



COLORIQ

The Chemistry Behinds...

COLORZYME BIOPOL -N

Neutral Cellulase Enzyme

Product Information

Colorzyme Biopol-N is a speciality wide range pH enzyme for biopolishing of cellulosic and its blend with polyester. The product is to be used in garment dyeing machines and jet dyeing machines where suitable mechanical action is provided which enhances the action of Colorzyme Biopol-N.

Colorzyme Biopol-N shows minimum strength loss and minimum shade changes as it is applied at acidic to neutral pH.

FEATURES

- Versatile
- Saving in water time
- Controlled action

BENEFITS

- Combined dyeing and biopolishing can be carried out
- Can be applied during dyeing or after dyeing for biopolishing of woven, knit, fabrics & terry towels. Suitable for colour fading for denim garments.
- Minimum strength loss and minimum shade changes of dyed material.

PROPERTIES

Appearance -----→ Yellow liquid.

Ionic nature -----→ Non-ionic.

Ph 1% -----→ 5 +/- 1.

Miscibility-----→ Readily Miscible with water.

Stability -----→ Stable to dilute acids & dilute alkalies.

Compatibility-----→ Not Compatible with strong cationic or anionic products but compatible with non-ionic product.

DOSAGE & APPLICATIONS

- Equipment: Jet dyeing machine or garment dyeing machine.
- Colorzyme Biopol-N: 0.5-1.5% depending on requirement
- pH: 5-6.5
- Temperature: 50-65 deg.C
- Treatment time: 45-60 mins

After the biopolishing treatment, raise the temperature to 70-75 deg.C or adjust pH to 10 to terminate action of enzyme followed by hot wash. The material can then be finished using chemical finishes as usual.

Note:

- Bio-polishing is usually recommended before cationic dye-fixing or finishing.
- Combined bio-polishing and peroxide elimination can be carried out (if peroxide killer is enzyme based) to cotton knits and terry towels prior to dyeing.
- Simultaneously biopolishing and exhaustion of dye at 55-60 deg C can be carried out and when alkali is added then enzyme will be deactivated.

- Solution of Colorzyme Biopol-N should be prepared in water pH 5-6.5 only

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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