



ALCOZYME G PRO ADVANCE

Advanced Enzyme Composition for Grain Ethanol

Grain ethanol fermentation often encounters challenges such as non-fermentable sugars, bacterial contamination (especially *Lactobacillus*), and inefficient recovery, leading to yield losses and process inefficiencies.

Alcozyme G Pro Advance is an **advanced enzyme formulation** designed to improve sugar conversion, control bacterial proliferation, and enhance overall fermentation performance and recovery.

Mode of Action

- Converts non-fermentable sugars into fermentable sugars, increasing availability.
- Inhibits *Lactobacillus*, reducing lactic acid loss.
- Releases FAAN via proteolysis, enhancing yeast growth.
- Controls contamination, lowering VFA and improving stability.

Product Key Benefits

- Controls bacterial contamination and lactic acid formation
- Improves yeast health and viability
- Reduces residual sugars in the process
- Improves alcohol yield and fermentation recovery
- Reduces spent wash ratio through higher alcohol concentration
- Eliminates diacetyl odour and improves product quality

Product Application

- Applicable in grain-based ethanol fermentation systems.
- Used in yeast vessel, pre-fermenter and fermenter; in some cases, applicable in pre-fermenter only along with other Alcozyme series.

Operational Conditions

- Effective pH Range: **4.0 – 5.5**
- Effective Temperature Range: **30 – 55°C**

Dosage

4–6 ppm on mash with split dosing

Product Characteristics

- Composition: Blend of essential enzymes
- Form: Powder
- Appearance: Off-white to brownish
- Shelf Life: Minimum 24 months (below 25°C)

Product Packaging

- 1 kg packs in 20 kg HDPE drums

Product Handling

- Avoid inhalation of enzyme dust or aerosols.
- Use PPE including gloves and eye protection.
- Prevent splashing and dust formation.
- Spilled material should be washed away with water. Follow MSDS guidelines for safe handling



ISO 9001:2015 Certified | FSC 22000 Certified

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