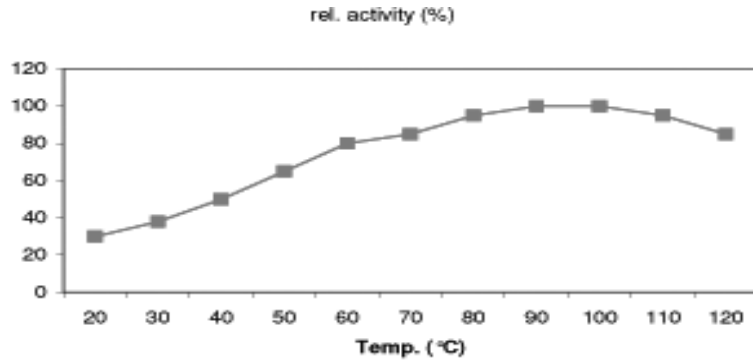


POLYZYME PT Extra Conc.

Hot desizing agent for starch sizes

Chemical type:	bacterial amylases								
Characteristics:	form: liquid Color: brown, clear Odor: ferment-like Solubility: easy to dilute with cold water Ionic character: n. a. PH value: 5.0 – 7.0								
Special properties:	POLYZYME PT Extra Conc. Is a bacterial amylase for the short- period at temperatures from 70 – 110 °C.								
Compatibility:	Copper, zinc and their salts as well as chlorine and other oxidizing agents are enzyme toxins which affect adversely the efficiency of POLYZYME PT Extra Conc. Some wetting agents, e. g. anionic types are delaying the enzymatic degradation of starch.								
Stability:	POLYZYME PT Extra Conc is resistant to weak acids, weak alkali, electrolytes and water hardness.								
Mode of action:	The enzymes cause a rapid degradation of all kinds of starch sizes to dextrans which can be removed with hot and slightly alkaline washing liquors.								
Application:	The duration of treating depending on the process is as follows: <table><tr><td>Autoclaves:</td><td>30 – 60 sec at 110 °C</td></tr><tr><td>Pad-Steam-Process:</td><td>60 – 120 sec at 100 °C</td></tr><tr><td>Jigger:</td><td>1 – 3 passages at 90 – 95 °C</td></tr><tr><td>Winch Becks:</td><td>5 – 10 min at 90 – 95 °C</td></tr></table> The pH-value should be set at 7.5 – 8.5. Water hardness should not be below 7 °dH. Additionally it is recommended to use POLYWET T-CO, a wetting, washing and dispersing agent which accelerates the enzymatic desizing process. POLYWET T-CO allows a rapid wetting of the fabric has a perfect cleaning capacity and is able to disperse the cleavage Products in an excellent manner by boiling out.	Autoclaves:	30 – 60 sec at 110 °C	Pad-Steam-Process:	60 – 120 sec at 100 °C	Jigger:	1 – 3 passages at 90 – 95 °C	Winch Becks:	5 – 10 min at 90 – 95 °C
Autoclaves:	30 – 60 sec at 110 °C								
Pad-Steam-Process:	60 – 120 sec at 100 °C								
Jigger:	1 – 3 passages at 90 – 95 °C								
Winch Becks:	5 – 10 min at 90 – 95 °C								

POLYZYME PT Extra Conc shows following temperature-activity-profile:



To evaluate the desizing effect the fabric must be washed-out carefully.

A short rinsing in cold water is inadequate. To obtain an optimal Pretreated fabric a hot, possibly alkaline washing-out is recommendable

Scope:

Degradation of native starch, starch derivates and their blends as slashing size to water soluble products.

Quantity used:

Autoclave:	0.15 – 0.25 g/l
Pad steam:	0.4 – 1.6 g/l
Jigger:	0.3 – 0.1 g/l
Winch Beck:	0.15 – 0.25 g/l
Continue:	0.9 – 2.0 g/l

Padding process:

3.0 – 10.0 g/l **POLYZYME PT Extra Conc** related to liquor pickup 100 % dry in wet

Storage:

The product is not sensitive to frost.

At a temperature of 25 °C **POLYZYME PT Extra Conc** can be stored at least 6 months in closed original containers without losing its activity. A longer storage period at over 30 °C should be avoided.

Packing:

Polyethylene drums, containers