



Taigal PAN-01

Cationic retarder for dyeing Acrylic fiber

I. Properties

1. Appearance : pale yellow clear liquid.
2. Ionic : cationic.
3. ph value (1% sln.) : 5.5~6.5.
4. Main component : amine derivate.
5. Solubility : easily dilutable with cold water.
6. Storage : if Taigal PAN-01 exposed below 10°C for long time , it may freeze.

Move it to room temperature and mix well before using.

II. Features

1. Taigal PAN-01 is an economical retarder for dyeing Acrylic fiber.
2. Taigal PAN-01 provides the retardation required for perfect result , especially for the Acrylic fibers with a high saturation value.
3. Taigal PAN-01 exhibits strong penetrating effect and low foam properties.

III. Application

1. The quantity of Taigal PAN-01 required depends on the DC value , f-value of retarder , F-value of fibers and dye concentration. The following formulation offers a simple method to estimate the quantity of Taigal PAN-01 :

$$\text{The quantity of Taigal PAN} = \frac{\text{F-value of fibers X DC} - \text{DX}}{\text{f-value of PAN-01}}$$

$$\text{DX} = \text{f-value of dyes} \times \text{X\% dyes}$$

2. When stripping and leveling out faulty dyeing , carried out in a high liquor ratio with the addition of 2~4% o.w.f. Taigal PAN-01 and extra dyes

IV. Test method of retarding power — half dyeing method

The retarding power can be easily estimate by following recipe :

Acrylic yarn (F=2.1)	4g
Taiacryl Blue RGN-T 100% (Basic Blue 41)	0.5% o.w.f.
Retarding agent	4.0% o.w.f.
pH= 4.5	boiling 20 min

Estimate : The highly color yield means the weak retarding power.

The information and data in this bulletin are based on accurate laboratory researches and intended for your guidance. We cannot, however, accept any responsibility for the results obtained, in view of the numerous factors of applications are beyond our control. Our guarantee is limited to consistent quality of our products.