

## Textile

### Product application guideline

# Novozymes Aquazym® Ultra 1200 N

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

Aquazym® Ultra 1200 N is an effective amylase for the complete removal of starch-based sizing agents. Since it only targets the starch, it does not negatively affect the cellulose as is the case with oxidative methods of desizing.

Benefits include:

- 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

## Application and processing

Aquazym® Ultra 1200 N	Operational range	Optimal range
pH	5.0-7.5	5-7
Temperature	40-95°C	55-70°C
Time/application	Pad batch: 2-24 hours/Exhaust system: 10-30 minutes	
L:R	1:05-1:20	
Dosage	Based on dilution	

Table 1.

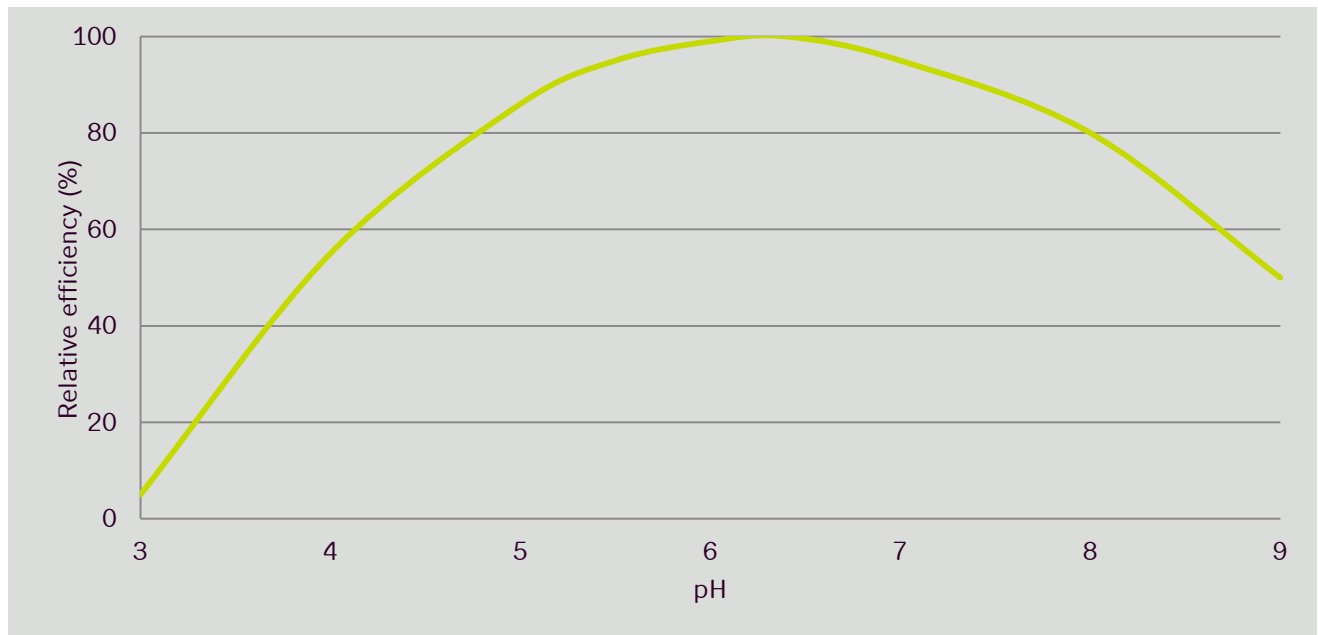


Fig. 1. pH profile of Novozymes Aquazym® Ultra 1200 N

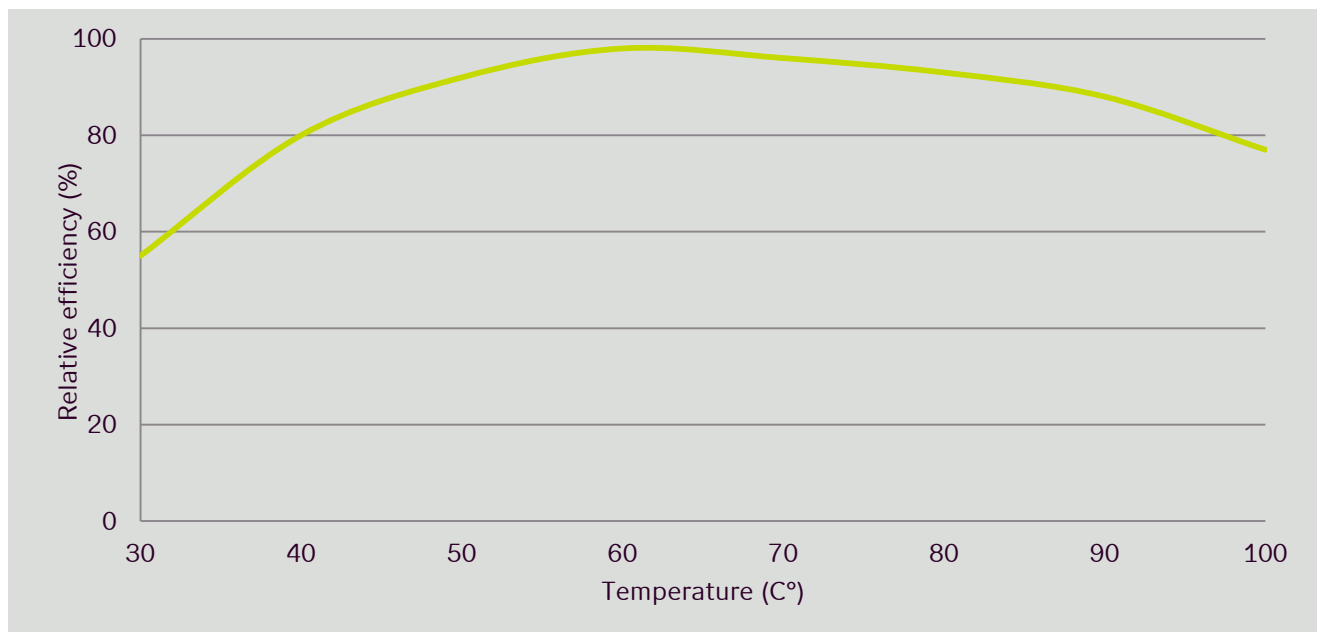


Fig. 2. Temperature profile of Novozymes Aquazym® Ultra 1200 N

## 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.

March 04, 2016 - Luna No. 2016-04027-01

Laws, regulations, and/or third-party rights may prevent customers from importing, using, processing, and/or reselling the products described herein in a given manner. Without separate, written agreement between the customer and Novozymes to such effect, information provided in this document "AS IS" is of good faith and does not constitute a representation or warranty of any kind and is subject to change without further notice.

**Novozymes A/S**  
Krogshøjvej 36  
2880 Bagsvaerd  
Denmark

[novozymes.com](http://novozymes.com)