

SUNWHITE GL

SUNWHITE GL is Optical Brightening Agent with brilliant neutral bluish for polyester and its Polyester blended fabrics. Especially, it is suitable to get the high brilliant whiteness.

Special Properties

- Suitable in the hot press dyeing and especially good at continuous dyeing.
- Good sublimation fastness.
- Excellent brilliant whiteness dyeing result.
- Good levelling result in the hot press dyeing.
- Wide range dyeing temperature 100°C - 130°C
- Higher temperature better whiteness

General Properties

APPEARANCE	Ivory Liquid
CHEMICAL STRUCTURE	Styrylbenzene Derivative
IONIC CHARACTER	Nonionic pH (1% solution) Approx 7.5
SPECIFIC GRAFITY	Approx 1.0

Storage

SUNWHITE GL has has good stability to long term storage. However, once opened, keep the product in a cool and dark place to avoid direct contacting with air and sunlight.

APPLICATION

The product can be applied by exhaust process from weakly acid, neutral or alkaline baths, as well as in hydrogen peroxide bleach. SUNWHITE GL can be applied continuously by the pad-bake process and by pad-steam systems, suitable for printing and bleaching Polyester. Suitable carriers promote bath exhaustion and particularly development of the OBA on the fibre. Preliminary trials are necessary, as carriers may impair the light fastness. The highest white effects are obtained under HT conditions (100 - 130°C)

Disolving/Diluting

The product must be carefully stirred before removal the container and is advisably diluted before use with about 10 times its weight of cold soft water or preferably with warm soft water at 40 - 50°C. To preserve its stability, the dispersion must not be boiled up. Stock solutions can be prepared , but must be stirred before use. Stock solutions should be kept away from light, also substrates treated with the whitening agent as long as it is not fixed.

Required Amount

SUNWHITE GL

PES

Exhaustion	0.1 - 1.5 %
Pad-bake - pad-steam process	2.0 - 15.0 g/l
Liquor ratio	40 - 90 %

PES/CEL

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Liquor ratio	40 - 90 %

Suggested recipes - POLYESTER

Exhaust process

SUNWHITE GL	0.1 - 1.5 %
MILENQUEST PS	0.5 - 2.0 g/l pH 5 - 7 (with e.g. formic acid)
LIQUOR RATIO	10:1 - 20:1
HEAT-UP TIME	20 - 30 Minutes
TEMPERATURE RANGE	100 - 130 °C
TREATMENT TIME	30 min

The goods can be treated with suitable softening agents in the final rinsing bath.

One Stage Brightening with Relaxing Process (Desizing & Creeping)

SUNWHITE GL	0.1 - 1.0 %
MILENQUEST PS	1.0 - 2.0 g/l
MILENSCOUR LF	0.5 - 2.0 g/l
MILENLUBE DT-X	1.0 - 2.0 g/l pH 7 - 12 (Depend on Sizing Agent)**
TEMPERATURE RANGE	100 - 130 °C
TREATMENT TIME	30 - 60 Minutes
LIQUOR RATIO	10:1 - 20:1

Over flow is advisable after treatment process to avoid sized precipitation

** pH range of best sized removability

POLYACRYLATES	About 12
PES-POLYMERISATES	7.5 - 9.5
POLYVINYL ALCOHOLS	7.0 - 8.0

Pad-bake process

SUNWHITE GL	2.0 - 15.0 g/l
MILENQUEST PS	1.0 - 5.0 g/l
MILENWET SF-F	0.5 - 1.0 g/l
Padding Liquor pick up	40 - 80 %
Drying	100 - 120 °C
BAKING/DEVELOPING	30 - 40 Second at 170 - 190°C

For specific end - use (e.g. net curtains), padding can be carried out in presence of suitable soft handle, anti static and non slip agent. A proper pre - washing process ensures minimal base white yellowing during baking.

Suggested recipes - POLYESTER / CELLULOSE

The polyester component should be optically brightened by the methods recommended for polyester. The cellulose component is usually whitened separately afterwards, e.g. in the peroxide bleach or more often in combination with finishing. Besides multi - stage method, one - stage processes are also used in which both fibers are optically brightened at the same time, e.g. during bleaching and finishing.

One stage brightening of polyester / cotton in peroxide bleach

Exhaust process

SUNWHITE GL	0.1 - 1.0 %
SUNWHITE CH-N Series	0.1 - 0.3 %
HYDROGEN PEROXIDE	2 - 8 ml/l
MILENSCOOUR COM	1 - 3 g/l
COUSTIC SODA 100%	0.5 - 2 g/l
LIQUOR RATIO	10:1 - 20:1
TEMPERATURE RANGE	100 - 120 °C
HEAT UP/TREATMENT TIME	30 - 40 / 30 - 60 min

One stage finishing / brightening of polyester / cottonPad - bake process

SUNWHITE GL	2 - 15 g/l
SUNWHITE CM-N	3 - 12 g/l
MILENSTIF EM	0 - 20 g/l
MILENSOFT SF-W	20 - 40 g/l
MILENWET SF-F	1 g/l
ACETIC ACID 80%	0.5 - 1 g/l
Padding Liquor pick-up	60 - 70 %
DRYING CURING	15 - 45 second at 170 - 190°C

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