

# ADI-SIZE ALPHA HT

## Thermo stable bacterial alpha amylase based de-sizing agent

ADI-SIZE ALPHA HT is thermo stable bacterial alpha-amylase based enzyme for the de-sizing of fabrics sized with starch, starch derivatives or with mixtures based on starch.

### USES

ADI-SIZE ALPHA HT can be used in conventional processes under the same conditions as the classical bacterial amylase (derived from *Bacillus Subtilis*), and also in cold impregnation Processes (wide pH range) against conventional enzymes which are restricted to very short pH range.  
It can use for cotton and denim fabrics.

### Properties

<b>Appearance:</b>	<b>Pale to dark brown liquid</b>
<b>Solubility:</b>	<b>Easily diluted with water</b>
<b>Stability:</b>	<b>Wide range of pH and temperature.</b>
<b>Composition:</b>	<b>Alpha amylase</b>
<b>Storage</b>	It is recommended that ADI-SIZE ALPHA HT be stored in a cool place, protected from direct sunlight and away from heating sources. When employed as recommended ADI-SIZE ALPHA HT will not present any hazard. However prolonged skin contact should be avoided.

### Application

#### **VERY HIGH STABILITY OF THE ENZYME BATH IN RELATION TO TEMPERATURE**

ADI-SIZE ALPHA HT can of course also be used for cold impregnation applications (30 to 60°C)

Where it is even more effective than conventional bacterial amylases, such application can be followed by cold storage, steaming or batching and heating. In all cases of cold impregnation, the quantity of enzyme used will of course be higher than in the case of hot impregnation (60°C - 85°C)

As already mentioned, ADI-SIZE ALPHA HT can be used in all classical processes. It is not necessary to modify the De-sizing process when replacing conventional enzymes with ADI-SIZE ALPHA HT.

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NOTE: - The information and data contained herein are based on controlled or lab work. The recommendations are given on Previous experience basis but cannot be extended to cover every possible case. It should be verified and evaluated by The user by testing for the intended conditions of use. AIDA dyes & chemical does not express or imply any Warranty or guarantee. The suitability of the product for the application, intended by buyer of the product

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### ***Suggested Dosage examples:***

The optimum dosage of de-sizing products containing ADI-SIZE ALPHA HT enzyme will naturally depend on dilution factor and de-sizing conditions such as:

- Type
- Nature of size
- Quantity of size
- Fabric construction
- Storage conditions of the sized fabrics
- Process and equipment used
- Subsequent treatments
- Water conditions, water hardness.

**As an example:** With a de-sizing product containing on

***Exhaust:*** 0.3-0.7% ADI-SIZE ALPHA HT enzyme

***Continues:***0.5-1 g/l

According to quality of fabric

Process parameters	Operational range	Optimum range
pH	4.0 – 11.0	5.0 - 9.0
Temperature	30 - 95° C	60- 90° C