

## ACTIONZYME – ALK - CELL Alkaline cellulase enzyme for detergents)

### Description

ACTIONZYME-ALK-CELL is an alkaline cellulase enzyme produced by a *bacillus species*. Cellulases clean by hydrolysis of glycosidic bonds which removes particulate soils attached to cotton microfibers. Key effects of cellulases are to soften and improve the colour brightness of worn textile surfaces.

ACTIONZYME -ALK-CELL P

POWDER

ACTIONZYME-ALK-CELL L

LIQUID

Product name	Activity	Description	Temperature range	pH range
ACTIONZYME ALK-CELL P (Powder)	22000 ACU/gm	brown colour liquid	Optimal 35°C-60° C Working 30°C-70°C	Optimal 8.5-11.5 Working 8.0-12.0
ACTIONZYME ALK CELL L (Liquid)	24500 ACU/gm	Off white colour granules	Optimal 35°C-60° C Working 30°C-70°C	Optimal 8.5-11.5 Working 8.0-12.0

### Applications

- ACTIONZYME-ALK-CELL not only revives and intensifies colours but removes pilling on used cotton garments and prevents greying and keeps the appearance of laundry bright and fresh. It is stable with the most common proteases and other chemicals in current liquid and powder - detergent formulations.
- ACTIONZYME-ALK-CEL provides worry-free high-performance anti-greying activity and full flexibility to optimize laundry detergent formulations.
- ACTIONZYME-ALK-CEL enzyme revives colors and removing pilling on used cotton garments and fabrics by cleaving protruding fibers from fabric surfaces, leaving them smooth and brightly colored.

### Dosage

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



## **ACTIONZYME – ALK - CELL** **Alkaline cellulase enzyme for detergents)**

### **Packaging**

ACTION-ALK-CELL Is available in 25 kg paper bag for powder and 25 kg HDPE drum for liquid products. Packaging should be customized as per requirement.

### **Technical Support**

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

### **Usage Guidelines**

There are many factors that influence protein hydrolysis with ACTION-ALK-CELL 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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