

Technical Data Sheet

Kem Liquizyme 400

DESCRIPTION

Kem Liquizyme 400 is a bacterial α -amylase preparation produced by submerged fermentation of a selected strain of *Bacillus licheniformis*. It is a thermo stable amylase that can randomly hydrolyze α -1.4 glycosidic bonds of starch and starch derivatives into soluble dextrin and oligosaccharides.

TYPICAL APPLICATION

Kem Liquizyme 400 (High Temperature α -amylase) used in distillery for the purpose of breakdown of starch to dextrin. It is a ready-to-use enzyme especially for liquefaction process.

PROPERTIES

Appearance	Brown Color Liquid
Chemical Character	Blend of enzymes
Odor	Slight Fermentation odor
Solubility in Water	Completely soluble in water
pH (of 1% solution)	4.0-5.0
Application pH range	5.5 to 6.5 Optimum 6.0
Application Temperature Range	50-100 °C

ADVANTAGES AND ECONOMICS:

The use of **Kem Liquizyme 400** in the grain based distillery yields the following advantage in the process.

- 1) For easy, one step efficient liquefaction of starch
- 2) Suitable for High Temperature liquefaction
- 3) Reduces processing time
- 4) Suitable for High speed and Continuous liquefaction
- 5) Eco-friendly and Bio-degradable processing
- 6) Increase Biochemical activity of the culture yeast.
- 7) It reduces the Total Cycle Time of the process.
- 8) This will prevent the side product/ Bi-product formation.
- 9) Increase Fermentation Efficiency.
- 10) Reduces Organic content of Effluent treatment Plant.



METHOD OF APPLICATION :

Kem Liquizyme 400 is supplied as a concentrate, allowing flexibility and economy of use. It is diluted with water at a time of application. The ratio in which this dilution is done is dependent upon the Starch content of grain and the customer requirements. The recommended Dosage is 0.6-1.2 kg/ton of starch.

The enzyme dosage will be between 0.6 to 1.2 Kg/ ton of starch depending on the raw material used like Sorghum, Jowar, Rice, Corn, Bajara(millet) Etc.

PACKING, STORAGE HANDLING:

Kem Liquizyme 400 is available in 25kg packaging in HDPE carboy. Keep the container closed and away from sunlight. The product should not be swallowed and prolonged contact with skin must be avoided. If it comes in contact with eyes, flush it with clean cold water and get prompt medical attention.

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.