

ACTIONZYME-ALK AMYL (Alkaline amylase for detergent industries)

Description

ACTIONZYME-ALK-AMYL is an alkaline amylase enzyme preparation produced by a selected strain on bacillus species. The enzyme will hydrolyze starch and oligosaccharides. ACTIONZYME-ALK-AMYL is a high performing amylase enzyme. The ACTIONZYME-ALK-AMYL is specifically supplemented to the detergent to digest starchy stains.

Product name	Activity	Temperature range	pH range	Description
ACTIONZYME ALK AMYL L	55000 BAU/gm	Working 45-70°C Optimal 40-60°C	Working 7.0-10.00 Optimal 8.0-9.0	brown colored liquid
ACTIONZYME ALK AMYL P	62000 BAU/gm	Working 45-70°C Optimal 40-60°C	Working 7.0-10.00 Optimal 8.0-9.0	Creamy to brown color powder

Applications

- Native starch is only slowly degraded by ACTIONZYME-ALK-AMYL. Gelatinization and swelling are needed to make the starch susceptible to enzymatic breakdown.
- For most foods, various degrees of gelatinization result from cooking. Therefore, in detergents for laundry and automatic dishwashing, amylases facilitate the removal of starch-containing stains, e.g., pasta, potato, gravy, chocolate, and baby food.
- Amylases also prevent swollen starch from adhering to the surface of laundry and dishes that may otherwise act as glue for particulate soiling. Complexes or reaction products between protein, starch, and/or fat are usually found in prepared foods.
- Enzyme synergy effects make it possible to remove soil even more efficiently than with single enzyme systems.

Packaging

ACTIONZYME-ALK-AMYLs available in 25 kg paper bag for powder and 25 kg HDPE drum for liquid products. Packaging can be customized as per requirement.

Dosage

The recommended dosage will vary from detergent to detergent and depends on surfactant & washing conditions but typically dosage from 0.2-1.5 % (wt. on detergent).

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Technical Support

Actionzyme technical laboratory shall be pleased to provide more information covering specific applications for this product or discuss any particular problem, which may occur in your detergent industry

Usage Guidelines

There are many factors that influence protein hydrolysis with ACTIONZYME-ALK-AMYL such as:

- I. Types of detergent
- II. pH of the detergent
- III. Moisture content of detergent

Heavy metals, halogens and oxidizing agents, free acids de-activate the enzyme, hence should be avoided.

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