### G-ZYME BCS CONC LIQUID

A cellulase enzyme preparation to produce a very fast biopolishing effect

<table>
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<th>CONSTITUTION</th>
<th>Cellulase enzyme preparation</th>
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<tbody>
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<td>APPEARANCE</td>
<td>Dark brown liquid</td>
</tr>
<tr>
<td>MISCIBILITY</td>
<td>Miscible in cold water</td>
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<tr>
<td>COMPATIBILITY</td>
<td>Compatible with Biopolishing bath additives</td>
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</table>

**HIGHLIGHTS**

- Highly concentrated product
- Fast biopolishing effect
- Prevents redeposition of fuzz by keeping it in suspension due to additional dispersing property
- Softens the fabric, with excellent fuzz cutting
- Imparts clean and fresh look with brightening effect
- Gives natural and permanent finish on garments
- Operates at a temperature of 55°C and pH of 4.5 – 5.0
- Eco friendly operation

**APPLICATION**

Cellulase enzymes are used for bio-polishing or depilling of cellulosics which improve the fabric quality, often done after heavy processing where pills are raised. Cellulase enzymes weaken the fibres protruding from the surface by degradation, preferably of the amorphous structure of the fibre. The enzyme-weakened fibres are sensitive to shear forces and upon application of sufficient shear the fibre will break from the surface. This results in improved pilling resistance, brighter colours; cleaner surface; improved drapeability and increased softness; reduction in the amount of dead and immature cotton.

**G-zyme BCS Conc Liquid** is biopolishing cellulase but also suitable for fading where high aggression is required.
Effect of application parameters on activity of G-zyme BCS Conc Liquid

Effect of temperature on activity:

- Activity peaks at around 55°C.
- Activity decreases at higher temperatures.

Effect of pH on activity:

- Activity peaks at around pH 4.5-5.0.
- Activity decreases at higher pH levels.

Effect of time on Biopolishing efficiency:

- Biopolishing efficiency increases with time.
- Conventional method shows lower efficiency compared to G-zyme BCS Conc. liq.

GUIDELINES

1. BIO POLISHING
   - Load the garment
   - Add water
   - Raise temperature to 55°C and adjust pH to 4.5-5.0
   - Add
     G-zyme BCS Conc Liq 0.7-1.0 %
     Kleenox LFAF Liquid 0.5 -1.0 gms/lit
   - Run the machine for required time i.e. between 45-60 mins
   - Drain
   - Hot rinse with
     Greenpol A Liquid 1.0 – 2.0 gms/lit at 80°C and pH 8-9
   - Rinse
   - Drain
**STORAGE**  
G-zyme BCS Conc Liquid has to be stored in an air-tight, cool & dry place, away from direct heat and sunlight.

**PACKING**  
G-zyme BCS Conc Liquid is available in 20kg (4 x 5 Kg.) packs and 30 Kg. (30 Kg x 1) packs to suit customers requirements.

**NOTE**  
The colour of the product is not an indication of product strength, it may vary from batch to batch.