

Textile Effects

CLARITE ONE—efficient, ecological, economical

The ALL-IN-ONE product for peroxide bleaching processes on cellulosic fibers and their blends





CLARITE ONE

The ALL-IN-ONE solution is

-efficient

- ALL-IN-ONE product enables simple recipes
- Combination product: complexing, dispersing, washing, wetting, rewetting, degreasing, emulsifying and peroxide regulating agent
- Outstanding wetting, rewetting and emulsifying power
- Excellent whitening effects in combination of protection of the fibers against chemical damage
- High stability in reinforced feeding bath
- For silicate- and silicate-free recipes
- · Reduced risk of deposits and scaling on goods and machine parts

ecological

- Meets most sustainable textile standards
- Meets german waste water order/appendix 38
- Containes no antifoam
- APEO-free
- AOX-free
- Saves water, energy and time

-economical

- ONE product predominantly for pad-batch cold peroxide bleach
- Suitable for exhaust and continuous pad-steam processes
- Space saving—fewer products to store
- Reduced sources of errors
- Low foaming, trouble-free running without addition of defoamer
- Cost saving and excellent reproducibility
- Liquid, suitable for automatic dosing systems
- Time saving in dosing

The perfect concept to meet all the essential requirements of today's processing







Innovative recipes for cotton, cellulosic fibers and their blends including elastane:

A. Pad-batch cold peroxide bleach, silicate-free, for cotton woven goods including blends

9-15 ml/l CLARITE ONE 25-35 g/l NaOH 100 % 40-60 ml/l H₂O₂ 35 %

0-5 g/l persulfate (preferably sodium persulfate)

Cold impregnation; pick-up 100 %; 16–24 h batching; continuous boil off; hot wash off; core neutralization and final clearing with INVATEX $^{\circ}$ AC

B. 3-step pretreatment process for full white for cotton woven goods including blends

Step 1: Pad-batch cold peroxide bleach, silicate-free

9–12 ml/l CLARITE ONE 20–30 g/l NaOH 100 % 30–50 ml/l H₂O₂ 35 %

Cold impregnation; pick-up 100%; 16-24 h batching; continuous boil off; hot wash off

Step 2: Pad-steam peroxide bleach

7 ml/kg CLARITE ONE 9 ml/kg 12–20 g/kg NaOH 100% 6–10 g/kg 30–50 ml/kg H₂O₂ 35% 20–40 ml/kg 3–2 min steaming 20–10 min

Cold impregnation; x min steaming; hot wash off; core neutralization and final clearing with INVATEX® AC

Step 3: Pad-dry whitening on stenter

15–24 g/l UVITEX® MST LIQ 0–40 g/l ULTRATEX® FMW

Cold impregnation; pick-up 50-90 %; drying at 110-130 °C for 60-30 sec

C. Discontinuous peroxide bleach on cotton knitgoods, woven goods and yarn including blends

1.0–1.5 ml/l CLARITE ONE 1.0–2.5 g/l NaOH 100 % 2.0–10 ml/l H₂O₂ 35 % Liguor ratio: 5:1–15:1

Temperature: 95–98 °C (or Ultra Bleach: up to 115 °C) Reaction time: 30–60 min (or Ultra Bleach: up to 20 min)

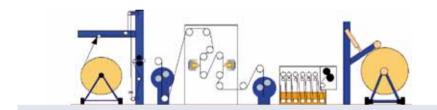
Aftertreatment: Neutralization and elimination of residual peroxide with

INVATEX® AC/INVAZYME® CAT LIQ



Technical data

Chemical constitution	Liquid preparation of complexing/dispersing components mixed with surfactants and peroxide regulating additives, free of APEO
Ionic character	nonionic
pH (10 g/l)	about 5.5
Specific gravity (20 °C)	about 1.1
Stability to alkali	250 g/l NaOH 100%
Stability to oxidants	very good
Viscosity (Rheomat 180)	<500 mPas (21 °C, speed 200)
Conductivity	about 15 mS/cm (20 °C)





Enriching lives through innovation

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