



COLORIQ
The Chemistry Behinds...

COLORCLEAN KG BLUE

Multi-functional detergent having sequestering & peroxide stabilizing power.

Product Information

In order to prepare a quality fabric it is necessary to remove the natural and man-made impurities present in the greige fabric. In case of cotton knitted fabrics, the soil to be removed comprises natural impurities like fats, waxes, pectins, mineral matter etc. as well as added impurities (lubricants) used in spinning the yarn. Achieving good absorbency necessitates the thorough removal of cotton wax, which is located mainly on the fiber surface, forming a very thin layer that prevents adequate wetting of the fiber surface. Due to presence of alkaline earth metal impurities within the cotton fabric, the peroxide bleach on greige material carries with it the risk of a catalytic damage. Secondly, under high alkaline conditions it is difficult to avoid undesirable rapid decomposition of peroxide. Furthermore, high content of heavy alkaline earth metal in the fabric may cause problems in pre-treatment and subsequent dyeing and finishing process. The uncontrolled decomposition of hydrogen peroxide gives rise to OH radicals. These radicals attack the cellulose fiber starting with oxidation of the hydroxyl groups and eventually ending with the cleavage of the cellulose molecules. This reaction is catalyzed by heavy metals such as iron, manganese, copper and cobalt. In order to inhibit these reactions, it is necessary to employ an auxiliary that assist in wetting, emulsification, re-wetting, sequestering and peroxide stabilizing. Such an auxiliary is added to the scouring and

bleaching baths. Colorclean KG Blue is a custom designed product that:

- (i) Sequesters the metals, so that it can finally be eliminated in the final washing-off treatment,
- (ii) Emulsifies the impurities like fats, waxes, pectins, mineral matter etc. present in the fabric and
- (iii) Simultaneously stabilizes the peroxide in order to bleach the fabric in efficient manner

FEATURES

- Low foaming
- Metallic particles are ionized, therefore prohibiting catalytic damage to cellulosic fibers and/or destabilization of peroxide bleaching liquors.
- Excellent stabilizing effect even at bleaching temperatures near the boil
- Excellent scouring agent with rapid wetting action and high cleaning power.
- Removes mineral oil contamination and sizing agents and imparts excellent cleanliness and good absorbency to the material
- Exhibits good compatibility with all enzymes
- Ideal product for combined scouring and bleaching baths.
- Stable in liquors with up to 30g/l caustic soda solid (ca.6°Bé)
- Ecological as it is free from APEO, EDTA, DTPA, NTA, silicates and phosphates.

PROPERTIES

Appearance -----→Pale blue clear viscous liquid

Ph 1% -----→ Approx. 3.5

Ionic nature -----→Non-ionic

Cationics -----→Good

Anionics -----→ Good
 Non-ionics -----→ V.good
 Stability to hard water-----→ Good
 Stability to alkali -----→ Good (upto30g/l)
 Stability to temperatur-----→ Good
 Stability to oxidizing agents ----→ Good

DOSAGE & APPLICATIONS

Combined Scouring & Peroxide bleaching (liquor ratio 1:10)

Add chemicals preferably at 40°C

0.75 – 2 g/l Colorlube AC liquid

1.0 – 1.5 g/l Colorclean KG Blue

3 – 5 g/l Caustic soda 36°Bé

3 – 6 g/l Hydrogen peroxide 35%

Heat to 98°C. Treat at the boil for 45 –60 minutes

Cool to 70°C. Drain Rinse hot for 10 – 20 minutes

at 80°C. Drain Neutralize with

1g/l coloracid AS liquid/Acetic acid for 15 – 20

minutes at 40-60°C. Drain. Remove residual

peroxide with

0.3-0.5 g/l ColorzymBIO-DS (conc) for 15 - 20 mins at 40-

60°C & pH 6-8. Drain

Pad-batch-method

1.0-2.0 g/l Colorlube AC liquid

0.5-1.0 g/l Colorclean OSR liquid

4.0-6.0 g/l Colorclean KG Blue

Pad cold Batch 4 to 6 hrs. at RT. Rinse hot, warm and cold

CAUTION

- 🌍 In case of skin contact, wash with plenty of water.
- 🌍 In case of eye contact, wash with plenty of water and seek medical advice.

PACKING MATERIAL

50KG BAG PACKING.

The storage guidelines for the product

1.Storage Conditions:

- 🌍 Store the product in its original container.
- 🌍 Keep it in a dry, dust-free location at temperatures below 50°C.

2.Ventilation and Compatibility:

- 🌍 Ensure the storage area is well-ventilated.
- 🌍 Keep the product away from incompatible materials (as specified in the Material Safety Data Sheet) and food items.

3.Container Handling:

- 🌍 Seal the container tightly after each use.
- 🌍 Avoid pouring unused material back into the container.

4.Shelf Life:

- The product remains usable for at least 24 months from the date of manufacture.

WORK

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