

# LEEMING ENTERPRISE CO., LTD.



**LIMING GROUP**



Actual image of Petchaburi plant



# LIMING GROUP





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## COMPANY PROFILE

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Our group companies were first founded in Taiwan in 1974 where we have expanded our roots to Thailand to serve the domestic market and to export to leading textile regions globally. We have started as the manufacturer of textile chemicals including warp sizing, dyeing auxiliaries, and dyestuff. Throughout these years of development, we have increased our product range from textile chemicals to other chemicals of various industries.

## VISION

We, LEEMING ENTERPRISE CO., LTD. aim to become a global leader in textile chemical industry with the best quality products, outstanding service, and highest safety.

Our goal is to grow into a symbol of trust to our customers, suppliers, and employees.

## MISSION

To produce world class textile chemicals in the most efficient and environmental friendly way which satisfies our customers and empowers our suppliers and employees.

Actual image of Petchaburi plant



## HISTORY & MILESTONE



### YEAR 1974:

Establishment of our mother group company in Taiwan specialize in textile chemicals.

### YEAR 1989:

Establishment of our Thailand company for domestic market and South East Asia region including China, Cambodia, Indonesia, Laos, Malaysia, and Myanmar.



### YEAR 1992:

Establishment of our Petchburi plant in Thailand including the production of textile warp sizing chemicals, textile dyeing auxiliaries, and dyestuffs.

### YEAR 2000:

Establishment of our yarn-dyed factory, currently it's serving as one of the leading commercial yarn-dyed mill in Thailand.



**YEAR 2009:**

Establishment of our export company for export purpose mainly for Bangladesh, Vietnam, and South East Asian market.

**YEAR 2012:**

Establishment of our Chonburi plant in Thailand including the production of textile warp sizing chemicals.

**YEAR 2013:**

Establishment of our Vietnam company in Ho Chi Minh, mainly serving for domestic market.

**YEAR 2016:**

Establishment of our Ho Chi Minh plant in Vietnam including the production of textile warp sizing chemicals, textile dyeing auxiliaries, and dyestuff.





# PRODUCT

## 1. WARP SIZING

Our vast range of textile sizing chemicals will help you optimise your production by combining high-quality ingredients with to ease of use in the manufacturing process. Whether seeking ways to improve quality, cut costs, or reduce environmental impact; we always focus on manufacturing processes as a whole.



- PVA
- Starch
- Modified starch
- Nano modified starch
- CMS
- Acrylic size
- Compound size
- Sizing wax
- After wax
- After oil
- Water-jet size
- Filament size
- Anti-static agent

## WARP SIZING

Category	Product Name	Form	Description
PVA	BENSIZ PVA	G	PVA is a water soluble and biodegradable synthetic polymer. It is an excellent adhesive with superior bonding strength, film forming and emulsifying properties.
Starch	TAPIOCA STARCH	P	Industrial Starch derived from Tapioca root. This starch is particularly developed for the Textile Industry's use with Polyvinyl Alcohol in warp sizing.
	BENSIZ B-55	P	A Chemically Modified Industrial Starch derived from Tapioca with Low Viscosity. It's particularly developed for Textile Industry for partial replacement of Polyvinyl Alcohol in warp sizing.
Modified Starch	BENSIZ B-120	P	It is a Chemically Modified Industrial Starch derived from Tapioca with Middle Viscosity and particularly developed for Textile Industry for partial replacement of Polyvinyl Alcohol in warp sizing.
	BENSIZ K-2000	P	It has excellent sizing film with tenacity , abrasion resistance, and good adhesive strength for various fibers. It can replace partial quantity of PVA and also do not need to use acrylic sizes with it.
	BENSIZ K-9000	P	It has excellent sizing film with tenacity , abrasion resistance, and good adhesive strength for various fibers. It can replace partial quantity of PVA and also do not need to use acrylic sizes with it.
Nano Modified Starch	BENSIZ K-8000	P	It has excellent sizing film with tenacity , abrasion resistance, and good adhesive strength for various fibers. For Denim or low count yarn (i.e. cotton 16/1, 20/1) and can replace PVA and acrylic size completely.
CMS	BENSIZ B-99	G	Chemically modified starch with excellent size film tenacity, abrasion resistance, and good adhesive strength for various fibers. It can reduce the quantity of PVA (approx 20 ~ 30 %)and no need to use acrylic sizes either. It's easy to de-size and environmental friendly.
Acrylic Size	BENSIZ KU-350	L	A polymer of Acrylate. It is an easy removable sizing agent for spun yarn. Its solution is homogeneous, very stable and have high adhesive strength.
	BENSIZ LMA-3210	P	It is based on acrylic acid as the main synthetic polymer developed for spun yarn sizing material. It has good adhesion and flexible elastic film with low viscosity, enhancing the weaving efficiency and reduce drop size.
	BENSIZ E-850	P	A co-polymer of Acrylate and an easy removable sizing agent for spun yarns. Its solution is very homogeneous, stable with high adhesive strength. It can be washed out of the fabrics by hot water washing.



## WARP SIZING

Category	Product Name	Form	Description
Acrylic Size	BENSIZ E-650	P	A co-polymer of Acrylate and an easy removable sizing agent for spun yarns. Its solution is very homogeneous, stable with high adhesive strength.
	BENSIZ PC-800	P	Its size film has excellent tenacity, abrasion resistance, and good adhesive strength for various fibers. It does not contain Starch, so can use hot water to wash off.
	BENSIZ CM-500	P	An environmental (biology decomposable) synthetic size. Its size film has excellent tenacity, abrasion resistance, and good adhesive strength for various fibers.
	BENSIZ CM-850	P	Its size film has excellent tenacity, abrasion resistance, and good adhesive strength for various fibers.
	BENSIZ PC-650	P	It is the best sizing compound to perform excellently on cotton and blended yarn for high speed weaving looms. With high abrasion resistance and flexible film guarantees for a high weaving efficiency.
Compound Size (One Shot, Single Shot)	BENSIZ TCM	P	This sizing compound is excellent for warp sizing. PVA, Modified Starch, acrylic resin, softening and smoothing agents are compounded together for all types of fabric construction and loom capacity.
	BENSIZ K-1807	P	This sizing compound is excellent for warp sizing. PVA, Modified Starch, acrylic resin, softening and smoothing agents are compounded together for all types of fabric construction and loom capacity.
	BENSIZ K-6000	P	A compound size without PVA. The selected raw materials of modified starch, acrylic resin, softness and smoothness agent are compounded for high count cotton fabric construction and loom capacity.
	BENSIZ K-1207	P	It is suitable for cellulose fiber with low count yarn, especially recommended for denim warp sizing. This product does not need to add other sizing component. A compound size without PVA
	BENSIZ AD-K	P	It is a sizing compound to perform excellent for Denim warp sizing. Suitable for all types of fabric construction and loom capacity. The selected raw materials include of PVA , Various modified starch, CMS, softener, WAX and etc.
Sizing Wax	BENSIZ P-110	F	It's a textile oiling additive with wide adaptability, which is suitable in each kind of processing. It has antistatic effect reduce the friction during high speed weaving and therefore improve the weaving efficiency .
	BENSIZ M-85	F	It is an excellent textile warping WAX which is made from vegetable oil. It provides excellent quality with wide adaptability and suitable for each kind of sizing.

## WARP SIZING

Category	Product Name	Form	Description
Sizing Wax	BENSIZ B-60	F	It is particularly evident on native and regenerated cellulose fibers. Its antistatic effect will reduce the friction, and enables higher speed weaving without worrying about yarn breaking.
After Wax	BENSIZ A-82	F	A kind of self-emulsifiable WAX with excellent properties to increase the smoothness of surface of the yarn. It also reduce the friction & static between yarn and reed. It is developed for Cotton, T/C and CVC yarn as well as, for high speed sizing machine and weaving conditions of high density and fine counts fabric.
After Oil	BENSIZ KN-60	L	It provides circular knitting needle an excellent lubricant effect and can protect against needle broken, fabric pin-hole, and increase the weaving efficiency. It goes through fully emulsified process, if stained on the fabric, it's very easily washed-off, and not cause the oil spot in dyeing.
	BENSIZ AW-36	L	It is suitable for after oiling in sizing process and gives the yarn soft, smooth and elastic property. It has good antistatic effect and enhance the warp yarn's separation. It reduces dropulp and yarn breaking.
Water-Jet Size	BENSIZ NP-68	L	Sizing agent for polyester, nylon and filament using with Water Jet Loom. With its outstanding cohesive property, it prevents nep in warp yarn and makes it easy for reaching and weaving. It also has good water resistance capability.
Filament Size	BENSIZ F-25	L	It is an easy removable sizing agent for filament. The main component is co-polymer of an ester and synthetic polymer, it is transparent viscous liquid with stable and high adhesive strength.
Anti-Static Agent	MARKTAIN 963	L	It is an excellent antistatic agent, suitable for various fibers, such as nylon, polyester, 100% cotton and its blend. It creates static electricity conduction during the dyeing and finishing processes, then the static electricity disappear afterwards.
	BENSIZ G-110	L	It is an antistatic agent with multiple functions, suitable for various fiber. It can be used as an anti-static agent together with size.



# PRODUCT

## 2. DYEING AUXILIARIES

We offer great choice of dyeing auxiliaries providing highest performance and process accountability which help improve quality and reduce costs of production.



### 2.1 PRE-TREATMENT

- Enzyme for desizing
- Scouring agent
- Sequestering agent
- Wetting agent
- Mercerizing agent
- Stabilizer for H<sub>2</sub>O<sub>2</sub>
- Killer of H<sub>2</sub>O<sub>2</sub>
- Three-in-one agent

### 2.2 DYEING PROCESS

- Wetting agent for indigo
- Wetting agent for cheese dyeing
- Levelling and dispersing agent
- Levelling agent for cotton, nylon, acrylic
- Anti-crease agent
- Anti-barrier agent for nylon, polyester
- Retarding agent for acrylic yarn
- Anti-yellowing agent for nylon

- Defoamer
- Soaping agent for nylon, cotton, printing
- Fixing agent for reactive, direct, acid dyes
- Sodium alginate for printing
- Reduction cleaning agent

### 2.3 FINISHING PROCESS

- Non-ionic softener
- Cationic softener
- Silicone softener
- Hydrophilic softener
- Raising agent
- PE wax emulsion
- Water-repellent agent
- Cross-linking agent
- Increase deep of shade agent
- Machine cleaning agent

### 2.4 GARMENTS WASH

- Enzyme for desizing
- Anti-back staining agent
- Enzyme for garment wash

### 2.5 WASTE WATER TREATMENT PROCESS

- Decoloring agent
- Polymer (polyelectrolyte)
- Poly Aluminium Chloride

## DYEING AUXILIARIES (PRE-TREATMENT)

Category	Product Name	Form	Description
Enzyme for Desizing	BENZYME C-188	L	It is a heat stabilized enzymatic desizing agent which main component is alpha-amylase and very suitable for desizing of all kinds of fabric.
	BENZYME C-388	L	It is a new enzymatic desizing agent which main component is alpha-amylase and very suitable for desizing of all kinds of fabric. It can be used with wide range of temperature i.e 30 ~ 95°C
Scouring Agent	BENMORLE FS-30	L	Excellent emulsification with good removal result of oil and wax that is difficult to remove. It has an excellent penetrating power and suitable for all fibers during desizing, scouring, bleaching and stain removing. It is also suitable for non-continuous, semi-continuous and continuous machine.
	BENMORLE MFB-50	L	It is an acid scouring agent, suitable for a variety of fiber pretreatment and dyeing process; i.e Nylon, polyester dyeing.
Sequestering Agent	BENQUEST C-80F	L	It is a special polymeric surfactant which shows excellent effect for scale controlling and for sequestering the metal ions (ex Fe <sup>2+</sup> , Fe <sup>3+</sup> , Mg <sup>2+</sup> , Ca <sup>2+</sup> , etc) in water, fiber and dyestuff. Especially for Indigo dyeing, it has good Fe <sup>3+</sup> , Fe <sup>2+</sup> sequestering ability, thus increase the bright shade of denim.
	BENQUEST C-600	L	It is a special polymeric surfactant which shows excellent effect for scale controlling and also dispersing sizes during the process of desizing fabric. It can also be also a good chelating agent in the water of high hardness.
	BENQUEST C-690	L	A special polymeric surfactant which shows excellent effect scale controlling and dispersing of desizing synthetic fabric with lower pH value. It could be a good chelating agent in the water of high hardness.
	BENQUEST CA-170	L	A special polymeric surfactant which shows excellent effect scale controlling and has dispersing effect in the process of scouring, bleaching dyed cotton, rayon or blend fabric. It can also be a good chelating agent in the water of high hardness.
Wetting Agent	BENVADINE PT-70N	L	Suitable for all kind of fiber in pre-treatment, dyeing and finishing process. It can improve the penetrating effect of main agent in exhaustion and padding dyeing process (especially suggest to use in finishing process).
	BENVADINE MK-25	L	It is suitable for pre-treatment, desizing and dyeing process. It increases the penetration of fiber and also gives low foaming. Suitable use with enzyme desizing process.



## DYEING AUXILIARIES (PRE-TREATMENT)

Category	Product Name	Form	Description
Mercerizing Agent	BENVADINE MR-100	L	Suitable for cotton and blended mercerizing processing, improve wetting effect enhancing the cotton fiber swelling. It has good alkali resistance.
Stabilizer for H2O2	BENRISE PB	L	It is a very well H2O2 stabilizer which can improve bleaching effect.
Killer of H2O2	BENZYME DHP	L	Suitable for removing residual hydrogen peroxide after peroxide bleaching process. It only reacts to the hydrogen peroxide, thus saving the washing time and water.
Three-In-One Agent	BENMORLE NANO-100	L	A compound Auxiliary agent for pre-treatment process and a substitute of conventional scouring agent, chelating agent, stabilizer, and wetting agent. It is easy to use, with low BOD and COD, and suitable for cotton and T/C fabrics.

## DYEING AUXILIARIES (DYEING PROCESS)

Category	Product Name	Form	Description
Wetting Agent for Indigo	BENWET TD-W	L	It is a yellowish transparent, low-foaming liquid and easily dissolved in normal water. A wetting agent for dyeing from long liquors for its molecular structure. It's a low-foaming padding auxiliary for continuous and semi-continuous dyeing process. It is suitable for indigo dyeing for its resistance of high alkalinity.
	BENWET NF-K	L	It will improve dyestuffs dispensability and solubility, thus yielding better color values and greater uniformity. Due to its molecular structure, it's a low-foaming padding auxiliary for continuous and semi-continuous dyeing process. It is suitable to use for indigo dyeing for its resistance of high alkalinity.
	BENWET EH-K	L	A strong wetting agent for sulphur dyeing. Due to its Molecular structure, active ingredients have the power to break the surface tension even at high temperature in sulphur dye bath. It also removes the dullness of sulphur dyes & improves the luster in shade.
	BENWET RD-999	L	It will improve dyestuff's dispensability and solubility, and yield better color values and greater uniformity. It is suitable for indigo dyeing and denim rope dyeing for its resistance of NaOH. It has excellent de-air and penetration ability.
Wetting Agent for Cheese Dyeing	BENVADINE IW-643	L	It will improve dyestuff's dispensability and solubility, thus yielding better color values. Due to its molecular structure result in Low-foaming which serves as a padding auxiliary for continuous and semi-continuous dyeing process, especially for cheese dyeing use.
Levelling and Dispersing Agent	BENTRON RM-340H	L	It improves the dye penetration of yarn and faulty dyeing on polyester. A good levelling and dispersing agent with low foaming suitable for cheese dyeing and high speed dyeing method.
	BENTRON K-500	L	Suitable for polyester fiber and its blends in dyeing process. Excellent retarding effect in the initial stage of dyeing which results in good level-dyeing effect for the dye combination having different compatibleness and not influence the dye build.
	BENTRON S-7000	L	A special dispersing agent for dyeing polyester and its blend, and still has excellent dispersing ability during high temperature at 130 ~ 135° C.
	BENTRON DS-P	P	A special dispersing agent for dyeing polyester and its blend.
Levelling Agent for Cotton, Nylon, Acrylic	BENLON AD-N	L	A levelling agent for acid or chrome dyestuffs to dye nylon or wool. It has a good migration ability to achieve levelling affect.
	BENLON N-900	L	A levelling agent for acid dyestuff to nylon or wool by special surfactant. It has a good migration ability to achieve levelling affect.
	BENLEVER AN	L	A very good leveling agent for basic dyestuff.
	BENLEVER RL-T	L	It has excellent leveling effect on direct and reactive dyestuffs in dyeing process.



## DYEING AUXILIARIES (DYEING PROCESS)

Category	Product Name	Form	Description
Anti-Crease Agent	BENSOF A-12	L	A special surfactant formulated product that reduces both fiber-fiber and fiber-metal friction, thus facilitates the capacity of the material to be folded down without creasing.
Anti-Barrier Agent for Nylon, Polyester	BENLON BR-1	L	Suitable for nylon fibers with good dyes migration effect. It can prevent ending, listing and other uneven dyeing.
	BENTRON PL-7	L	Suitable for polyester fibers with good dyes migration effect. It can prevent ending, listing and other uneven dyeing.
Retarding Agent for Acrylic Yarn	BENLEVER PAN-650	L	An economical retarder for acrylic fiber. It provides the required result especially for fiber with high saturation value for cationic dyes and exhibits strong penetrating effects and low foaming properties.
Anti-Yellowing Agent for Nylon	BENLON ANT-Y	L	An excellent anti-yellow agent for Nylon and Polyester fabric when stored for long time or high temperature setting; especially the yellowing that occurs on the fabric contact with NO <sub>x</sub> , SO <sub>x</sub> of air, and BHT packing bag.
Defoamer	DEFOAMER JCA	L	It has very excellent defoaming ability, and can resistant high temperature.
	DEFOAMER JCK	L	A good emulsion and defoamer. Suitable to use on textile process.
Soaping Agent for Cotton dyeing and Printing	BENMORLE RS-P	L	Suitable for soaping process after reactive dyeing, to improve the fastness. Applicable to all kinds of dyeing and finishing methods; especially recommended in cheese dyeing where the effect is more vivid.
	BENMORLE RC-117W	L	Suitable for soaping after all kind of dyeing process, especially after printing process. It can prevent the staining of white ground with each other and improve the brightening effect. It also improves the color fastness in soaping after dyeing.
Fixing Agent for Reactive, Direct, Acid Dyes	BENFIX A-22	L	It is a non-formaldehyde fixing agent for direct, reactive dyestuffs to improve the washing fastness and water fastness. It has high resistance to salts, hard water, alkali and acid. It improves the fastness of water-washing and perspiration. It also has good resistance to Mercerizing process.
	BENFIX NPT	L	It is an acidic fixing agent, suitable for Nylon fiber and blended fabric dyeing.
	BENFIX RF-5000N	L	Suitable for cellulose fiber reactive, direct-dye dyeing and printing. It is better than cationic fixing agent in terms of improving wet fastness, soap making for green, turquoise blue color.
	BENFIX RF-918	L	It is newly developed poly-cationic dye fixative for cellulose fabrics dyed with reactive dyes. It shows excellent wet fastness for reactive dyes. It has little adverse effect on water absorbency after fixing treatment.

## DYEING AUXILIARIES (DYEING PROCESS)

Category	Product Name	Form	Description
<b>Sodium Alginate for Printing</b>	BENSIZ SA-100	P	Suitable for printing and dyeing process, where high, mid, low viscosity are available as SODIUM ALGINATE or anti-migration agent, with high, middle, low viscosity products that depend on process. It is also good compatible with other printing or dyeing auxiliaries.
<b>Reduction Cleaning Agent</b>	BENMORLE FA-004A	P	Acidic reduction cleaning agent and suitable for PET and its blends during reduction cleaning process. It can be applied in the same bath after dyeing without drain, therefore a lot of water can be saved. It has very minor disturbing odor.
	BENMORLE FA-300	P	Reduction cleaning agent use with caustic soda or soda ash. It's economical and effective after dyed or printed polyester fiber. It removes unfixed dyestuff from polyester fiber and improves fastness properties of dyed goods.



## DYEING AUXILIARIES (FINISHING PROCESS)

Category	Product Name	Form	Description
Non-Ionic Softener	BENSOF M-8610	L	It is an excellent softener and lubricant for textile/smaller case manufacturing processes for the continuous INDIGO DYEING of warp yarn and rope form for opening lubricant. It can be applied for cellulose and its blend with synthetic fibers. It gives smoothness, soft hand feeling and antistatic properties.
	BENSOF AC-100	F	This product is an excellent softener, and it can be applied for cellulose and its blend with synthetic fibers such as nylon, polyester and etc. It imparts smoothness, soft hand feeling and antistatic properties.
	BENSOF CD-615N	L	It is suitable for all kinds of fiber, especially for fluorescent bleaching yarn and dyed-yarn looking to minimize yellowing effect. It's also suitable for softening and lubricating finish of cheese dyeing, and can also be uniformly absorbed at inner and outer layer of the yarn.
Cationic Softener	BENSOF WQC-100	G	It is an excellent softener, especially, applied for cotton and its blend fabrics. It gives smooth, soft, and silky-liked hand feeling with antistatic properties. It can also be used on garment wash for smooth and soft hand feeling. This product does not contain AEEA (Amino Ethyl Ethanol Amine)
	BENSOF A-300K	F	It is an excellent softener, especially, and applied for cotton and its blend fabrics. It gives smooth, soft, silky-liked hand feeling with antistatic properties. It can also be used on garment wash for smooth and soft hand feeling.
	BENSOF AM-8315	L	Suitable for various fibers and blended products to create fluffy, bulky, soft and elastic effect. It also gives outstanding wash back elasticity, and recommend applied on knitted fabric which will give good hand feeling and yet, significantly improve the tensile recovery properties.
Silicone Softener	BENSOF HRC-70	L	It is based on silicone fluid, with special equipment to create emulsion. It can be applied on T/C, CVC, Cotton, Indigo fabric with unique softening, elastic and smoothening effect.
Hydrophilic Softener (For Towel & Fabric)	BENSOF CD-620	L	Suitable for any kind of fiber, especially for fluorescent bleaching yarns and dyed-yarns looking to minimize yellowing effect. And it has hydrophilic properties, which is recommended in towel products.
Raising Agent	BENSOF S-450	L	It shows excellent soft and smoothening hand feeling with anti-static properties. It is very suitable for raising cotton, rayon staple fabrics and its blend, which gives uniform raising effect.
PE Wax Emulsion	BENSOF PE-25	L	Suitable for all kinds of fiber or fabric in smoothening process, to improve their sewing properties and prevent pinhole. It can be used with any kind of resin and catalyst. It is specially used in the Wrinkle-free process and calendering.

## DYEING AUXILIARIES (FINISHING PROCESS)

Category	Product Name	Form	Description
Water Repellent Agent	BENPEL CO-955	L	Suitable for cotton and polyester blends, polyamide and blended fabrics in water and oil repellent process. Its good water-repellent and oil-repellent properties can prevent from stain. It is a flouro free hydrophobic agent.
	BENPEL TF-305	L	Suitable for cotton fiber and its blends, polyamide and polyester fabrics during water-repellent and oil-repellent process. It has good water repellency, even after repeat washing. It is based on C-6 alkyl fluorine, so it is PFOA and PFOS free.
Cross Linking Agent	BENFIN M-200A	L	It is an organic catalyst used in resin finishing of all kinds of fiber. It can be used with melamine resin, urea resin or other reactive resins.
Increase Deep of Shade Agent	BENFIN ACE-25R	L	It gives excellent performances to fibers in increasing the depth of black shade, especially used for polyester and cotton. It is easy to dilute in water and compatible with other resin finish agent.
Machine Cleaning Agent	BENCLEAN SC-100N	L	When dyeing polyester, nylon and its blend, the machine will be stained with dyes and oligomer where this product acts as machine cleaning agent to wash off the oligomer.



## DYEING AUXILIARIES (GARMENT WASH)

Category	Product Name	Form	Description
Enzyme for Desizing	BENZYME C-388	L	It is a new enzymatic desizing agent which its main component is alpha-amylase. It's very suitable for desizing of all kinds of fabric and can used on wide range of temperature ( i.e 30°C ~ 95°C)
Anti-Back Staining Agent	BENMORLE CK-100	P	During garments washing, it is easy for color to stain on ground or pocket of denim. By applying this agent in washing bath, staining of white ground or pocket can be prevented.
Enzyme for Garment Wash	BENZYME TF-300	L	It is designed to use either alone or with pumice stone to give maximum abrasion with minimum damage during treatment of denim garments.
	BENZYME DP-558	L	It is a stabilized liquid cellulose enzyme for depilling of textile. Strong and rapid depilling effect especially on cotton. It' performs optimally in a temperature range of 50°C ~ 60°C (pH= 4.5 ~ 5.5)

## DYEING AUXILIARIES (WASTE WATER TREATMENT)

Category	Product Name	Form	Description
Decoloring Agent	BENFILL E-20	L	It is a decoloring agent for waste water treatment that results from dyeing and finishing waste water. Containing reactive dyestuff, sulphure dyestuff, direct dyestuff, disperse dyestuff, deeply color waste water. It shows excellent decolor effect of deep color.
	BENFILL DC-80	L	It is a decoloring agent for waste water treatment that results from dyeing and finishing waste water. Containing reactive dyestuff, sulphure dyestuff, direct dyestuff, disperse dyestuff, deeply color waste water. It shows excellent decolor effect of deep color.
	BENFILL WTA-P	L	It is a decoloring agent for waste water treatment that results from dyeing and finishing waste water. Containing reactive dyestuff, sulphure dyestuff, direct dyestuff, disperse dyestuff, deeply color waste water. It shows excellent decolor effect of deep color.
Polymer (Polyelectrolyte)	Polymer AA	G	A high molecular weight anionic polyacrylamide flocculant serves as a free flowing granular. It is recommended to be used as a coagulant aid in primary clarification and also in industrial waste water treatment process.
	Polymer CAT	G	A high molecular weight caionic polyacrylamide flocculant serves as a free flowing granular. It is recommend to be used as a coagulant aid in primary clarification and also in industrial waste water treatment process.
Poly Aluminium Chloride	PAC	P	It can be used for purification of water such as city water, Industrial water, Industrial Waste water, civil waste water to reach its high purity content, high coagulation ability, and stable physical property in long duration.




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# PRODUCT

## 3. DYESTUFF

With our extensive dyestuff range you can find desired product suiting your requirements with great colour fastness and no fading.

- 
- Reactive Dyes
  - Disperse Dyes
  - Direct Dyes
  - Acid Dyes
  - Basic Dyes
  - Sulphur Dyes
  - Indigo Dyes
  - Optical Brightening Agent

## DYESTUFF

Category	Product Name	Form	Description
Dyestuff	Reactive Dyes	P	Dyes used mostly for cotton, rayon, and cellulosic fabric. Reactive dyes have a bright shade with high washing fastness and rubbing fastness properties.
	Disperse Dyes	P	Dyes for polyester fibre with variety of shades and excellent properties.
	Direct Dyes	P	Effective dyes for Cotton
	Acid Dyes	P	Economical and simple dyes for Nylon fibres offering great light fastness.
	Basic Dyes	P	Cationic dyes that are mainly used for dyeing acrylic fibre and cationic dyeable polyester fibre.
	Sulphur Dyes	P	Relatively cheap dyes offering good colour strength for Cotton black
	Indigo Dyes	P	Classic denim dyes of the best quality
	Optical Brightening Agent	BENWHITE BB	P
BENWHITE ETB		L	Optical brightening agent for polyester
BENWHITE BAC		L	Optical brightening agent for Acrylic Fiber



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# PRODUCT

## 4. OTHER CHEMICALS

All your special needs can be fulfilled with our client customised products tailored to any of your desires. Our R&D team is able to bring personalised chemicals to any textile production requirements.



4.1 TEXTILE BASIC CHEMICALS

4.2 INDUSTRIAL CHEMICALS

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## TEXTILE BASIC CHEMICALS

Sodium hydroxide / Caustic soda (flake, pearl)

Glacial Acetic Acid (GAA)

Sodium hydrosulfite 85%, 90%

Hydrogen Peroxide

Citric acid

Organic acid

DMF

Monosodium phosphate

Sodium metabisulfite



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## INDUSTRIAL CHEMICALS

Paraformaldehyde (PFA) 92%, 96%

Melamine powder

HDPE

Paraffin wax

VAM (Vinyl Acetate Monomer)

VAE Emulsion (Vinyl Acetate-Ethylene Emulsion)

PTG, PTMEG (Polytetramethylene Ether Glycol)

1,4-BDO (1,4-Butanediol)

MPO (2-Methyl-1,3-propanediol)

Amino resins

Soybean oil

Ethyl acetate

IPA



# LOCATIONS AND CONTACT

## THAILAND

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## PETCHABURI PLANT

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