

Gentle Power Bleach™ on cotton and elastane blends—perfect preparation for colorful dyeing

Sustainable enzymatic peroxide bleaching at low temperature and neutral pH in discontinuous application



Gentle and mild conditions for powerful bleaching

Perfect preparation

Even after bleaching at 65 °C and at neutral pH the cotton is perfectly prepared for dyeing all shades. Additional benefits are extremely good fibre protection, no chemical damage on cotton and maintenance of the characteristic elastane properties.

Soft handle

Outstanding soft, bulky and natural handle. Extremely good crease recovery and fabric properties such as sewability, burst strength and stretch.

Brilliant colors

Better color yield with more vivid and intense shades. Excellent fastness properties.

Process optimization: cost savings

Energy and water savings due to very low bleaching and wash-off temperature and less rinsing. Reduced weight loss. No neutralization required. Savings in softening and lubrication.

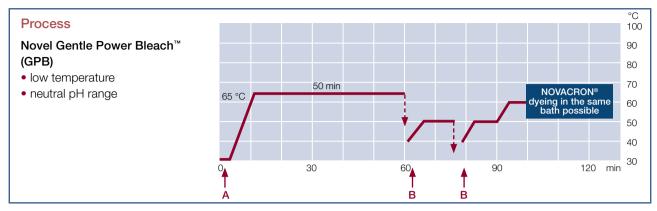
Process optimization: improved reproducibility

No danger of residual alkali, the main cause of faulty dyeings. Less fiber swelling avoids channeling effect in packages. Lower risk of crease marking for piece goods and garments. Improved right first time production.

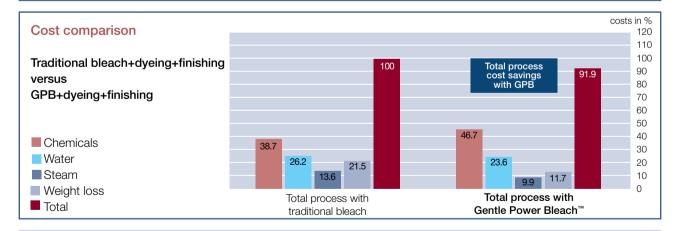
Responsible technology

No harsh chemicals such as caustic soda applied. Reduced salt load in the effluent and lower BOD/COD levels due to less cotton weight loss. Considerable energy and water savings. All Gentle Power Bleach auxiliaries are free of APEO and AOX.

Gentle Power Bleach™, our contribution to a more sustainable textile industry



Recipe Application: Exhaust CO, CO/EL, knitgood, yarn, woven and terry towel Material: Machine: Closed equipment e. g.: Jet, overflow, jig, package dyeing machine ... Low liquor ratio 4:1 -6:1 High liquor ratio 8:1-12:1 CLARITE® LTC Α 2.0 g/l 1.5 INVATEX® LAB or soda ash q/l 7.5 or 3.0 5.0 or 2.0 **INVATEX® LTA** 4.5 3.0 g/l H₂O₂ 35% ml/l 9.0 6.0 INVAZYME® LTE 1.5 g/l 1.0 В INVAZYME® CAT (2x) 0.7 0.5 g/l Process condition: bleaching 50 min at 65 °C, draining, rinsing 2x10 min at 50 °C. Woven and terry towel preparation: add INVAZYME® ADC for starch desizing.



Product overview

CLARITE® LTC Combination product for the low temperature Gentle Power Bleach™ with excellent wetting, detergent and dispersing properties

INVATEX® LTA Agent to assist and boost the peroxide reaction in the Gentle Power Bleach™

INVAZYME® LTE Enzyme for the Gentle Power Bleach™ to catalyse the peroxide bleach in combination with INVATEX® LTA

INVATEX® LAB Liquid buffer system for optimum pH setting and regulating

INVAZYME® CAT Stabilized, liquid catalase-enzyme to remove residual peroxide after discontinuous peroxide bleaching

NOVACRON® Reactive dye ranges NOVACRON® FN and S are recommended for dyeing at 60°C