KAPP-CHEMIE
TISSUE TEXTIL
SERVICES

KAPPAPHOR ZF 03

Optical brightener for cellulosic fibres

Chemical composition	stilbene derivative
Appearance	amber coloured liquid
pH-value 20 °C	9.5 – 10.5 (product)
Density 20 °C (g/ml)	approx. 1.17
Ionic charge	anionic

Contact

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Function

KAPPAPHOR ZF 03 results in a neutral to blue-tinted white. The affinity is comparatively low, but can be increased by adding salt. KAPPAPHOR ZF 03 is resistant to salts causing hardness of water, acids, alkalis, hydrosulphite, hydrogen peroxide and various electrolytes.

Application

KAPPAPHOR ZF 03 is not only suitable for textiles of 100 % cellulose. Blends with synthetic fibres can be brightened, too, if the amount of cellulose is at least one third.
KAPPAPHOR ZF 03 has no affinity to synthetic fibres. Nevertheless, the achieved whiteness is uniform, as the fluorescence of the brightened cellulosic fibres compensates for the unbrightened synthetic fibre. Due to its low affinity, KAPPAPHOR ZF 03 is especially suitable for the application on padders:

Application levels, indications:

1. PADDING PROCESS (e. g. peroxide pad-batch bleaching, pad-steam bleaching)

- 1 – 5 g/l KAPPAPHOR ZF 03

2. EXHAUSTION PROCESS

- 0.1 – 0.5 % KAPPAPHOR ZF 03
- 3.0 – 5.0 g/l sodium sulphate

3. FINISH

KAPPAPHOR ZF 03 is compatible with usual finishing agents. In combination with cationic auxiliaries, precipitation may still occur.

4. SYNTHETIC RESIN FINISH

The danger of uneveness between ends does not exist even when working with comparatively high amounts of catalysts. However, the selection of the catalyst type is important. Nitrates should only be used when the fabric is rinsed thoroughly after the condensing. Otherwise, there is a strong reduction of the light fastness or even brownish discolourations. With reactive resins, which are normally condensed for 5 minutes at 150 °C, the use of diammonium phosphate as catalyst should be avoided as brownish discolourations may also occur.

Dilution instruction

KAPPAPHOR ZF 03 can be diluted with cold water at any ratio.

Storage

KAPPAPHOR ZF 03 remains stable for at least 6 months when kept cool in a tightly closed original container.

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