

Technical Data Sheet

Kem Saccharizyme

DESCRIPTION

Kem Saccharizyme is the hydrolytic enzyme of alpha-1,6 glucosan and glucose; it is made from *Aspergillus niger* through cultivation and extraction technique. This product can be used in industry of alcohol, distillate spirits, beer brewing, and organic acid.

TYPICAL APPLICATION

Kem Saccharizyme used in grain based distillery for saccharification of starch by hydrolysis of maltodextrin and amylopectin to glucose thus increasing the sweetness. This enzyme is added to the liquefied starch after making up the volume with water at 37°C.

PROPERTIES

Appearance	Brown Color Liquid
Chemical Character	Blend of enzymes
Odor	Slight Fermentation Odour
Solubility in Water	Completely soluble in water
pH (of 1% solution)	4.0-5.0
Application pH range	4.0 to 6.5. Optimum 4.6
Application Temperature Range	70-95 °C

ADVANTAGES

AND ECONOMICS:

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

- 1) For easy, one step efficient Saccharification of dextrin
- 2) Suitable for low to middle Temperature saccharification
- 3) Reduces processing time
- 4) Suitable for sachharification and simultaneous fermentation and saccharification
- 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/Byproduct formation.

- 9) Increase Fermentation Efficiency.
- 10) Reduces Organic content of Effluent treatment Plant.

METHOD OF APPLICATION :

Kem Saccharizyme is supplied as ready to use product. It can be used in sachharification process or simultaneous fermentation and sachharification process which can minimize the process time.

The recommended Dosage is 0.8-1.2 kg/ton of starch of grain sample.

The enzyme dosage will be anything between 0.8 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 Saccharizyme is available in 25 kg packaging in HDPE plastic 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 improvise 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.