

# Luminophore BRU LIQ

## *Optical Whitener For Cellulosic Fibres*

Luminophore BRU Liq gives excellent results in a very wide range of applications.

**Appearance** Luminophore BRU Liq . is a Light Brown yellow liquid.

**Solubility** Luminophore BRU Liq . is totally miscible with water.

Solutions of 1 g/l Luminophore BRU Liq have a pH of 8.5 - 10.5.

**Affinity** With the addition of glauber's salt Luminophore BRU 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 BRU 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 BRU 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 a neutral white. If a shaded product containing a tinter for bright blue effect is required, Luminophore BBN Conc Blue is recommended.

**Fastness Stability** The fastness of the white effect and the stability of Luminophore BRU 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 BRU are sensitive to light. Stock solutions must, therefore, be kept away from light.

**Application** Cellulosic fibers can be treated with Luminophore BRU at practically all stages of manufacture in acid and alkaline baths. Due to its medium to low affinity it is particularly suited for padding.

Luminophore BRU Liquid is particularly suitable for application in crease-proof finishing liquors, primarily in reactant finishes. They give very good brilliant white effects. These products are fully effective upto pH3 in reactant liquors containing magnesium chloride as catalyst, and pH 5 with zinc chloride. If the goods have been cured with a catalyst containing nitrates, they have to be washed carefully to avoid strong brown discolorations on exposure to light.

Luminophore BRU Liquid give very good white effects in peroxide bleaching by the cold pad-batch method. The material (cotton knitted or woven goods) is padded with the bleach liquor, then plaited down or batched up, and after storage for 8 - 36 hours, rinsed neutralized, if necessary, and dried. The batching time depends upon the nature of the goods and upon the required standard of whiteness. This process can, however, only be successful if all the cotton husks are removed by this treatment.

The Luminophore BRU brands are also extremely suitable as an addition to discharge pastes for optical whitening.

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

# Luminophore BRU Liquid

## Optical Whitener For Cellulosic Fibres

**Stripping** To remove the slight brownish shade which occurs and to avoid any subsequent yellowing it is advisable to give the goods 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 BRU Liquid	%	0.10 - 1.20 owf
Glauber's Salt Calc.	g/l	1-5
Temperature	°C	20-85
optimum pH	pH	3-11
time	min	20

#### Padding

Luminophore BRU Liquid	g/l	2.00 - 8.00
temperature	°C	20-40

#### Bleach Bath

Hydrogen peroxide	g/l	4-8
Luminophore BRU Liquid	%	0.10-1.20 owf
Temperature	°C	60
Time	min	45

#### Dye Bath

Luminophore BRU Liquid	%	0.10 - 0.60 owf
anionic and non-ionic auxiliaries		
have no adverse effect.		

#### Printing and Discharge

Luminophore BRU Liquid	g/kg	0.3 - 0.6
------------------------	------	-----------

#### Washing

Luminophore BRU Liquid	%	0.20 - 1.20 owf
------------------------	---	-----------------

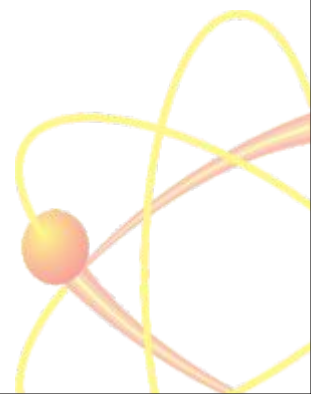
### FINISHING AT THE PAD

(cationic finishes affect the whitening and its fastness properties)

Luminophore BRU Liquid	g/l	2.0 - 8.0
------------------------	-----	-----------

Gives very good results with crease resist finishes.

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



# Luminophore BRU Liquid

*Optical Whitener For Cellulosic Fibres*

## **FASTNESS PROPERTIES : -(Luminophore BRU Liquid 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 BRU Liquid in the bath)**

hydrogen peroxide -bleaching liquors	very good
sodium chlorite - bleaching liquors	not stable
Reductive bleaching liquors (hydrosulfite base)	good
alkali	very good
acids	not stable
below	pH 3.5

(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

The information given herein and otherwise supplied to users is based on general experience and where applicable, on the results of tests on samples of typical manufacture. However, because of the many factors which are outside our knowledge and control which can affect the use of these products, we can not accept liability for any injury, loss or damage resulting from reliance upon such information