
BEIZYM BPN T

Character	Neutral cellulase for biofinish surface smoothing on dark denims
Chemical character	Special cellulase blend
Appearance	Clear yellow liquid
Ionic character	Non-ionic
pH-Value	4.5 – 6.0
Apparent weight at 20 °C	~ 1.0
Stabilities	<p>Alkalis and strong acids impair the efficiency of BEIZYM BPN T . Wetting agents and detergents with anionic character can impair the activity.</p> <p>The product is sensitive to frost to a certain extent; changes arising at low temperatures disappear after warming up and stirring thoroughly.</p>
Storability	At a storing temperature of 20 - 30 °C in closed containers BEIZYM BPN T maintains its full enzyme activity for at least six months. A longer storing at temperatures above 30 °C should be avoided.

Properties

BEIZYM BPN T is a new, highly efficient neutral cellulase with the following application ranges:

- Removal of lint from blue denim, particularly from dark denim when the dark colour is to be maintained and therefore cannot be treated with common cellulases, but often has a very linty surface after desizing.
- In neutral medium the product effectuates that backstaining – despite the dark shade – is prevented unlike when treating with conventional enzymes.
- Depending on the fabric quality, application amounts up to 1 % make the denim bleed less than usual and lint removal is excellent.
- Higher application amounts of BEIZYM BPN T have additional abrasive properties that are similar to strong neutral cellulases.
- BEIZYM BPN T can also be used to remove lint from non-denim garments made of cotton. On coloured fabric there is less bleeding and therefore less shade changes.
- There is less loss of weight or strength than when removing the lint with customary acid cellulases.

Application technique

Diluting instructions

BEIZYM BPN T can be diluted before adding to the machine by stirring into cold or into warm water not higher than 45 °C.

In case of machines with direct heating first it should be heated up to treatment temperature in order not to impair the enzyme activity.

Recommendation for Use

The application quantities of BEIZYM BPN T depend on the desired effect or the desired stone-wash appearance.

The following recipe indications serve as guidelines after desizing the blue denim article:

Enzymatic treatment as biopolish:

0.3 – 1.0 % BEIZYM BPN T
0.2 – 0.5 g/l DENIMCOL CLEAN JWH

Machine : Drum washing / dyeing machine
Temperature : 45 – 55°C
pH Value : Neutral, pH 5.0 – 8.0 possible
Liquor ratio : 1:4 – 1:8
Treatment time : 20 – 40 minutes, must be adjusted to the article,
then rinse warm and cold

If complete drying is not done immediately, we recommend - like for all cellulases - to do a separate step for enzyme stop. This can be done by increasing the pH value to 10.0 or by increasing the temperature to approx. 80 °C.

For achieving a clean fabric with nice, clear surface, we recommend to save the separate enzyme stop and totally dry the fabric immediately.

Enzymatic stone wash / combination with pumice stones

0.3 – 2.0 % BEIZYM BPN T
0.2 – 0.5 g/l DENIMCOL CLEAN JWH

Machine : Drum washing / dyeing machine
Temperature : 45 – 55°C
pH Value : Neutral, pH 5.0 – 8.0 possible
Liquor ratio : 1:4 – 1:8
Treatment time : 20 – 60 minutes, must be adjusted to the article,
then rinse warm and cold
Separation of fabric and stones

If complete drying is not done immediately, we recommend - like for all cellulases - to do a separate step for enzyme stop. This can be done by increasing the pH value to 10.0 or by increasing the temperature to approx. 80 °C.

For achieving a clean fabric with nice, clear surface, we recommend to save the separate enzyme stop and totally dry the fabric immediately.

Then proceed with further treatments as usual such as afterwashing or bleaching.

We reserve the right to modify the product and technical leaflet.

Our department for applied technique is always at your service for further information and advice.

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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