

®
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.

Storage On proper storage in closed original containers, the product is stable for at least 12 months

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 % H₂O₂ 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.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

Edition: May 2024

CHT GERMANY GMBH, P.O. Box 12 80, 72002 Tübingen, Bismarckstraße 102, 72072 Tübingen, Germany
Telephone: 07071/154-0, Fax: 07071/154-290, Email: info@cht.com, homepage: www.cht.com

CHT TURKEY KİMYA SAN. VE TİC.A.Ş., Akçaburgaz Mah. 3118. Sok. No:2 Esenyurt/İstanbul, Tel: +90 212 886 79 13, Fax:+90 212 886 93 47,

Email: info.turkey@cht.com