

LUMINOPHORE BRU LIQ

(Fluorescent whitening agent for cellulosic fibres and polyester /
cellulosic blends)

LUMINOPHORE BRU LIQ**Fluorescent whitening agent for cellulosic fibres and polyester / cellulosic blends****Uses**

Fluorescent whitening agent with a reddish violet shade for cellulosic fibres and their blends for application at all stages of wet processing

Characteristics	Benefits
Liquid, pumpable formulation, miscible with water in all proportions	Simple handling, suitable for automatic dispensing units
Low to medium affinity product	Highly suitable for exhaust application, Suitable for exhaust as well as continuous applications. No tailing and excellent leveling properties
Good stability in acidic bath	Suitable in conjunction with resin bath.
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:	Yellowish liquid
Storage stability:	Luminophore BRU Liq. is stable up to 2 years when properly stored in closed containers at 20°C. Product is sensitive to cold below 0°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	3.5 – 12
Hard water	Up to 30° 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	4 - 5
	95 °C	ISO 105-C06/E2S	3 – 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 with addition of electrolyte. Preferred application is in conjunction with alkaline peroxide bleach or reductive bleach at high temperature.

Continuous application: In neutral to acidic bath along with cross-linking agents in finishing liquors (pH 3.5). In continuous bleach process product can be used in the wash-whitening process.

Dissolving / Diluting:

Miscible with cold and hot water in all proportions

Stock solutions should be kept away from light.

Required amount of

LUMINOPHORE BRU LIQ

Exhaust application	0.2 – 1.0%
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Peroxide bleach impregnation, liquor pick-up about 80 – 100%	2 – 12 g/l
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White discharge (preliminary trials should be carried out due to different ingredients used in print paste)	2 – 8 g/kg
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Padding – Liquor pick up 70%	2 – 8 g/l
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When used in exhaust process it is advisable to treat the fabric with the fluorescent brightener at high temperature > 80°C along with addition of electrolytes

Leveling/stripping

1 – 2 g/l	Strong dispersing agent e.g. Setamol WS (BASF)
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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 BRU LIQ. or other products in the LUMINOPHORE range which are suitable for cellulosic fibers. LUMINOPHORE BRU LIQ. can be radically stripped from cellulosic fibres using sodium chlorite bleach

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.

Contact

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