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Leveling Agent

Textile auxiliaries are essential to enhance the added value of textiles, not only make the textile functional, but also make its high-grade, more with the sense of the times. In order to have these advantages, the premise is the fabric dyeing to be evenly permeable, a very effective method that using leveling agent which features in slow dye or migration to achieve uniform dyeing effect.



宏昌化工
Hongchang

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- In the dyeing process of fiber yarn, line or fabric , in order to promote uniform dyeing without color bars, spots and other added substances, **leveling agents** are here to use. Most of the leveling agents are water-soluble surfactants, which are divided into two types according to the effect of leveling agent on the diffusion and aggregation of dyes: one is fibrous leveling agent, which has little effect on the concentration of dyes. But the affinity of the fiber is greater than the affinity of the dye to the fiber, so in the process of dyeing, this kind of leveling agent will be combined with fiber first, reduce dyeing rate, but with the change of dyeing conditions, dyes will gradually replace the leveling agent, fixed on the fiber, this kind of leveling agent only has a slow dyeing effect; the second is the dye affinity leveling agent, which can significantly improve the dye aggregation degree, the affinity of the dye is greater than the affinity of the dye on the fiber. The leveling agent is combined with the dye to produce a stable aggregate, which reduces the dye diffusion rate and delays the dyeing time. As the condition changes, the dye gradually get rid of of the leveling agent, combined with the fiber, but at this time leveling agent on the dye still have a certain affinity, for unevenness of fabric can also be dyed from the fiber down, dye on the light of the place, so this kind of leveling agent not only has a slow dyeing effect, but also has the dye migration.
- In addition, according to the type of fiber used, can be divided into natural fiber leveling agent, nylon leveling agent, acrylic leveling agent, polyester leveling agent and blended fabric leveling agent.





Leveling Agent for Acid Dyes 2015K



- [Main composition] Zwitterionic surfactants.
- [General properties]
- Appearance: light yellow liquid
- Ionicity: anionic
- Solubility: easily soluble in water
- Stability: stable to acid, alkali, electrolytes and hard water
- [Product features]
- 1.Excellent leveling and migration that confer an even and bright shade to fabrics, as well as good shade fastness.
- 2.Does not induce shade change.

- [Application]
- HT-2015K: 1.0-2.0% (O.W.F)
- The amount of HT-2015K will be lowered as shades go deeper.
- [Packaging and storage]
- 125 kg/ polyethylene drum, 12 months in sealed container at room temperature.
- [Notes]
- The data contained in this literature are based on our current knowledge and experience. It is imperative that it be tested to determine, to your satisfaction, whether it is suitable for your intended use and application. We shall not take any responsibility in any situation for improper use.



Acid Leveling Agent HTW



[Main composition] Zwitterionic and non/anionic surfactants.

[General properties]

Appearance: light yellow liquid

Ionicity: anionic

Solubility: easily soluble in water

Stability: stable to acid, alkali, electrolytes and hard water

[Product features]

1.Excellent leveling and migration that confer an even and bright shade to fabrics, as well as good shade fastness.

2.Does not induce shade change.

[Application]

HTW: 0.15-2.0% (O.W.F)

The amount of HT Acid Leveling Agent-HTW will be lowered as shades go deeper.

[Packaging and storage]

125 kg/ polyethylene drum, 12 months in sealed container at room temperature.

[Notes]

The data contained in this literature are based on our current knowledge and experience. It is imperative that it be tested to determine, to your satisfaction, whether it is suitable for your intended use and application. We shall not take any responsibility in any situation for improper use.



Dacron Chemical Agent | The Application Requirement to the Dacron High Temperature Levelling Agent



High-temperature and high-pressure dyeing is the main dyeing method adopted by Dacron fiber. Owing to these characteristics of Dacron, its put forward special requirement for the levelling agent. And the difference of semi-finished Dacron fabric on the types put forward a new requirement for the high-temperature levelling agent. So besides the basic conditions, 130°C is provided in the process of retarding and migration, some special conditions also need to be provided to semi-finished Dacron fabric. Or the special application requirement to high temperature and high-pressure dyeing will not be met.

The basic function of high temperature and high-pressure [levelling agent](#).

Hydrophobic disperse dyes is applied in the Dacron fiber dyeing. But its hydrophobic property makes its difficult to dissolve in the water, which is a contradictory thing in the dyeing process in which, the water is the medium. So the dispersing agent and other surfactant is mixed in the dispersing dyeing agent in the proportion of 1:1.5. And the high-temperature levelling agent adding in the dye bath also function as a supplement. Which help the particles in the dye bath suspense and disperse in the even and stable disperse. This is especially important for the light and neutral color. Because for the light and neutral fabric, the dye is used less than the deep color fabric, And the disperse agent is less in the dyeing process. The high-temperature levelling agent will be a supplement to this.

The levelling agent possesses the function of retarding. But the migration property is also needed to match with the disperse agent. Because there is no chemical reaction in the process of Dacron dyeing using dispersing dye agent. And the tight structure of Dacron fabric functions as retarding. The migration will supplement in this aspect. Especially when the temperature is up to 130°C, most of the dyes in the fabric have been dyed on the fabrics. And the retarding function has finished. Now the migration is working. And it will promote the functions of levelling agent.

So retarding, migration and disperse is the basic function of high-temperature levelling agent. And it is the basic function of different dyeing machine.

The special requirement on classification

Different dyeing process on different dyeing machine put forward a special requirement for high-temperature levelling agent. Beside the basic functions above, the low foam type, anti-sludging type, penetrating type also help to form series.

Levelling is important to fabric dyeing. So the [levelling agent](#) is important. And the high-temperature and high-pressure dyeing, the diversity of semi-finished fabric and the selection of dyeing machine put forward requirement on the variety of the high-temperature levelling agent. So the development of high-temperature levelling agent in series and specificity is necessary. Thus, it will meet the requirement in the production.

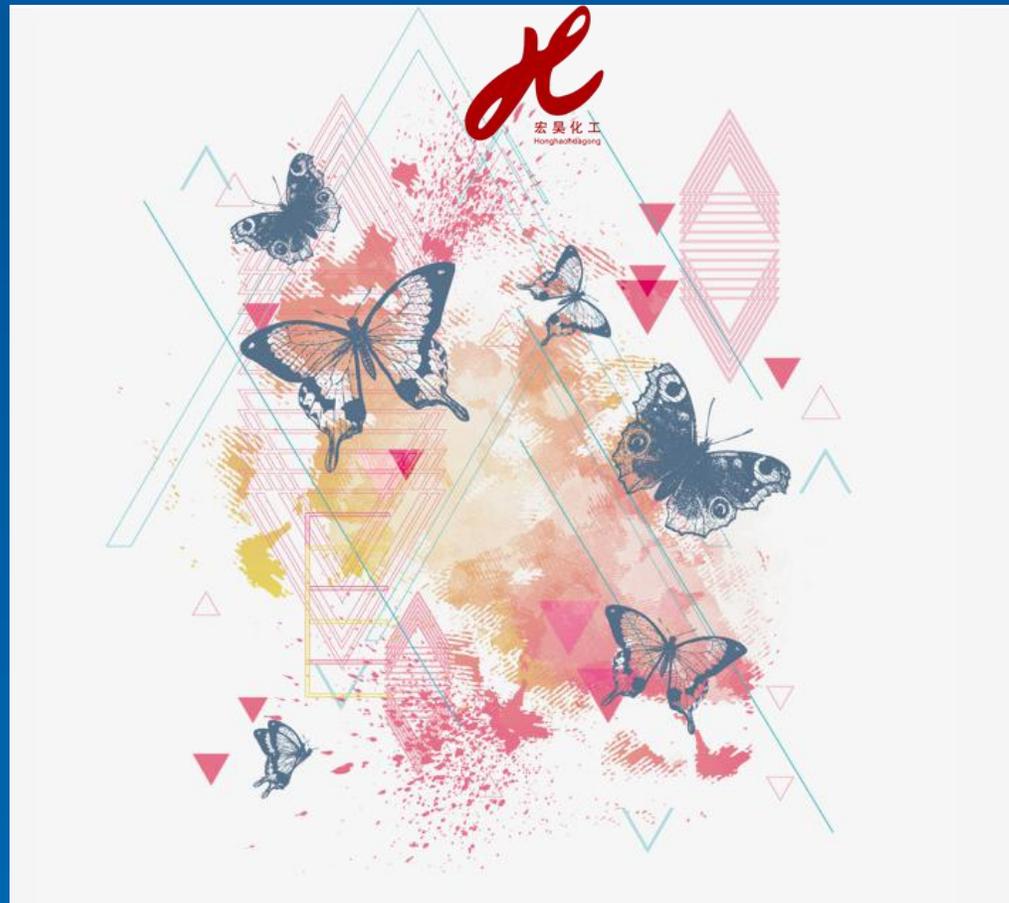
However, we also need to know that levelling agent is not the only factor which decides the success of dyeing. Other factors include the choose of type, temperature rising, the operation of stop buffer, situation of equipment. Only all process work together keeps the levelling process stable.



Package & Delivery

According to customer's requirement, we can provide different packages. Such as 50kg, 125kg or 200kg for liquid.





THANKS FOR WATCHING

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