



VARIO BLEACH 3E

Meeting varying demands

When we developed VARIO BLEACH 3E we wanted to create one product for numerous demands.

From low temperature bleach up to quality improvement during the HT bleach – with VARIO BLEACH 3E nearly all discontinuous bleaching processes can be created in a simple and expensive way.



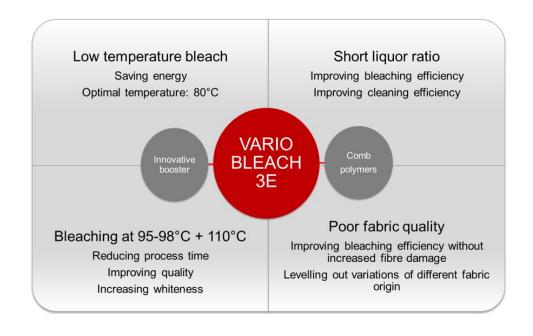
Energy savings by means of low temperature bleach? Many industrial trials proved this. With VARIO BLEACH 3E even full white on cotton can be achieved. The booster in VARIO BLEACH 3E has no impact on optical brighteners.

A standard bleaching temperature the whiteness degree can be increased, and the process time can be reduced with VARIO BLEACH 3E. On different fabric qualities VARIO BLEACH 3E leads to an improved levelness.

Everyone knows that with very short liquor ratios the soiling degree in the bleaching bath is very high. The patented comb polymers integrated in VARIO BLEACH 3E support the cleaning effect.

Compared with many products on the market the booster in VARIO BLEACH 3E does not result in a detectable higher fiber damage.

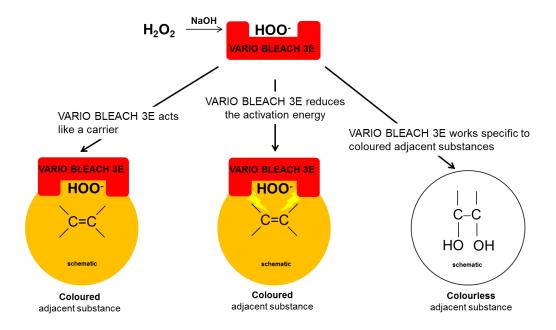
VARIO BLEACH 3E can be very easily integrated in existing bleaching recipes (discontinuous hydrogen peroxide bleach).



Properties

Innovative booster technology

Many classic hydrogen peroxide boosters or activators have a crucial disadvantage since they may lead to a significant fiber damage depending on the process conditions. The innovative booster technology used in VARIO BLEACH 3E has a specific effect on coloured adjacent substances and does therefore not cause any fiber damage.



Special feature: Low temperature bleach for Fullwhite

Many industrial trials proved that it is even possible to achieve a full white on cotton for high demands in the low temperature process.

As a consequence, the bleaching process is not only energy-efficient, but can also be carried out without crease-prevention agents.

0,8 %		
1,5 %		
7,5 %		
60 °C		
2,5 %		
0,6 %		
0,2 %		
70 °C	60 min	•
70 °C	10 min	Ψ
0,6 %		
50 °C	10 min	•
156		
82		
74		
	7,5 % 7,5 % 60 °C 2,5 % 0,6 % 0,2 % 70 °C 70 °C 156 82	1,5 % 7,5 % 60 °C 2,5 % 0,6 % 0,2 % 70 °C 60 min 70 °C 10 min 156 82

Application

VARIO BLEACH 3E is preferably applied in the discontinuous pretreatment of cellulose fibers.

VARIO BLEACH 3E is gentle to the fiber at any bleaching temperature and is applied to increase the efficiency of the bleach.

Pretreatment for colouring	HT bleach	Bleach at 95 - 98 °C	Low temperature bleach
FELOSAN FOX	0.5 - 1.0 %	0.5 - 1.0 %	0.5 - 1.0 %
VARIO BLEACH 3E	0.5 - 1.0 %	0.5 - 1.0 %	1.0 - 1.5 %
NaOH 100 %	1.3 - 1.5 %	1.5 %	2.5 %
H ₂ O ₂ 50 %	2 - 2.5 %	2 - 2.5 %	2.5 – 3 %
Bleaching temperature	110 °C	95 - 98 °C	80 °C
Bleaching time	5 - 15 min	15 - 20 min	30 - 60 min
NEUTRACID NCS	0.5 %	0.5 %	0.5 - 0.7 %
Neutralisation/demineralisation, removal of hardness	60 °C 10 min	60 °C 10 min	60 °C 10 min
CHT-CATALASE BF	0.3 %	0.3 %	0.3 %
Peroxide killer	40 °C 15 min	40 °C 15 min	40 °C 15 min

VARIO BLEACH 3E, BEZAKTIV GO, VARIOSOAPING

CHT/CHT SWITZERLAND offers you a great variety of further products and concepts to optimize your processes. Our technical service will be pleased to advise you.

- ► VARIO BLEACH 3E optimisation of the discontinuous pretreatment
- ► BEZAKTIV GO / VARIOSOAPING dyeing and soaping at 40 °C

