



ENZYMOL PROTECT ADVANCE

Enzyme-based formulation designed to preserve Molasses quality during storage.

Preserving sugarcane Molasses during storage is a major challenge due to rapid crystallization, microbial contamination, and degradation of fermentable sugars. These issues often lead to reduced sugar content, increased acidity (TVA), foaming, and deterioration in colour and aroma, especially under favourable climatic conditions. It is a specially formulated blend of enzymes and complementary ingredients developed to maintain Molasses quality during storage. It helps control undesirable reactions and stabilizes the molasses, ensuring better retention of sugar and overall quality.

Mode of Action

The product utilizes a synergistic blend of enzymes that act on fermentable sugars and impurities to prevent their degradation. It inhibits undesirable biochemical reactions such as acid formation and Maillard reaction, while suppressing microbial activity and polysaccharide formation, thereby preserving molasses stability.

Product Key Benefits

- Safeguards fermentable sugar content during storage
- Prevents Maillard reaction
- Reduces sugar loss and improves yield per MT of feedstock
- Enhances syrup shelf life
- Suppresses formation of total polysaccharides
- Maintains molasses quality (colour, aroma, stability)

Product Application

- **Application Area:** Sugarcane molasses storage tanks
- **Usage:** Added directly into molasses during storage with proper circulation

Operational Conditions

- Temperature: 30–40°C
- pH: 5.0 –5.8
- Ensure proper mixing using circulation pumps

Dosage

- Enzymol Protect: 20 ppm every 15 days (40 ppm per month)
- Enzymol Protect Advance: 15 ppm every 15 days (30 ppm per month)

Product Characteristics

- Composition: Blend of essential enzymes with complementary ingredients
- Appearance: Clear / transparent white liquid

Shelf Life

- 12 months

Product Packaging

- 25 kg HDPE drums

Product Handling

- Enzymes may cause sensitization or allergic reactions upon inhalation
- Avoid formation and inhalation of aerosols or dust
- May cause irritation to skin, eyes, and mucous membranes
- Avoid splashing; spilled product should be flushed with water carefully
- Dried residues should be handled to prevent dust formation
- Use protective clothing, gloves, and eye/face protection
- Wash contaminated clothing thoroughly
- Follow MSDS guidelines for detailed safety instructions



ISO 9001:2015 Certified | FSC 22000 Certified

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