

POLYZYME ST Conc.

Highly concentrated stone-wash enzyme

- Properties** :
- is preparation of cellulase, buffering system and additives.
 - is a ready-to-use product for the abrasion of denim (stone-washing).
 - contains dispersing agent, back-staining inhibitor and also a buffering system.
 - is used as an acid optimized cellulase to obtain low back-staining stone-wash effects in rotary washing machines for indigo-dyed garments; e.g. jeans pumices can be used in addition.
 - includes a buffer system in order to adjust the correct pH range. Furthermore, it contains additives to reduce the re-deposition of indigo dyestuff. This leads to a very low back-staining.
 - is used for the enzymatic stone-wash of jeans on drum dyeing machines.
 - provides high quality garment finish (contrast), high degree of reproducibility and also optimal strength retention.
 - is resistant to electrolytes and water hardness, but it is not resistant to heavy metal ions. Also it is resistant to alkali and acids as long as the range of pH: 5.5-7.0 is not exceeded in either way. Particularly, in alkaline baths of pH=9 or more the activity of the enzymes is irreversibly injured.

Field of application

- Substrate** : indigo-dyed garments, jeans, pumices
- Aggregate** : drum and rotary dyeing machine
- Operation** : stone-wash effects

Characteristics

Type of product : preparation of cellulase, buffering system and additives

pH (1% sol.) : about 7

Appearance : white/beige granular mixture

Application

Dissolving method : is soluble in water in all proportions.

Guide recipes : The best effect of 0.5-1.0% **Polyzyme ST Conc.** Can be achieved at
pH: 5.5-7.0 (buffered), temp. 45-60°C, L:R = 1:5-1:10, time: 30-60 min.

Storage stability : 6 months in closed original drums at approx. 20°C.

The indications given herein correspond to practical experiences. Owing to the differences in local conditions they cannot claim to be complete, so that any liabilities - also with a view to claims of third parties - are excluded.