



Product Information Sheet

Protease ST-12T

An Enzyme Supplies alkaline protease granulate for laundry detergents

INTRODUCTION

Protease ST-12T is a highly active granular protease, for use in biological detergent products. The product acts by hydrolyzing protein soilings such as grass, blood & various foods. Protease ST-12T hydrolyses proteins into peptides which are easily dissolved & dispersed in the wash liquor. Whilst being able to operate at moderate temperatures & mildly alkaline pH, it can also tolerate higher wash temperatures and high pH commonly found in industrial laundries.

Protease ST-12T is derived from a genetically modified strain of *Bacillus alcalophilus*.

The activity of Protease ST-12T is expressed in Kilo Protease Units (KPU), and contains no significant side-activities.

ENZYME PROPERTIES

Protease ST-12T is active over a broad range of pH values from 8 – 12, with an optimum of pH 11. The enzyme is also active over a broad temperature range from 30°C to 70°C, with an optimum performance at 50° C.

TYPICAL CHARACTERISTICS

Activity minimum 12.0 KPU/g
Appearance – off white granulate

USE IN DETERGENT FORMULATIONS

Recommended dose rate in detergent formulations is 1-2% by volume, but determination of optimum dose should be based upon wash conditions, detergent formulation, detergent dose/wash & level of cleaning performance desired.

PACKAGING

Protease ST-12T is available in bulk and 50Kg containers

STORAGE STABILITY

Protease ST-12T has excellent long-term storage properties. To maintain optimum activity, store at moderate temperatures (below 25°C), in the original containers and with the lid closed.

SAFETY AND ENZYME HANDLING

Inhalation of aerosols from liquid enzymes should be avoided. 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. For more detailed information please refer to the Material Safety Data Sheet for this product

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