

Superstart™

Continuous Active Dry Yeast

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

CHARACTERISTICS

Long-lived and resilient to continuous fermentation conditions.

- Ability to maintain its genetic integrity over longer fermentation times
- Reduced wash through maintains high cell concentrations due to larger cell size
- Moderate stress tolerance

Dry format and long shelf life is more suited for the infrequency of dose in continuous systems

INGREDIENTS

Yeast, E491 emulsifier

APPLICATIONS

Superstart is intended for use in fuel ethanol productions.

- Can ferment at increased temperatures for very short periods of time. However, temperatures of 34°C - 37°C (93°F - 98°F) are generally recommended
- Propagation Tank 33°C (92°F)
- Fermentation Tank 33°C (92°F)
- Ferments well at pH range of 3.5 - 6.0. However, a pH of 3.5 - 4.5 is more optimal for fermentation

PACKAGING

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

DIRECTIONS FOR USE

Rehydration:

For best results, add to liquids at temperatures of 30°C - 40°C (90°F - 105°F)

Initial Pitch (Continuous):

Added directly to the fermentor at a rate of 20 - 50 g per hectoliter (2 - 4 lb per 1000 US gal)

Reconditioning Dose (Continuous):

Added directly to the fermentor at a rate of 12 g per hectoliter (1 lb per 1000 US gal) on a regular basis.

Batch Fermentations:

Added directly to the fermentor at a rate of 20 - 50 g per hectoliter (2 - 4 lb per 1000 US gal). Lower levels can be used if there is a propagation or conditioning stage before the fermentor.

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.