

## ADI-ZYME BPN 07

### Neutral cellulase for denim and textile finishing

ADI-ZYME BPN 07 is neutral cellulase enzymes designed for textile applications such as fabric and garment bio-finishing (i.e., depilling surface modifications and softening). It gives excellent finishing performance on 100% cotton and blend. Versatile ADI-ZYME BPN 07 provides surface polishing, and softening with low enzyme dosages on a variety of cellulosic fabrics and garments.

ADI-ZYME BPN 07 provides complete fibrillation control to generate superior and durable finish on fabrics. It is **compatible** with most other processing aids, including **nonionic wetting agents** and **dispersants** etc. Compatibility should be checked to determine the impact on enzyme and stability.

ADI-ZYME BPN 07 is ideal for bio-finishing of cotton and blends fabrics and garments. It is also suitable for denim washing. Enzyme treatment can be done **before** and **after** dyeing, depending on the desired final effect on the goods.

ADI-ZYME BPN 07 produces a stone washed look that can be varied according to the user's preference. A wide range of abrasion can be obtained either with or without stones.

ADI-ZYME BPN 07 provides surface polishing, prevents pill formation, creates improved hand, provides fibrillation control and reduces dead and immature cotton. Enzyme treatment after dyeing can result in partial dye removal, depending on the type of dye used.

### Properties

Non-Ionic wetting agents, non-ionic surfactants, dispersants, buffering salts, and pumice stones are compatible with ADI-ZYME BPN 07, but positive testing is recommended prior to all formulations and applications.

Contact of ADI-ZYME BPN 07 with fabric ions should be avoided.

Inactivation must be carried out after treatment. Either alkaline rinse by raising pH > 10 for 10 minutes or the use of bleaching agents will terminate the enzyme reaction.

<b>Chemical composition:</b>	<b>Neutral cellulase</b>
<b>pH:</b>	<b>About 6.0 to 7.0</b>
<b>Physical form:</b>	<b>Pale to medium brown liquid</b>
<b>Storage stability:</b>	<b>ADI-ZYME BPN 07 is recommended to store at RT. Avoid from direct sunlight</b>
<b>Solubility</b>	<b>Readily dispersible in water</b>

### Application

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NOTE: - The information and data contained herein are based on controlled or lab work. The recommendations are given on Previous experience basis but cannot be extended to cover every possible case. It should be verified and evaluated by The user by testing for the intended conditions of use. AIDA dyes & chemical does not express or imply any Warranty or guarantee. The suitability of the product for the application, intended by buyer of the product

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## Technical data sheet

ADI-ZYME BPN 07 is a neutral liquid cellulase which provides additional benefits over traditionally used acidic cellulase. Benefits include: No pH adjustment necessary which saves **time** and **cost of pH adjustment** chemicals. The flexibility of combined finishing and dyeing process in one bath further reduces **time** and **increases production**. While decreasing the amount of pilling and smoothing the fabric surface, ADI-ZYME BPN 07 cellulase increases color retention while decreasing fabric loss.

### *Suggested recipes*

#### **For exhaust:**

Dosage: 0.5– 1.5 %

PROCESS PARAMETERS	OPERATIONAL RANGE	OPTIMUM RANGE
pH	6.0 - 7.0	6.0 - 7.0
Temperature	40 - 55° C	50- 65° C
Liquor ratio	1:3-1:20	1:8 to 1:15
Time	15 –60 minutes	Dependent on variables

After application, De-activate by raising temperature of the bath to 80°C and run for 10 minutes

Drain the bath