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TECHNICAL DATA SHEET

TDS-ENZ349-EN · REV. 02 · 2026-11-03

Industrial Alkaline Xylanase for Pulp and Paper Processing

Alkaline xylanase enzyme that removes xylan for bio-bleaching in pulp and paper processing.

SKU **ENZ349** CATEGORY **PULP AND PAPER ENZYMES** CAS **9025-57-4** GRADE **INDUSTRIAL GRADE**

Industrial grade · Produced by submerged fermentation · Not restricted for transport

WORKING TEMPERATURE	WORKING PH	REACTION TIME	APPLICATION RATE
35 – 65 °C	**6.0 – 9.0**	**45 – 90 minutes**	**10 – 2000 g per ton**
applicable temperature; no optimum stated	applicable pH range; no optimum stated	contact time for the reaction	of dry fiber

SPECIFICATION

IDENTITY

Enzyme type	1,4-β-D-xylanase Typical
CAS	9025-57-4 Typical
Grade	Industrial grade Typical

WORKING WINDOW

Applicable pH range	**6.0 – 9.0** Typical
Applicable temperature	**35 – 65 °C** Typical
Reaction time	45 – 90 minutes Typical
Application rate	10 – 2000 g per ton of dry fiber Typical

Spec = release limit, confirmed on every lot's Certificate of Analysis. **Typical** = normal product behaviour, not a release limit.

STORAGE & PACKAGING

SHELF LIFE
12 months

STORAGE
Store in a cool, dry place away from direct sunlight; keep sealed when not in use

PACK SIZE
1 kg bottle

ORDERING
Online or by e-mail; current price on the product page

APPLICATIONS

Pretreat chemical, mechanical and mixed pulp
Breaks xylan barriers to support pulp processing

Improve washing, filtration and dewatering stages
Increases fiber permeability and water release

Reduce slurry viscosity before pumping and screening
Stabilizes flow control in production lines

Raise pulp brightness during treatment and washing
Supports higher brightness by reducing xylan barriers

Treat printing, writing and packaging paper pulps
Preserves cellulose chain integrity while targeting hemicellulose

DOSAGE

10 – 2000 g per ton
per ton of dry fiber

Applicable pH	**6.0 – 9.0**
Applicable temperature	**35 – 65 °C**
Reaction time	**45 – 90 minutes**
Addition method	**Batch or continuous addition according to process design**

Optimize application rate and contact time by pulp type, equipment and targeted outcome.

Each lot is released against its specification; the lot Certificate of Analysis reports the measured values.

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Online: enzymes.bio/product/industrial-alkaline-xylanase-for-pulp-and-paper-processing

Enzyme preparations are proteins and may sensitise; avoid skin, eye and inhalation contact. This technical data sheet gives the product specification and typical values; it is not a batch certificate. A Certificate of Analysis for the supplied lot accompanies each shipment. Safety Data Sheet on request.

SCAN TO ORDER