



NATUFERM

Amylolytic enzyme blend for improving wort fermentability and attenuation in brewing

In brewing, especially under high gravity conditions, incomplete dextrin breakdown can limit fermentability, reduce attenuation, and lead to stuck fermentation, impacting process efficiency and product consistency.

Natuferm is a specialized enzyme blend designed to hydrolyse complex dextrans into fermentable sugars, improving attenuation and ensuring efficient fermentation performance.

Mode of Action

Natuferm contains a synergistic enzyme system:

- Hydrolyses α -1,6 linkages in amylopectin and α -1,4 linkages in amylose and amylopectin
- Converts alpha-limit dextrans into maltose units
- Utilizes combined action of limit dextrinase and maltogenic amylase
- Enhances fermentability and attenuation by increasing maltose availability

Product Key Benefits

- Increases maltose yield with minimal by-products
- Improves attenuation, especially in high gravity worts
- Helps overcome stuck fermentation
- Reduces viscosity, improving heat transfer efficiency
- Enhances overall fermentation performance and consistency

Product Application

Applicable in brewing processes during mashing or fermentation stages.

- Can be added at the beginning of mash
- For best results, full dosage may be added at the start of fermentation

Operational Conditions:

- Temperature: 8–16°C
- pH: 5.0 – 6.7

Dosage

- 2–4 g per HL

Product Characteristics

Composition: Blend of essential enzymes

Form: Powder

Appearance: White to off-white

Product Packaging

- 25 kg HDPE drums

Product Shelf Life

- Minimum 6 months below 25°C
- Up to 12 months at 5°C

Product Handling

Enzymes are proteins and may cause sensitization upon inhalation or prolonged exposure.

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



ISO 9001:2015 Certified | FSSC 22000 Certified

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Certifications:

 **FSSC 22000**

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