



**aalfa**  
**dyes & chemicals**

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### Technical Information

## **GAMAZYME**

Gamazyme is an enzyme based product for bio-polishing of cellulose and polyester/cellulosic blends. The product is to be used in garment dyeing machine and jet dyeing machines where suitable mechanical action is provided which enhances the action of Biopol-HC.

To avoid excess strength loss of garments and materials after bio-polishing, we recommend deactivation of Biopol-HC after the treatment.

### KEY FEATURES & BENEFITS

#### **Key Features**

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#### **Benefits**

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Versatile

Combined peroxide elimination and bio-polishing can be carried out

Suitable for colour fading for denim garments and bio-polishing of knits, fabrics & terry towels

Controlled action

Minimum shade change in dyed material and minimum strength loss

### GENERAL CHARACTERISTICS

Physical appearance : Dark Brownish Liquid.

Ionic Nature : Nonionic

pH of 1% solution : 5 +/- 1

Miscibility : Readily miscible with water.

Compatibility : Not compatible with strong cationic or anionic products.

Stability : Stable to dilute acids & dilute alkalies.

## **APPLICATION**

Equipment	-	Jet dyeing machine or garment dyeing machine.
Gamazyme	-	0.5-1% depending on requirement
Ph	-	5-5.5
Temperature	-	50-55 deg.C
Treatment time	-	30-60 min.

After the bio-polishing treatment, raise the temperature to 70 deg.C and/or adjust pH to 10 to terminate action of enzyme. The material can then be finished using chemical finishes as usual.

NOTE: Combined bio-polishing and peroxide elimination can be carried out of cotton knits and terry towels prior to reactive dyeing. Bio-polishing is usually recommended before cationic dye-fixation or cationic softening.

## **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**

6 months from the date of manufacturing, if stored under controlled conditions.

*(The above information is given in good faith and is without warranty)*