



# ENZYLASE

***Thermostable  $\alpha$ -amylase for improved efficient process in sugar manufacturing***

In sugar manufacturing, starch accumulation can increase viscosity, affect clarification, impact pan boiling efficiency, and contribute to operational inefficiencies during processing.

Enzylase is a starch-hydrolysing alpha-amylase produced through controlled fermentation of genetically modified strains of *Bacillus licheniformis*.

## **Mode of Action**

- Hydrolyses internal  $\alpha$ -1,4-glucosidic bonds in starch
- Converts starch into dextrin and glucose

## **Product Key Benefits**

- Improves clarification efficiency
- Reduces process viscosity
- Enhances pan boiling performance
- Improves ICUMSA colour
- Supports overall manufacturing process improvement with prolonged use

## Product Application

Applicable across sugar manufacturing operations including:

- Milling and juice extraction
- Clarification systems
- Vacuum pan boiling and crystallization
- Refinery operations

Dosage may vary depending on:

- Climatic conditions
- Cane variety
- Starch levels
- Process requirements

## Operational Conditions

- Temperature: 35 – 105°C
- pH: 5.0 – 7.5

## Dosage

- 3–5 ppm (3–5 g per ton of cane crushed) depending on starch levels
- 25–30 ppm on raw sugar

## Product Characteristics

Form: Liquid  
Appearance: Brown

## Product Packaging

- 30 kg HDPE drums

## Product Shelf Life

- Minimum 6 months below 30°C

## Product Handling

Enzymes are proteins and require controlled handling:

- Avoid inhalation of dust or aerosols
- Use PPE including gloves, protective clothing, and eye/face protection
- Prevent splashing and aerosol formation
- Flush spills with water to avoid dust formation
- Wash contaminated clothing before reuse
- Follow MSDS guidelines for safe handling



ISO 9001:2015 Certified | FSC 22000 Certified

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Certifications:

