

Thermosacc[®] DRY

High Performance Active Dry Yeast

Thermosacc Dry is an active dry yeast (ADY) for use in fuel ethanol fermentations. It contains a selected strain of *Saccharomyces cerevisiae* distillers' yeast in a highly concentrated and stable form.

CHARACTERISTICS

For use in high-gravity fermentation at high sugar and alcohol concentrations.

- It works well at temperatures up to 37°C (98°F) and alcohol concentrations of more than 20% by volume (16% by weight)
- High concentrations and temperatures improve productivity and efficiency by producing more alcohol in less time
- Tolerates high levels of organic acids and is well suited to use in "zero discharge" fuel ethanol plants
- Produces a low level of fermentation by-products and is suitable for many types of alcohol

INGREDIENTS

Yeast, E491 emulsifier

APPLICATIONS

Thermosacc DRY is intended for use in fuel ethanol productions.

- Can ferment at temperatures up to 40°C (104°F) for very short periods of time. However, temperatures of 34°C - 37°C (93°F - 98°F) are generally recommended
- Hydration/Blend Tank 35°C - 38°C (95°F - 100°F)
- Propagation Tank 33°C (92°F)
- Fermentation Tank 33°C - 35°C (92°F - 95°F)
- Ferments well at pH range of 3.5 - 6.0. However, a pH of 3.5 - 4.5 is more optimal for fermentation
- Can achieve alcohol concentrations of more than 20% by volume (16% by weight) dependent on operational parameters

PACKAGING

Packaged in vacuum sealed foil bags. Ships in cardboard boxes
Available in 20 kg (44.09 lb) boxes

DIRECTIONS FOR USE

If added directly to the fermentor, a dose of approximately 0.12 - 0.36 kg per 1000 L (1 - 3 lb per 1000 US gal). Lower levels can be used if there is a propagation or conditioning step before the fermentor.

Propagation or conditioning of yeast should be performed to increase the yeast cell mass that is added to the fermentor and to acclimate the yeast, reducing the lag phase of yeast upon entry to the fermentor.

Thermosacc DRY yeast is ideally suited for batch propagation systems.

Contact your Lallemand Biofuels & Distilled Spirits Technical Representative for more details.

STORAGE & HANDLING

Product should be stored under vacuum in a cool, dry area away from heat for maximum stability. When stored under these conditions, the product is stable for 36 months from the date of manufacture.

REGULATORY & CERTIFICATIONS

GRAS (Generally Recognized as Safe)
IFN 7-05-520 (IFN: International Feed Number)
Kosher
CFIA Approved

PRECAUTIONS

This product is not intended nor marketed for veterinary or human use.

Color may vary per batch, but in no way affects the performance of the product.