



*Aum Enzymes*  
India's #1 Speciality Enzyme Products

## **CLEANZYME-P**

Specialty Alkaline protease

### **BENEFITS**

Enzymes are ecofriendly and biodegradable  
Enzyme based detergents are more efficient  
Enzyme based detergents are non corrosives, safe, cost effective.  
High activity and stability in alkaline pH range  
Broad substrate specificity  
Compatibility with oxidizing agents  
Compatibility with chelating agents  
Compatibility with surfactant

### **DESCRIPTION**

Cleanzyme-P is an alkaline protease enzyme preparation produced by a selected strain of *Bacillus spp.* to be used in household laundry, dishwashing, industrial and institutional laundry detergent industry. Cleanzyme-P is ready to used enzyme for detergent industry.

It removes protein stains such as grass, blood, mucus, faeces and various foods such as egg and gravy. These substances are almost insoluble and tend to adhere to the surface of textiles and other surfaces. Cleanzyme-P contain alkaline protease will hydrolyze proteins producing soluble peptides and amino acids which are readily dissolve and disperse in the washing liquor.

### **PRODUCT SPECIFICATION:**

Parameters	Optimal range	Operational range
Temperature	30°C to 65°C	30°C to 70°C
pH	8.0 to 11.0	<b>7.00 to 12.00</b>
<b>Physical form</b>	<b>Liquid &amp; powder</b>	
Enzymes types	Alkaline protease	
Microbial source	<i>Bacillus species</i>	

### **PAKAGING**

Enzymes products are available in 25 kilogram in jerry can for liquid products & HDPE fiber drum for Granule products. Special packaging is also available on request.

### **SAFETY**

The product is produced under hygienic condition and is subject to stringent quality control.

#### Toxicology

The product produced by GRAS microorganism and is classified as non toxic.

#### Biodegradability

Product is Biodegradable.

Handling precaution

Enzymes are proteins and inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes and mucous membranes upon prolonged contact.

Liquid enzyme products may create inhalable aerosols if splashed or vigorously stirred. Spilled product material should therefore be flushed away with water.

**STORAGE:**

Enzyme products should be stored in a cool dry place. When stored below 35°C products will maintain its declared activity for at least 24 months. The enzyme preparation should not be left in direct sunlight for extended periods. Liquid preparation should not be frozen.

**REGULATORY INFORMATION:**

EEC Classification

In concentration form, the liquid enzymes products are classified as “sensitizers by inhalation” under the terms of EEC directive 88/379.

**TECHNICAL DATASHEET  
[FOR CLEANZYME-P]**

There are many factors that influence activity of Cleanzyme-P

- [1]Types of detergents and dosage
- [2] pH of detergent solution
- [3]Ionic strength of the detergent solution
- [4] Washing temperature
- [5]Mechanical Handling
- [6]Water hardness
- [7] Level of soiling
- [8]Type of textile

**Below mention general guideline for dosage of Cleanzyme-P**

Product	Dosage[%]
House hold detergent	0.1-0.3
Liquid detergent	0.2-0.4 %
Heavy duty detergent	0.8-1.0 %
Dishwashing detergent	2.5 %
Industrial detergent	3-5 %

**TECHNICAL SERVICE:**

Aum Enzymes technical service laboratory shall be pleased to provide more information covering specific applications for all products or discuss any practical problem which many occur in the industry.

Technical datasheet given with each product are only given as usage guidelines, but tests should be carried out under local conditions to fix the optimum dosage for the machine type and conditions.

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