

LUMINOPHORE BBN CONC

(Fluorescent whitening agent with a neutral to bluish cast for cellulosic fibres and their blends)

Uses

Fluorescent whitening agent for cellulosic fibres and their blends for application at all stages of wet processing

Characteristics	Benefits
Medium affinity product	Excellent leveling in exhaust application, no tailing effect in continuous application
High bath exhaustion	Low waste water pollution
Excellent build up	Brilliant whiteness in both exhaust as well as continuous processes
Good stability to alkalis, peroxide and electrolytes	Possibility to combine application in a wide range of processes
Excellent stability to reducing agents	Possibility to combine in discharge printing process as well as reductive bleach process

Properties

Chemical character:	Stilbene derivative
Ionic character:	Anionic
Appearance:	Yellow powder
Storage stability:	LUMINOPHORE BBN Conc. is stable up to 3 years when properly stored in closed containers at 20°C.
Ecology/Toxicology:	The usual hygiene and safety rules for handling chemicals must be observed in storage, handling and use. Product must not be swallowed. For further information please consult the existing safety data sheet.

Stability

pH Stability	5.5 – 12
Hard water	Up to 20° German hardness
Electrolytes	Very good
Peroxide bleach	Very good
Reductive bleach	Very good
Chorite bleach	Not stable
Chlorine bleach	Not stable
Alkali	Very good
Acid	Very good

Fastness Properties

			CEL
Light		ISO 105-B02	3 - 4
	40 °C	ISO 105-C06/A1S	5
Washing	60 °C	ISO 105-C06/C1S	5
	95 °C	ISO 105-C06/E2S	4
Chlorine bleach	mild	ISO 105-N01	5
	severe		4
Chlorite bleach	mild	ISO 105-N03	1
Alkali		ISO 105-E06	5
Acid		ISO 105-E05	5
Perspiration	alkaline	ISO 105-E04	5
	acid		5
Dry heat	30 s / 180 °C	ISO 105-P01	5

Application

Exhaust application: For neutral or alkaline baths without or - particularly for regenerated cellulose – with electrolyte. Preferred application is in conjunction with alkaline peroxide bleach or reductive bleach at high temperature.

Continuous application: With pad steam peroxide bleach with a small liquor trough, water or with compatible finishing agents at pH above 6 or in a wash whitening process.

Dissolving / Diluting:

Dissolve by pouring on hot water, boil up briefly with live steam if necessary

Stock solutions should be kept away from light.

Required amount of***LUMINOPHORE BBN CONC***

Exhaust application	0.2 – 0.5%
Peroxide bleach impregnation, liquor pick-up about 80 – 100%	1.5 – 5 g/l
Wash whitening process	1.5 – 5 g/l

Leveling/stripping

1 – 2 g/l Strong dispersing agent e.g. Satamol WS (BASF)

Treat for 45 - 60minutes at 80 - 90°C

To freshen up the whiteness and avoid subsequent yellowing, hydrogen peroxide or stabilized sodium hydrosulphite should be added. Re-whitening can be carried out with LUMINOPHORE BBN CONC or other products in the LUMINOPHORE range which are suitable for cellulosic fibers.

LUMINOPHORE BBN CONC can be radically stripped from cellulosic and PA fibres using sodium chlorite bleach

Notes

LUMINOPHORE BBN CONC has slightly less affinity for regenerated cellulose than for cotton, 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.

When the fabric treated with LUMINOPHORE BBN Conc. is acidified the shade may tend to yellow but this can be remedied by a weak alkaline rinse, which brings back the original bright shade.

Attention

Our technical data sheets provide directions for the application possibilities of our products. Our recommendations are in line with our present state of knowledge and do not provide any guarantee. Therefore initial internal bulk trials are absolutely necessary and are at user's sole responsibility. The manufacturer is not liable for damages due to improper application or application against our explicit recommendations.

Statutory provisions and standard regulations must be observed when handling processing agents. For additional detailed information please refer to the product specific safety data sheet.

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