

# 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.