



PRODUCT LITERATURE

BIOPOL-N

Product Information

Biopol-N is a speciality wide range pH enzyme for biopolishing of cellulose 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 Biopol-N. Biopol-N shows minimum strength loss and minimum shade changes as it is applied at acidic to neutral pH.

Key Features & Benefits

Key Features	Benefits
Saving in water time	combined dyeing and biopolishing can be carried out
Versatile	Can be applied during dyeing or after dyeing for biopolishing of woven, knit, fabrics & terrytowels. Suitable for colour fading for denim garments.
Controlled action	Minimum strength loss and minimum shade changes of dyed material.

General Characteristics

Physical appearance	Yellow liquid
Ionic nature	Nonionic
pH of 1% solution	5 +/- 1
Miscibility	Readily miscible with water
Compatibility	Not compatible with strong cationic or anionic products but compatible with non-ionic product
Stability	Stable to dilute acids and dilute alkalies

Application

Equipment	- Jet dyeing machine or garment dyeing machine.
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.



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Note:

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- * 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 Biopol-N should be prepared in water pH 5-6.5 only.

Precautions

Storage	Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg c. Close lids firmly to avoid contact with air and moisture.
Shelf Life	9 months from the date of manufacturing, if stored under controlled conditions.