

## WALYZME HC

### **Brief Information:**

Enzymatic Desizing agent amylase for **starch** size decomposition.

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|--------------------|--|
| • Composition      | Bacteria Alpha Amylase                               |
| • Appearance       | Clear, medium to dark amber, slightly viscous liquid |
| • pH               | 6  |
| • Specific gravity | 1.10-1.20 g/ml                                       |
| • Solubility       | Soluble in water                                     |

### **General Properties:**

- Can be used in various starch size without damaging the fiber.
- Will remove starch and part of indigo dye from jeans which significantly soften the denim and during later steps will prevent streaks from forming.
- Reduce the dosage of chemicals in a wide temperature range.
- Suitable for the global pursuit of green cotton fabric, eco-friendly, and sustainable development technology.
- **Heat Stability:** The range of effective temperature is 55-105°C; The optimum reaction temperature is 85-100°C.
- When the temperature is lower than 55°C, the reaction is slower, and the action time needs to be prolonged.
- When it is higher than 105°C, it can still maintain considerable vitality, and can withstand the instantaneous temperature of 110-115°C. when liquefaction;
- **pH Stability:** the product is stable at pH 5.0-8.0, and the optimum pH is 5.8-6.5.
- **Dependence on low calcium:** The product has low demand of calcium ion concentration, and 50-70 ppm concentrations is enough. When the production is performed using tap water or underground water, the calcium ions do not need to be extra added.

### **Product Application:**

- In enzymatic desizing process, the amount of the original enzyme is related to the fabric structure, sizing amount, and the technology and equipment used, a pilot test should be carried out for optimization and screening.
- Dipping Method: Usual test process conditions.

### **Dipping Method**

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|----------|-----------------|
| • Dosage | 0.1 -- 3.0 ml/l |
|----------|-----------------|

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- Temperature 85-95 °C
- pH 6-7
- Wetting Agent (Nonionic) 0.5g/l
- Steam time 20-40min

### **Pad Steam Process**

Desizing with steam at 95-105°C for 05 minutes as below

- Dosage 0.5 -- 3 ml/l
- pH 6 -- 7
- Temperature 95 -- 105°C

### **Exhaust Process**

- Dosage 0.1 -- 3 ml/l
- Temperature 95 -- 105 °C
- pH 6.0 -- 7.0
- Time 10 -- 25min

High temperature washing at 90-95°C is recommended after desizing to ensure good results

### **Handling and storage:**

- Observe the usual precautions while handling the chemical. PPE,S should be used.
- **WALZYME HC** does not present any hazard
- The product is stable upto 3 months in sealed container at 25°C
- The product is formulated for textile processes and can not be used in feed or food industries.
- Inhalation of enzyme dust and mist should be avoided. Incase of contact with the skin or eyes, promptly rinse with water for atleast 15 minutes.

### **Packing:**

**WALZYME HC** is available in 30 and 125 kg packing.

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*Our technical data sheets provide directions for the application possibilities of our products. Due to the many different textile variations we are not able to submit a general recommendation. Our recommendations are in line with our present state of knowledge and do not provide any guarantee. Therefore, initial internal bulk trials are absolutely necessary. The manufacturer is not liable for damages due to improper application or application against our explicit recommendation.*