



Amylase TT-12L

An Enzyme Supplies alkaline amylase for laundry detergents

INTRODUCTION

Amylase TT-12L is an amylase enzyme used in detergents for laundry as well as automatic dishwashing. Amylase TT-12L facilitates the removal of starch containing stains, e.g. from pasta, potato, gravy, chocolate, and baby food. Dried-up starch is difficult to remove at medium to low temperatures, especially with detergents of modest alkalinity. It adheres to the surface of laundry and dishes, acting as a glue for other stain components. Amylase TT-12L hydrolyzes the starch into dextrans and sugars which are readily dissolved in the washing liquor.

Amylase TT-12L is an alpha-amylase produced by submerged fermentation of a genetically modified *Bacillus* microorganism.

ENZYME PROPERTIES

Amylase TT-12L is active over a broad range of pH values from 7 – 9.5, with an optimum of pH 8.0. The enzyme is also active over a broad temperature range from 30°C to 90°C, with an optimum performance at 55°C

TYPICAL CHARACTERISTICS

Activity minimum 240 KNU/g

Appearance: brown liquid

Bulk density 1.15-1.2

Amylase TT-12L is completely miscible with water

USE IN DETERGENT FORMULATIONS

Recommended dose rate in detergent formulations is 0.1 – 0.5% w/w of detergent formulation, but determination of optimum dose should be based upon wash conditions, detergent formulation, detergent dose/wash & level of cleaning performance desired.

PACKAGING

Amylase TT-12L is available in 25Kg jerry cans or 1 tonne IBC's.

STORAGE STABILITY

To maintain optimum activity, store at moderate temperatures (below 25°C), in the original containers and with the lid closed or bag sealed. The product will retain its declared activity for at least 6 months.

SAFETY AND ENZYME HANDLING

Open in a well-ventilated environment. In case of accidental spillage or contact with skin/eyes, promptly rinse with water for at least 15 minutes. Spillages of liquid enzyme should be cleared with a low-pressure water source (avoiding the formation of aerosols). For more detailed information please refer to the Material Safety Data Sheet for these products

Enzyme Supplies Limited

John Eccles House
Robert Robinson Avenue
The Oxford Science Park
Oxford OX4 4GP
U.K.

Tel. +44 (01865) 578557

Mobile: 077178 17509

Fax. +44 (01865) 338100

Mail: info@enzymesupplies.com