: belong to self-emulsifying property. Under the conditions of wide pH value range (3~11), temperature to 100 degree Celsius, it has excellent shear-resistance stability.
- No yellowing to white and light color fabric.
- Can give soft, full, silk-like handle to fabric, and outstanding elasticity effect; can improve tensile recovery property of cotton knitting products significantly.
- The dyed fabric after finishing if need to change the color, does not need to remove softener ,does not affect the dye uptake.

Chemical Characteristic Silicone

Technical Data

Appearance: yellowish semi-transparent liquid pH: 4.0-5.0
 Ionicity: weakly cationic or nonionic Dilution procedure: can be diluted in any ratio with water at room temperature
 Solubility: Soluble in water Package: 125 kg or 50kg per plastic barrel Shelf life: about 6 months after delivery, if stored in original unopened drums under the sated conditions, recommended storage temperature +3°C to +35°C. Useless after frost effect.

Application

1. Exhausting method

MCH-919	0.3-1.0%(o.w.f)
pH value	4~5 (use acetic acidto adjust)
Temperature	30~50°C
Bath ratio	1:5 - 1:20
Time of treatment	20-30minutes
Drying	100~130°Cdrying

2. Continuous padding method

MCH-919	3-10g/L
pH value	4~5 (use acetic acid to adjust)
Temperature	20~40°C
Pick -up	≥65%
Drying	100~130°Cdrying

Specific process please uses sample-test to adjust.



07 Softener Flake MCH-0030

Introduction

MCH-0030 softener flake has strong alkali resistant, salt resistant and electrolyte resistant property. It has low requirement on the water hardness, can be widely used in most world area. The product applies to knit, woven cotton/polyester/blended fabrics softening treatment, as well as the yarn treatment. It endows the fabric excellent fluffy and smooth handle.

Specification

Appearance: Light yellow flakes

PH value: 3.5 – 5.5 (6%-10% solution)

Ionicity: Cationic

Composition: Fatty acid imidazoline compounds

Solubility: Best soluble temperature 55°C (50°C - 65°C)

Usage

1. Preparation:

Slowly add 8-10% MCH-0030 into room temperature water, then keep stirring and heat up the solution to 70-75°C (15-30min) to completely dissolved, cool down and prepare for use.

2. Padding process

MCH-0030 (10% solution)	20g/L ~30g/L
Temperature	30°C ~40°C
Process: One dipping one padding or Two dipping two padding	

3. Dipping process

MCH-0030 (10% solution)	3.0% ~8.0% (o.w.f.)
Temperature	40°C ~50°C
Bath ratio	1:10 ~1:15
Temperature	30min

Packing & Storage

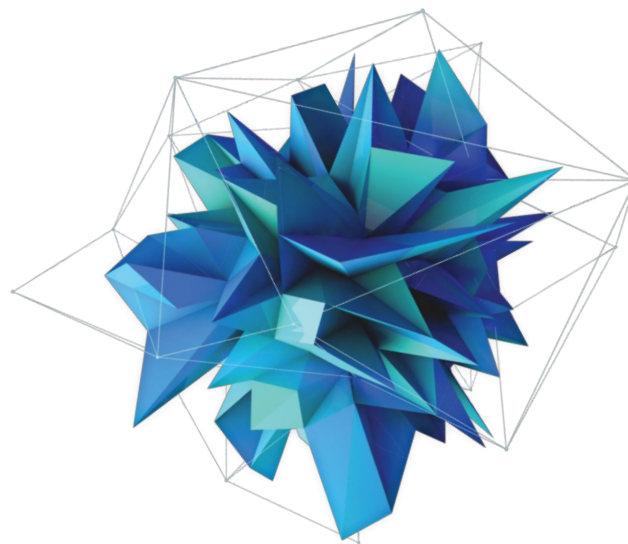
25kg woven bag. Store in dry and ventilated place away from sunlight. Shelf life 12 months.

The above information is based on years of research and application experience of our company, which is drawn from our cautious experiments to the greatest extent and accepted as true. However, since your equipments, application conditions, and result requirements, etc. are beyond our control, we recommend you to conduct experiments first after choosing our products in order to ensure the results and security. On account of the diversity of application conditions, sometimes your experimental results and ours don't completely fit together, for which our company doesn't assure any responsibility. The introduction is only for your reference.



Product Information Functional Chemical

01 Wales repellent
MCH-510



02 Weighting Agent
MCH-511



01 Wales repellent MCH-510

Properties

-Excellent water rejection effect. -Good washing resistance and excellent performance. -Suitable for all kinds of fibers, including cotton, chemical fiber, wool and mixed fabrics. - Good stability and sustainability. -No APEO, PFOA, and PFOS were available.

Technical Data

Appearance: Shallow yellow dispersion

pH: 2.5±1

Ionicity: Cationic

Solubility: Miscible in any proportion with water

Application

Fields of application: Durable water repellent finishing requirements

Rolling and baking method: Dip rolling (with liquid rate 50-80%) → baking (150-180 °C, 3-1min)

Ref. dosage: Durable water and oil repellency requirements (General washability requirements)

MCH-510 10-30g/L

Glacial acetic acid 0-2g/L

High water-resistant washing request:

MCH-510 30-80g/L

Crosslinking agent MCH-505 0-20g/L

Packaging and storage

125KG drum packaging or 50KG drum packaging .

Store in a cool place to avoid exposure to the sun, and cover in time after taking to avoid long-term exposure to the air.

Note: For the handling of unexpected situations and various fires, as well as information about environmental protection, toxicity, transportation, storage, etc., please refer to additional product safety data.

The above information is based on years of research and application experience of our company, which is drawn from our cautious experiments to the greatest extent and accepted as true. However, since your equipments, application conditions, and result requirements, etc. are beyond our control, we recommend you to conduct experiments first after choosing our products in order to ensure the results and security. On account of the diversity of application conditions, sometimes your experimental results and ours don't completely fit together, for which our company doesn't assure any responsibility. The introduction is only for your reference.



02 Weighting Agent MCH-511

Character

Appearance: colorless or yellowish transparent liquid

PH value: 6-7 (1% active aqueous solution)

Solubility: soluble in water

Ionic: Nonionic

FEATURES & APPLICATIONS

- 1.MCH-511 can give cotton, polyester, wool and other knitted or other types of fabrics with a thick sense.
- 2.The treated fabric does not have any adverse effect on the fabric itself.
- 3.MCH-511 is suitable for soft process treatment and can be used in the same bath with other auxiliaries.
- 4.It can make up for the weight loss caused by the pretreatment process. Can make the fabric add a certain weight, increase the weight of 3-15%.

Usage

MCH-511: 50-300g/L one dip and one rolling, 110-1500 C drying


Impregnation method: weight increasing agent 20-80% (o.w.f), bath ratio 1: 825-400C 20mins 100-1050C drying

Packaging and storage

50kg or 125kg plastic drum.

The above information is based on years of research and application experience of our company, which is drawn from our cautious experiments to the greatest extent and accepted as true. However, since your equipments, application conditions, and result requirements, etc. are beyond our control, we recommend you to conduct experiments first after choosing our products in order to ensure the results and security. On account of the diversity of application conditions, sometimes your experimental results and ours don't completely fit together, for which our company doesn't assure any responsibility. The introduction is only for your reference.





The above information is based on years of research and application experience of our company, which is drawn from our cautious experiments to the greatest extent and accepted as true. However, since your equipments, application conditions, and result requirements, etc. are beyond our control, we recommend you to conduct experiments first after choosing our products in order to ensure the results and security. On account of the diversity of application conditions, sometimes your experimental results and ours don't completely fit together, for which our company doesn't assure any responsibility. The introduction is only for your reference.

Thank you

WUXI YICHENG CHEMICAL CO., LTD

ADD: 18-1 Yong'an East Road, Economic Development Zone, Yixing City, Jiangsu Province, P.R.China.

TEL: 0510-87860386

FAX: 0510-87860786

WEBSITE: www.wxychx.com.cn

E-MAIL: lutianfen@163.com; lutianfen@wxychx.com.cn.

