

TECHNICAL LITERATURE

LUMINOPHORE SFB-450%

(Fluorescent Whitening Agent for Polyester fibres and their blends)

Chemical Basis	Aqueous dispersion of styrylbenzene derivative
Ionicity	Non-ionic
Form	Bluish to Green dispersion
PH of a 10% dispersion	4.5 to 5.5
Dispersion Properties	Miscible in cold water in all proportions
Shelf life	When stored in its original sealed container, LUMINOPHORE SFB-450%, has a self-life of about 1 year.
Light fastness	5 - 6

Special Properties

- Economical without compromise in whiteness
 - **Excellent whiteness in the exhaust process at 95° C (even without addition of a carrier).**
 - LUMINOPHORE SFB-450%, as dispersed in water, is neutral and stable to acids and alkalis, giving good optical whitening effect at a wide range of pH value (3.0 to 9.0)
 - LUMINOPHORE SFB-450% has an inherent bluish to Green hue depending on the amount added.
 - LUMINOPHORE SFB-450% has excellent fixation properties even at low temperatures.
 - LUMINOPHORE SFB-450% exhausts completely onto polyester fibers at the boil. Addition of carriers or raising temperature can enhance the degree of whiteness.
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NOTES ON APPLICATION

Exhaust application

Excellent whiteness is obtained with LUMINOPHORE SFB-450% at 98° C, even without the addition of a carrier. Optimum

whiteness can be achieved at temperatures ranging between 105° C and 120° C for 30 minutes

At 98° C without carrier process 0.1% to 0.6% LUMINOPHORE SFB-450%
HT process (15 - 30 min @ 130° C) 0.2% to 1.2% LUMINOPHORE SFB-450%

Continuous process (Pad Thermosolling)

LUMINOPHORE SFB-450% produces an excellent brilliant white effect at thermosol temperatures of 170° C to 210° C 15 to 30 seconds

Curtains 2 to 10 g/l LUMINOPHORE SFB-450%
Knitted fabrics 2 to 10 g/l LUMINOPHORE SFB-450%

AS IS THE CASE WITH ALL DISPERSIONS, LUMINOPHORE SFB-450%, MAY TEND TO SETTLE DOWN ON PROLONGED STORAGE. IN SUCH A CASE, SIMPLE STIRRING SHALL RETURN THE PRODUCT TO ITS ORIGINAL FORM.

This information is submitted on our current knowledge and experience. These guiding recopies do not relieve the processors from carrying out their own trials, tests and experiments; nor do they imply any legally binding assurances of our product and its properties.

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