

# Luminophore BBN CONC

## *Optical Whitener For Cellulosic Fibres*

Luminophore BBN Conc gives excellent results in a very wide range of applications.

**Appearance** Luminophore BBN Conc is a pale yellow powder.

**Solubility** It is soluble upto 150 g/l in boiling condensed water giving a clear and almost colourless solution.  
Solutions of 1 g/l Luminophore BBN Conc have a pH of 8.5 - 10.5.

**Affinity** With the addition of glauber's salt Luminophore BBN Conc exhausts very well on to all cellulosic fibres, giving neutral to bluish white effects. Without glauber's salt exhaustion is somewhat reduced and depends on the electrolyte content of the bath. Luminophore BBN Conc exhausts from both alkaline and acid baths and also from resin finish and hydrogen peroxide bleach baths, giving a good yield and a neutral bluish shade.

Luminophore BBN Conc has slightly less affinity for regenerated cellulose than for cotton. Leveling is good in all applications.

**Shade** The shade of white effects obtained in hot liquors is bluish. A shaded product containing a tinter for bright blue effects is also available.

**Fastness Stability** The fastness of the white effect and the stability of Luminophore BBN Conc is listed in the table at the end of the circular.

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 far less extent, copper compounds impair the white effect and treatment may be carried out on machines of these metals only if the surfaces have been rendered inert.

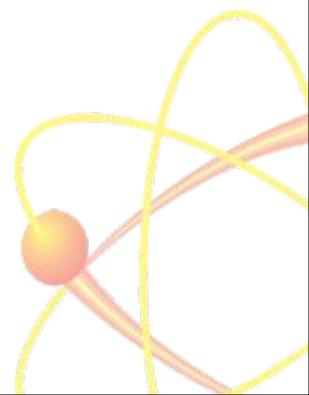
If there is any risk of iron or copper compounds reaching the whitening bath it is advisable to add a chelating agent. Solutions of Luminophore BBN Conc is sensitive to light. Stock solutions must, therefore, be kept away from light.

**Application** Cellulosic fibres can be treated with Luminophore BBN Conc at practically all stages of manufacture in acid and alkaline baths.

Softening: Non-ionic softener has the least effect on whitened articles. This may be applied either with Luminophore BBN Conc or separately as an after treatment.

Cationic softeners weaken the white effect slightly but this can usually be compensated by increasing the amount of Optical Whitening Agent.

A few trial applications should be made to establish the quantity best suited.



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**Stripping** To remove the slight brownish shade which occurs and to avoid any subsequent yellowing it is advisable to give the goods a final mild peroxide bleach containing an anionic detergent. If the goods are to be optically whitened again most of the Luminophore brands for cellulosic fibres can be added to this bath.

### **METHODS OF APPLICATION :**

#### **Exhaustion (10-30:1)**

Luminophore BBN CONC	%	0.05 - 1.0 owf
Glauber's Salt Calc.	g/l	1-5
Temperature	°C	20-85
optimum pH	pH	3-11
time	min	20

#### **Padding**

Luminophore BBN CONC	g/l	0.2-3.0
temperature	°C	20-40

#### **Bleach Bath**

Hydrogen peroxide	g/l	4-8
Luminophore BBN CONC	%	0.05-1.0 owf
Temperature	°C	60
Time	min	45

#### **Dye Bath**

Luminophore BBN CONC	%	0.05 - 0.6 owf
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anionic and non-ionic auxiliaries have no adverse effect.

#### **Printing and Discharge**

Luminophore BBN CONC	g/kg	1-2
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#### **Washing**

Luminophore BBN CONC	%	0.05 - 0.6 owf
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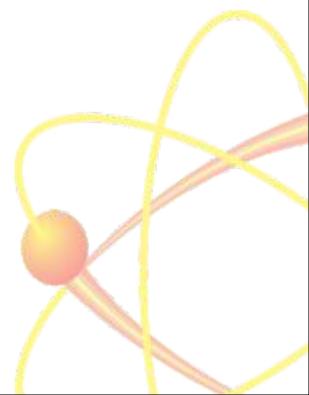
### **FINISHING AT THE PAD**

(cationic finishes affect the whitening and its fastness properties)

Luminophore BBN CONC	g/l	0.2 - 3.0
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Gives very good results with crease resist finishes.

Preliminary trials are recommended since certain catalysts impair the light fastness.



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## **FASTNESS PROPERTIES : -(Luminophore BBN CONC on the fibre)**

light	good
washing:test (60° C)	very good
washing:test (95° C)	very good
chlorine	very good
alkali	good
acid	good
perspiration	good
heat (e.g. sanforizing)	good

## **STABILITY : (Luminophore BBN CONC in the bath)**

hydrogen peroxide	very good
sodium chlorite	moderate
chlorine pH 11	fairly good
alkali	very good

(Our publications are intended to render information on the best possible application of our products. Recommendations are given according to our best knowledge and belief, but without engagement.)

**UNITED Ventures**  
ventures.united@gmail.com



53, Siddhivinayak, SP-19/20, N.S. Road No. 7  
JVPD Scheme, Vile-Parle (W), Mumbai - 400 049  
Tel. : 91 - 22 - 2670 1144 • 91 - 21 - 2670 1155

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