

## Technical Data Sheet

# Kem Cell 6000

### INTRODUCTION

**Kem Cell 6000** is a Neutral Cellulase enzyme supplied as a concentrate in the powder form.

### APPLICATION

**Kem Cell 6000 (Neutral Cellulase )** is used in Textile finishing processes like bio-polishing and bio-fading especially in Denims and Cotton fabric.

### PROPERTIES

Appearance	Slight Yellow Colour Powder
Chemical Character	Neutral Cellulase
Odor	Slight Fermentation Odour
Solubility in Water	Slightly soluble in water
pH(1% solution)	6.8
Application pH range	6.0 to 7.5 optimum 6.8
Application Temperature Range	50-60 °C.

### STABILITY

Metal Ions	Fe and Cu ions are poisonous for enzymes
------------	--

### COMPATIBILITY

Non-ionic surfactants	Generally very good
Organic sequestrants	Generally good
Oxidizing/Reducing Agent	Will hamper the performance of the enzymes.
Pumice Stones/ Diatomaceous Earth	Compatible
Buffering Salts / Dispersing Agents	Compatible

### METHOD OF DILUTION:

**Kem Cell 6000** is supplied as a concentrate, allowing flexibility and economy of use. It is formulated with water and other additives like Non-ionic surfactants, Anti-back staining agents etc. The ratio in which this dilution is done is dependant upon the quality of fabric to be processed and the customer requirements.

The recommended dilution would be upto **1:7**. The dilution is achieved by addition of Enzyme concentrate to the already prepared solution of the additives whose pH has been maintained to the optimum pH of the Enzyme concentrate. Slow stirring is advised to ensure a homogeneous product. The enzyme dosage can be anything between 0.5 to 1.0% o.w.f depending on the fabric type.

## INACTIVATION

The enzyme bath can be inactivated by raising the pH above 11.0 for 15 minutes or raising the temperature above 71 °C for 10 minutes

## BENEFITS

- 1 Provides high level of abrasion, excellent surface polishing, de – pilling, high contrast and body softness on various cellulosic garments.
- 2 Back staining is negligible.
- 3 High level of surface modifications can be achieved with e.g. pumice stones, which reduce machine wear and tear and fabric damages.
- 4 Gives excellent puckering and more grains.
- 5 Even capable of working at alkaline pH with dosage and time modifications

## PACKAGING

25 Kgs packing in Bags

## SHELF LIFE

For maximum shelf life it is recommended to store the product at lower temperature (less than 25 °C). Enzyme can be stored up to 6 months at 25 °C for one year at 5 °C. The enzyme activity is not less than 90% of the labeled value.

## SAFETY AND HANDLING MEASURES

Enzyme preparation belongs to protein, which may include sensitization and cause allergic type reaction in sensitive individuals. Prolonged contact may cause minor irritation for skin, eyes or mucous membrane of nose. So any direct contact with human body should be avoided. If irritation or allergic response for skin or eyes develops, consult a doctor.

## TECHNICAL SERVICES

Chembond Chemicals Ltd. believes in providing complete technical assistance by conducting on-site trials and demonstrations. Our aim is to improve the existing processes and develop new products as per the market requirements. We all strive hard to achieve complete Customer satisfaction. For any further queries, please feel free to call our Sales/ Technical representatives.

**Your co-operation will help us serve you better.**