TUBOBLANC COL®

Character	Optical brightener for cellulose and polyamide fibres, wool and silk
Chemical character	Stilbene derivative
Appearance	Yellow powder
Ionic character	Anionic
pH-Value of a 1 % solution	9.0 - 10.0
Apparent density	Approx. 0.8 g/ml
Stabilities	Hypochlorite bleach: instable Chlorite bleach: instable Peroxide bleach: very good Hydrosulphite bleach: good Stability to water hardness: good up to 25 °dH (German hardness) Stability to electrolytes: very good pH: 6.0 - 12.0 Acid stability: instable Alkali stability: very good TUBOBLANC COL is not sensitive to frost.

The above given values are product describing data. Please consult the 'delivery specification' for binding product specifications. Further data about product properties, toxicological, ecological data as well as data relevant to safety can be found in the safety data sheet.

Properties

TUBOBLANC COL is a highly affinitive brightener which allows for very brilliant, blue-tinged white shades through the addition of dyestuff. The dyestuff is not destroyed by peroxide. Shade deviations may occur in reductive bleaching processes depending on the recipes with reduction agents.

Application technique

Diluting instructions

TUBOBLANC COL is dissolved by pouring the 30 to 40 fold amount of hot water (> 80°C) over it. Diluted solutions or stock solutions must be protected from direct light.

® = registered trade mark

Fields of application

TUBOBLANC COL brightens cellulose fibres, polyamide, wool and silk. Cellulose, wool and silk are preferably brightened in discontinuous long liquor procedures because of the affinity behaviour of TUBOBLANC COL. For polyamide fibres it is also possible to use continuous procedures such as pad-steam or pad-roll.

Recipe Proposals

Depending on the application amount TUBOBLANC COL produces a highly shaded white. If a very strong white or/ and a less strong shade is desired, TUBOBLANC COL is to be used with a smaller application concentration combined with a high affinity product such as TUBOBLANC HA for brightening cotton and polyamide.

Cellulose fibres (except cellulose acetate)

Exhaust method

0.2 - 1.0 %	TUBOBLANC COL

30 min at 50 °C
wash out warm

Discontinuous peroxide bleach

The good peroxide stability allows for one-bath bleaching and optical brightening:

0.5 %	CONTAVAN GAL
1.0 %	FELOSAN JET
1.0 - 2.0 %	NaOH 100 %
5.0 - 8.0 %	H_2O_2 35 %
0.2 - 1.0 %	TUBOBLANC COL

60 min at 98 °C
wash out hot and cold

Polyamide fibres

Exhaust method

0.5 - 1.5 %	TUBOBLANC COL
0.5 - 1.0 %	FELOSAN JET
0.25 - 0.5 %	acetic acid
	pH > 6.0

30 min at 98 °C
wash out hot and cold

Application in reductive bleaching baths

0.5 - 1.5 %	TUBOBLANC COL
0.5 - 1.0 %	FELOSAN JET
3.0 g/l	reduction agent based on hydrosulphite

30 min at 60 - 98 °C
wash out hot and cold

Pad-Steam process (perhaps prewashing)

2.0 - 5.0 (max.)	g/l TUBOBLANC COL
3.0 - 5.0	g/l FELOSAN JET
5.0 - 20.0	ml/l reduction agent based on hydrosulphite
	or
1.0 - 2.0	ml/l acetic acid
	pH > 6.0

Impregnation, liquor pick-up: 60 - 80 %
steam for 2 - 5 min
wash out hot and cold

Pad-Roll process (perhaps prewashing)

2.0 - 5.0 (max.)	g/l TUBOBLANC COL
3.0 - 5.0	g/l FELOSAN JET
5.0 - 20.0	ml/l reduction agent based on hydrosulphite
	or
1.0 - 2.0	ml/l acetic acid
	pH > 6.0

Impregnation, liquor pick-up: 60 - 80 %
dwell for 45 - 60 min at 98 °C
wash out hot and cold

Wool and silk

Wool and silk are preferably optically brightened after peroxide bleaching in the reductive bleaching bath.

0.5 - 1.5 %	TUBOBLANC COL
3.0 g/l	reduction agent based on hydrosulphite

30 min at 60 °C
wash out warm

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

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