GOLDBLANC E3VD

Optical brightener for polyester fibers with violet shade.

Features and Benefits:

- Optical brightener for polyester substrates and their blends with cellulosic fibers, for use in exhaustion and pad-thermofix (impregnation-thermal development) processes.
- Excellent whitening effect with violet shade.
- Strong fixing power, allowing relatively low development/fixing temperatures.
- In case of polyester/cellulosic fibers blends, Goldblanc E3VD can be applied before, after or in the bleaching bath with hydrogen peroxide.
- The product has good stability if it is stored according to SDS guidelines. Avoid sudden changes of temperature.

Physicochemical parameters:

Aspect	Blue liquid.
Chemical Nature	Methoxystilbene derivate.
Ionic character	Nonionic.
Relative density (g/cm³, 25°C)	≈ 1.060
pH (such as, 25°C)	3.0 – 5.0
Solubility (sol. 10% w/w)	Soluble at 25°C, under stirring.
Compatibility	Compatible with anionic and nonionic products, however it is recommended previously tests.
Fastness properties	See table below.

Fastness properties			**PES**
Light		**ISO 105-B02**	5 – 6
Laundering *	**40°C**	**ISO 105-C06/A1S**	5
	60°C		5
	95°C	**ISO 105-C06/E2S**	5
Perspiration	**Alkaline**	**ISO 105-E04**	5
	Acid		5
Dry Heat	**30s / 180°C**	**ISO 105-P01**	5
Oxides of nitrogen	**1 cycle**	**ISO 105-G04**	5
	2 cycles		5

* The grading of fastness is kept even the wash bath has a reductive bleaching agent (sodium hydrosulfite) or oxidizing agent (hydrogen peroxide).

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Application:

The product can be applied by exhaustion process in acid, neutral o alkaline bath and in bleaching with hydrogen peroxide.
Golblanc E3VD can be applied continuously by pad-thermofix or pad-steam process, indicated for print background or total bleaching.

Polyester and their blends:

In exhaustion process, Goldblanc E3VD shows a reasonable whiteness degree at boiling temperature. A suitable diffusion accelerator promotes the bath exhaustion particularly the brightener development in the fabric at low temperature, but it does not affect light fastness. The highest whitening effects are obtained in HT (110 – 130°C) conditions. The optimal development temperature in pad-thermofix process is between 180 – 205°C with fixing time around 30 s. Due to its very high fastness to dry heat, Goldblanc E3VD can be applied at high temperatures without harming the whiteness degree as long as the white base (chemical white) is stable enough to heat, however residual lubricants or finishing agents may can cause yellowing.

Dissolution / Dilution	Stable dispersion without sedimentation. To preserve its stability, the dispersion should not be boiled. Stock solutions can be prepared, but should be stirring before use. Stock solutions should be kept away from light, also treated substrates with the optical brightener without fixing should be protected from light.
Recommendation for use: **PES**	**- Exhaustion:** 0.1 – 0.4% Goldblanc E3VD. **- Pad-thermofix, pad-steam:** 1.0 – 6.0 g/l Goldblanc E3VD. Pick-up 40 – 90%.
PES/CEL	**- Exhaustion:** 0.05 – 0.3% Goldblanc E3VD. **- Pad-thermofix, pad-steam:** 0.5 – 4.0 g/l Goldblanc E3VD. Pick-up 40 – 90%.

Recipe suggested:

Exhaustion - PES	- 0.1 – 0.4% Goldblanc E3VD. - pH 5 – 7 (with acetic or formic acid). - Time / Temperature: 30 – 60 minutes at 130 – 105°C. - Liquor ratio: 8:1 – 20:1.
Pad-thermofix process - PES	- 1.0 – 6.0 g/l Goldblanc E3VD. - 0 – 2 g/l Goldpal BSJ. - Impregnation: pick-up 40 – 80%. - Dry. - Thermofix: 40 – 20 seconds at 180 – 200°C.

For a specific end use (for example curtains), the optical brightener impregnation can be done in presence of suitable softeners, anti-static agents and anti-slipping agents.
A right pre-washing process ensures a minimum yellowing of the white base (chemical white) during thermofix.

Pad-steam Process (for printing)	- 1.0 – 6.0 g/l Goldblanc E3VD. - 0 – 2 g/l Goldpal BSJ.

	- Impregnation: pick-up 60 – 80% - Dry - print - dry - Steam: 2 – 8 min. at 190 – 160°C (saturated steam) or 20 – 30 min. (pressurized steam)

For data of security, ecological and toxicological, see the Safety Data Sheet (SDS).

Note: Given the variety of substrates and applications processes, the information provided with fidelity should be understood as a guidance tool, therefore we cannot be responsible for any damages resulting from an inappropriate use. The data contained in this technical informative are based on current knowledge and applications of our products performed. Additional information can be obtained from our technical department. Review: 06/08/2018.