

## OBTEX- BMK POWDER

### Product Details:

OBTEX- BMK Powder is a highly substantive optical whitening agent for all natural and regenerated cellulosic fibers except acetate. It is also applied on Pulp having sized in alkaline medium with synthetic sizing additives. The product is not suitable in surface sizing application.

#### PROPERTIES :

<b>Appearance</b>	Yellowish Powder.
<b>Chemical composition</b>	Stilbene Disulphonic Acid derivative.
<b>Ionic Character</b>	Anionic
<b>Storage Stability</b>	12 Months
<b>Stability</b>	H <sub>2</sub> O <sub>2</sub> : Very good Hydrosulphite : Very good Cl : Not stable Acid : Not stable under 5.
<b>Shade</b>	Bluish to Neutral White.
<b>pH at 25°C</b>	9.5 ± 0.5
<b>Bulk Density</b>	0.60 ± 0.01
<b>Hard Water</b>	Upto 70 ppm
<b>Type</b>	Disulpho

#### Appearance Solubility :

It can be dissolved very quickly by adding an equal amount of hot distilled softened water to form an aqueous solution which remains clear and does not gel when cooled. It is advisable to boil up the solution immediately before adding to the treatment baths or in the Paper Machine chests. When preparing stock solutions of OBTEX- BMK Powder Powder, soft or dematerialized water should be used, as hard water may cause precipitation.

#### Application in Paper :

In Paper Machine wet end OBTEX- BMK Powder is used when the Paper is made in Alkaline medium. Use of Cationic Polymer does not hamper the whitener. The whiteness of the pulp can be maintained on the higher side by using a very little quantity viz., 0.01 – 0.04% by wet of dry pulp. This product works well in hard water upto 70 ppm CaO hardness. Product should be used at pH 7.0 & above.

#### Shade :

The shade of white effects is obtained in alkaline medium.

#### Fastness Stability :

When the white effects are acidified the shade may tend to yellow but this can be remedied by a weakly alkaline rinse.

Hard water has no adverse influence on the white effect. In fact it produces a quicker and more complete exhaustion of the bath.

However, iron and, to a fastness extent, copper compounds impair the white effect and treatment may only be carried out on machines of these metals if the surfaces have been rendered inert.

Solutions of OBTEX- BMK Powder are sensitive to light. Stock solutions must therefore be kept away from light.

**Toxicology :**

Lethal dose in rats (LD50) is about 5300 mg/kg body weight. Tests on rabbits showed that there was no irritation on the skin or mucous membranes. This product is partially eliminated by the micro-organisms in activated sludge and does not impair their effectiveness in amounts up to 300 mg/l. Trout withstand up to 1000 mg/l on brief exposure (48 hours). The above information and recommendation contained in this data sheet are based on the present state and best of our knowledge and belief. Our suggestion does not release you from the obligation to check its validity and to test our products as to its suitability for the intended process and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical guidelines are beyond of our control, and, therefore, entirely