



COLORIQ
The Chemistry Behinds...

COLORQUEST DM LIQUID

Concentrated demineralizer for cellulosic knit fabric as well as for yarn.

Product Information

The role of Sequestering agents in Textile Wet Processing is widely known. Many of us are aware that the presence of ions of alkaline earth metals (calcium & magnesium) and/or other metals (especially iron) may have important negative effects on various wet processes, not only in pre-treatment but also in dyeing. Purified and softened water is used in textile finishing mills, but this is not enough and specific auxiliary formulations containing complexing agents need to be added to the baths.

Apart from water, cotton is one of the sources of metal impurities. Metal impurities present in the cotton cause major problems in textile wet processing. In order to remove the metal impurities present in cotton, demineralization of the yarn/fabric is the necessary step to be taken. This is also called as 'Protonic Pre-treatment'.

The uncontrolled decomposition of hydrogen peroxide gives rise to OH radicals. These radicals attack the cellulose fibre starting with oxidation of the hydroxyl groups and eventually ending with the cleavage of the cellulose molecules, decreasing the degree of polymerization. This reaction is catalyzed by heavy metals such as iron, manganese, copper and cobalt resulting in pin holes. In order to inhibit these reactions, COLORQUEST DM LIQUID is widely used.

FEATURES

- Metallic particles are ionized, therefore prohibiting catalytic damage to cellulosic fibres and/or destabilization of peroxide bleaching liquors.

- Demineralizes cotton, removes difficult-to-eliminate pigments.
- Performs action of sequesterant for both alkaline earth metals as well for heavy metal ions.
- Acts as buffer and stabilizer in alkaline region
- Replaces organic acids required for neutralization during mercerizing, scour boiling and bleaching operations.
- Replaces the Sodium Hypochlorite bleach before the peroxide bleach with a protonic treatment.

PROPERTIES

Appearance -----→ Colourless to pale yellow clear liquid

Ph 1% -----→ Approx.4.0

Ionic nature -----→ Anionic

Compatibility with

Cationics -----→ Poor

Anionics -----→ Good

Non-ionics -----→ Good

Stability to hard water-----→ Good

Stability to electrolyte -----→ Good

Stability to temperature -----→ Good

DOSAGE & APPLICATIONS

1.Discontinuous protonic treatment for knits

0.5 – 1.5 ml/l Colorquest DM Liquid

0.5 – 1 ml/l Colorclean HPLF Liquid

Treat for 20-30 mins at 40-50°C

2. Continuous Protonic pretreatment by the pad batch method for woven

1 – 4 ml/l Colorquest DM Liquid

0.5 – 2 ml/l Colorclean HPLF Liquid

Pick up 100%

Batch 2 to 4 hrs. at RT, wrapped in plastic foil, 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:

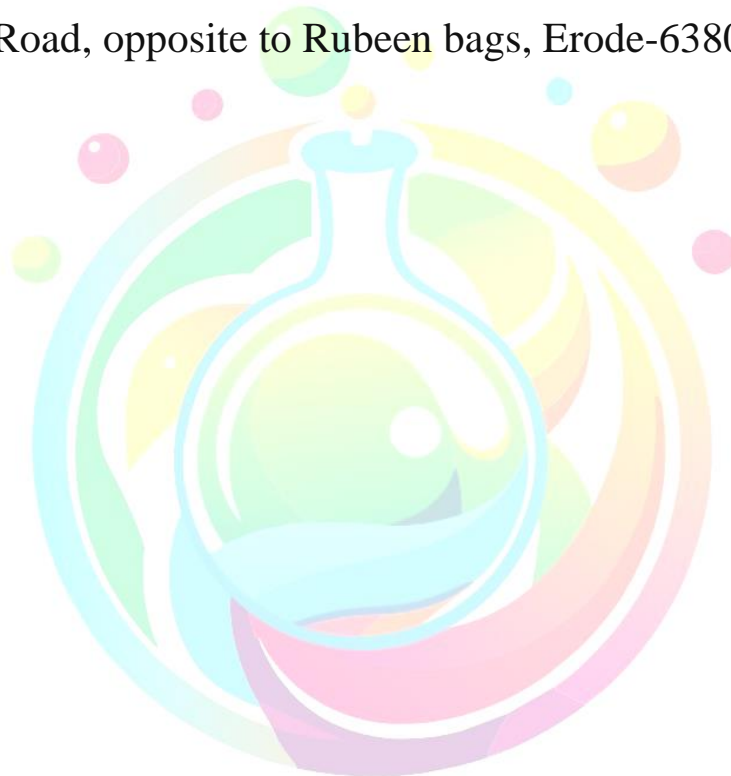
- The product remains usable for at least 24 months from the date of manufacture.

WORK

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