



WHC Lab Ltd., Prospect Lower, Newcastle,  
Co. Wicklow, Ireland, A63H0K8

Document ID:	SPEC-ENZ-P-7
Revision 2	09-Mar-2026
Approved By:	Philip Woodnutt

## Technical Data Sheet WHC High Temp Amylase

### Description

WHC High Temp Amylase is a heat stable alpha-amylase obtained from a selected classical strain of *Bacillus licheniformis*. It rapidly reduces the viscosity of the slurry releasing soluble dextrans as well as small amounts of maltose and glucose at elevated temperatures.

### Usage

WHC High Temp Amylase is best used in processes such as starch liquefaction, alcohol production, and bioethanol manufacturing.

Recommended application dosages range from 250 to 350 grams per ton of cereal.

It works well within a pH range of 5.0 to 7.0 and at temperatures up to 100°C **or** 212°F, with optimal performance at pH 5.4 to 6.5 and temperatures of 80°C to 95°C **or** 176°F to 203°F.

Adding calcium ions in the form of CaCl<sub>2</sub> (50–100 ppm) may be beneficial.

### Ingredients Declaration

Alpha amylase & water (82%)

CAS-No.: 9000-90-2

EC-No.: 232-565-6

Classification according to Regulation (EC) No. 1272/2008 [CLP]: Resp. Sens. 1, H334

NaCl (18%)

CAS-No.: 7647-14-5

EC-No.: 231-598-3

### Manufacturing Process

WHC High Temp Amylase is produced from a selected classical strain of *Bacillus licheniformis*, ensuring compliance with purity standards.

### Technical Specifications

Visual Description	<i>Light brown liquid</i>
Activity	<i>&gt; 12,000 TA Units/g</i>
Optimum Temperature	<i>80°C to 95°C <b>or</b> 176°F to 203°F</i>
pH	<i>5.4 to 6.5</i>

## Packaging

WHC High Temp Amylase is available in 1kg and 25kg drums. These materials comply with relevant food-contact legislation, including, EU Regulation 1935/2004 (materials intended for contact with food), EU Regulation 1245/2020 (plastic materials intended for contact with food), EU Regulation 2023/2006 (GMP for materials intended for contact with food), and FDA CFR 21 (174-179) (USA).

## Storage and Handling

Storage Conditions:	Best stored in its original, unopened packaging under refrigerated conditions, 4°C to 10°C <b>or</b> 39°F to 50°F to maintain maximum activity during storage. Avoid freezing the product and ensure containers are sealed when not in use. Store in a cool place, away from direct sunlight, to preserve its effectiveness.
Shelf life:	As stated on the pack.
Handling:	<i>Handle enzyme products with care; refer to the separate Safety Data Sheet for detailed safety information.</i>

*If you have any questions or concerns about our product please contact us at [lab@whclab.com](mailto:lab@whclab.com)*