



MaxxZyme® CLC Cellulase Enzyme

MaxxZyme CLC is a highly concentrated liquid catalase enzyme used to remove residual hydrogen peroxide after bleaching operations. The product has no adverse effects on the textile fibers or dyestuffs.

TYPICAL PROPERTIES

Composition	Biological culture
Form	Amber liquid
Water Solubility	Complete and stable
Storage	Protect from freezing

APPLICATION

Effective removal of hydrogen peroxide is essential prior to the application of dyestuffs that are sensitive to oxidation. **MaxxZyme CLC** can be used to completely eliminate peroxide residues quickly, with faster process times and reduced water usage. **MaxxZyme CLC** can be applied in all batch dyeing equipment, such as jets, jigs and becks and functions over a broad pH range. Preferred process conditions are:

Enzyme dosage	0.01-0.05% g/l
pH of wash water	4-9
Temperature	15°C-70°C
Treatment time	10-20 minutes

The recommended post-bleach procedure is to drain the bleach bath and refill with fresh water. After the pH and temperature are adjusted as indicated, the **MaxxZyme CLC** is added and circulated. Residual peroxide can be checked after 10-20 minutes using test strips. Once residual peroxide is eliminated the dyeing process can be set up in the same bath since residual catalase will have no effect on the dyes or process.

PRODUCT DILUTION

MaxxZyme CLC is highly concentrated and pre-dilution is required prior to the bleaching process addition. A 5%-10% (w/w) dilution level as supplied is recommended for a product dose of 0.1-0.5 g/l. The dilution should be made using a 20% (w/w) sodium chloride solution (food grade) @ pH 5.1-5.3. The salt solution acts as a preservative for the enzyme preparation.

STORAGE & HANDLING

The activity of **MaxxZyme CLC** will not decrease below 90% of the declared activity when stored at room temperature for three months from the date of shipment. Storage at cooler temperature extends shelf life and is recommended. Repeated inhalation of enzyme in aerosol or dust form can cause sensitization and allergic reaction for certain individuals and should be avoided. Please refer to the SDS for further safe handling advise.