

Technical Data Sheet

Kem Amylase 300

INTRODUCTION

Kem Amylase 300 is a bacterial α -amylase preparation, supplied as a concentrate

APPLICATION

Kem Amylase 300 (Medium Temperature α -amylase) used in Textile processing for desizing of Fabric sized with Starch and Starch derivatives.

PROPERTIES

Appearance	Amber Colour Liquid
Chemical Character	Bacterial Alpha Amylase
Odor	Slight Fermentation Odour
Solubility in Water	Completely soluble in water
pH(1% solution)	6.8
Application pH range	6.0 to 7.0 optimum 6.8
Application Temperature Range	50-60 °C

STABILITY

Hard Water	Good. Ca ²⁺ ion increases the efficiency of the enzyme
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.

METHOD OF DILUTION:

Kem Amylase 300 is supplied as a concentrate, allowing flexibility and economy of use. It is diluted with water and other additives like Non-ionic surfactant etc. The ratio in which this dilution is done dependant upon the quality of fabric to be processed and the customer requirements. The recommended dilution would be upto 1:4. 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 1.5% o.w.f depending on the fabric type.

INACTIVATION

The enzyme bath can be inactivated by raising the pH to 9.0 for 15 minutes with Sodium Carbonate

BENEFITS

- 1 For easy, one step efficient desizing of Cotton fabric
- 2 Suitable for Medium Temperature desizing
- 3 Eco-friendly and Bio-degradable processing

PACKAGING

25 Kgs packing in non-toxic plastic carboys

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.