

Textile

Product application guideline

Novozymes Termamyl® 2X

Sizing is necessary to ensure that yarns are adequately protected during weaving. Modern looms operate at very high speeds, causing excessively high abrasion to the yarn. To obtain high weaving efficiency, an ever-increasing amount of size must be applied. Starch is the preferred sizing agent for cotton/cellulose and blends.

To ensure that fabric is well prepared for dyeing and further processing, all size must be removed adequately and uniformly. The removal of these polymers during sizing results in good absorbency, and therefore good dyeing and printing. Failure to remove the polymers can result in uneven dyeing, poor batch-to-batch shade reproducibility, and problems during printing.

Benefits

Termamyl® 2X is an effective amylase for the total removal of starch-based sizing agents. Since the enzyme only targets the starch, it does not negatively affect the cellulose as is the case with oxidative methods of desizing.

- Effective solubilization and removal of starches
- Excellent biodegradability
- No aggressive chemicals needed, thus maintaining the tensile strength of the substrate
- Safe handling and operation
- Improved wettability
- Improved fabric quality
- Reproducible performance and ease of use

Usage

Termamyl® 2X can be used on a variety of equipment under varying conditions. Refer to table 1 for best application possibilities.

Termamyl® 2X	Operational range	Optimal range
pH	5.5-7.5	6-7
Temperature	50-115°C	>80°C
Time/application	Pad steam: 1-5 min./Exhaust system: 10-20 minutes	
L:R	1:05-1:20	
Dosage	Based on dilution	

Table 1.

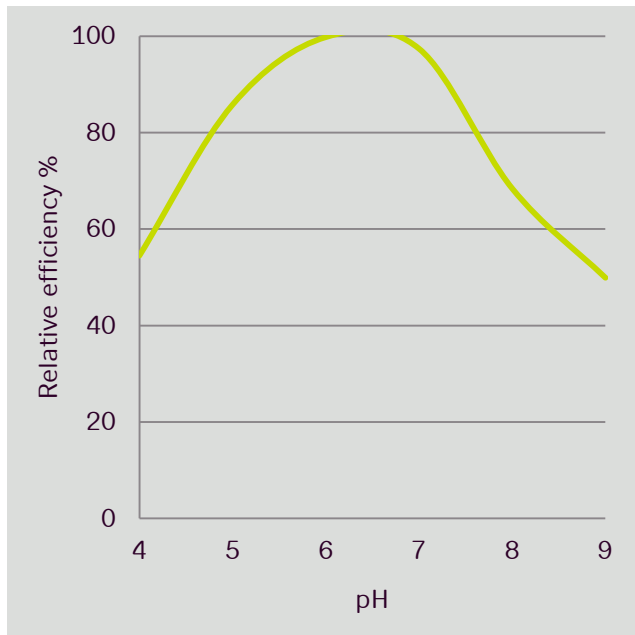


Fig. 1. pH profile of Termamyl® 2X

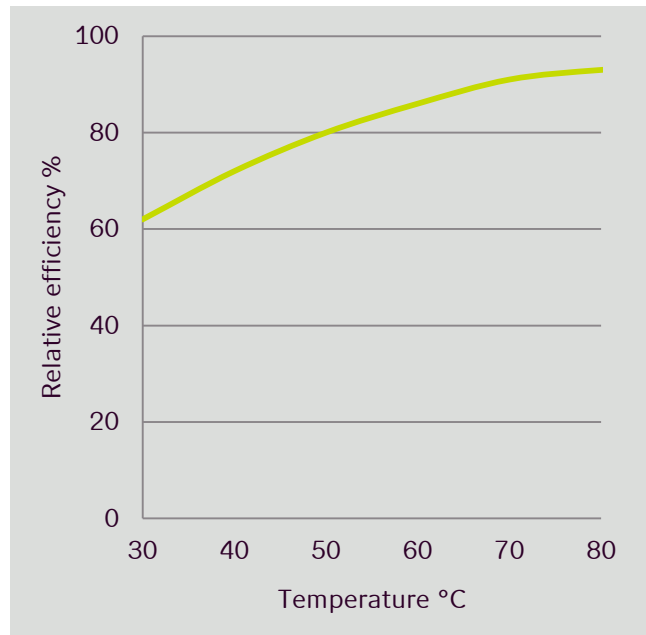


Fig. 2. Temperature profile of Termamyl® 2X

Safety, handling and storage

Safety, handling and storage guidelines are provided with all products.

About Novozymes

Novozymes is the world leader in biological solutions. Together with customers, partners and the global community, we improve industrial performance while preserving the planet's resources and helping build better lives. As the world's largest provider of enzyme and microbial technologies, our bioinnovation enables higher agricultural yields, low-temperature washing, energy-efficient production, renewable fuel and many other benefits that we rely on today and in the future. We call it Rethink Tomorrow.

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