



Taigal PAN

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 exposes below 10°C for long time , it may freeze. Move it to room temperature and mix well before using.

II. Features

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

III. Application

1. The quantity of Taigal PAN 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 :

$$\text{F-value of fibers} \times \text{DC} - \text{DX}$$

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

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

$$\text{DC} = 70\% \sim 80\%$$

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 and X% dyes.

IV. Test method of retarding efficiency - half dyeing method

The retarding efficiency can be easily estimated 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 |

Result: The highly up-take means the weaker retarding efficiency.

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