Alcolase™ ALT

Alpha-amylase for Fuel Ethanol Fermentations

Alcolase ALT is a lower dosage, high yielding, highly concentrated alpha-amylase enzyme used for viscosity reduction and breakdown of starch for use in fuel ethanol fermentations

CHARACTERISTICS

Alcoloase ALT is an alpha amylase which efficiently breaks down starch from grains and other starch sources into dextrins at high temperatures, lowering viscosity and preparing starch for fermentation.

Catalyzes the dextrinization of starch by hydrolyzing α 1-4 glycosidic bonds to produce short chain dextrins.

Converts starch to a mixture of dextrins for optimal breakdown to glucose in fermentation.

High ethanol yields at industrial scale.

SPECIFICATIONS

Appearance: Clear brown liquid
pH: 4.5 - 6.5
Specific Gravity: 1.05 - 1.30 kg/L
Formulation: Food-grade

INGREDIENTS

Clear brown liquid consisting of alpha amylase, water, and food grade stabilizers.

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

APPLICATIONS

Alpha amylase is used to saccharify liquefied starch from various sources including corn, wheat, tapioca, barley, rice, and potatoes. The resultant alpha-amylase product is fermented by yeast to produce alcohol.

Alcolase ALT enzyme is active under typical fuel ethanol liquefaction temperatures and is most active at 80-95°C and pH conditions 4.0 - 5.5

PACKAGING

Available in 1125 kb (2480 lbs 10 oz) totes

DIRECTIONS FOR USE

Alcolase ALT enzyme is generally added at a level of 0.03% to 0.05% w/w/ grain as-is. The actual enzyme requirement is dependent on operating conditions (i.e. temperature, reaction time, pH, and solids) and desired results.

Contact your local representative for more details.

STORAGE & HANDLING

Enzyme should be stored below 20˚C (68˚F) for maximum stability, preferentially refrigerated at <5˚C (<41˚F) and sheltered against direct sunlight. When stored under these conditions, the product is stable for 24 months from the date of manufacture.

Inhalation of enzyme dust and mists should be avoided. In case of contact with the skin or eyes, promptly rinse with water for at least 15 minutes.

Use proper protective equipment while handling any enzyme product.

LALLEMAND BIOFUELS & DISTILLED SPIRITS

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