Luminophore BBU 250%

Optical Whitener For Cellulosic Fibres

Luminophore BBU 250% gives excellent results in a very wide range of applications.

Appearance Luminophore BBU 250% is a yellow powder.

Solubility Luminophore BBU 250% is soluble upto 300 g/l in boiling condensed water giving a clear and almost colourless solution. On cooling 150-200 g/l is retained in solution.

Solutions of 1 g/l Luminophore BBU 250% have a pH of 8.5 – 10.5.

Affinity With the addition of glauber's salt Luminophore BBU 250% 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 BBU 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 BBU 250% 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 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 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 BBU 250% are sensitive to light. Stock solutions must, therefore, be kept away from light.

Application Cellulosic fibres can be treated with Luminophore BBU 250% at practically all stages of manufacture in acid and alkaline baths. Due to its medium to low affinity it is particularly suited for padding.

Softening: Non-ionic softener has the least effect on whitened articles. This may be applied either with Luminophore BBU 250% 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.

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.

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METHODS OF APPLICATION :

Exhaustion (10-30:1)

Luminophore BBU 250%	%	0.03 - 0.35 owf
Glauber's Salt Calc.	g/l	1-5
Temperature	°C	20-85
optimum pH	pH	3-11
time	min	20

Padding

Luminophore BBU 250%	g/l	0.50 - 2.25
temperature	°C	20-40

Bleach Bath

Hydrogen peroxide	g/l	4-8
Luminophore BBU 250%	%	0.03-0.35 owf
Temperature	°C	60
Time	min	45

Dye Bath

Luminophore BBU 250%	%	0.03 - 0.25 owf

anionic and non-ionic auxiliaries have no adverse effect.

Printing and Discharge

Luminophore BBU 250%	g/kg	1.0 - 2.0

Washing

Luminophore BBU 250%	%	0.05 - 0.35 owf

FINISHING AT THE PAD

(cationic finishes affect the whitening and its fastness properties)

Luminophore BBU 250%	g/l	0.5 - 2.5

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 BBU 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 BBU 250% 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 4.5

(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.)

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