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TECHNICAL DATA SHEET

TDS-ENZ178-EN · REV. 02 · 2026-11-03

Alkaline Cellulase For Laundry Detergents

Alkaline cellulase for laundry detergents; removes micro-fibrils and restores fabric brightness.

SKU **ENZ178** CATEGORY **CELLULASE** CAS **9012-54-8** USAGE **DETERGENT AUXILIARIES**

Produced by submerged fermentation · Not restricted for transport · GMO-free

DECLARED ACTIVITY	WORKING TEMPERATURE	WORKING PH	SHELF LIFE
10,000u/g	**25°C-60°C**	**6.0-10.0**	**12 months**
as stated on the product page	no optimum stated	no optimum stated	sealed, see storage below

SPECIFICATION

IDENTITY		
Odor	Slight fermentation smell	Typical
ACTIVITY		
Enzyme activity	**≥ 10,000 U/g**	Spec
PHYSICAL		
Appearance	**Light yellow powder**	Spec
Loss on drying	≤ 8.0 %	Spec
Form	Liquid	Typical
WORKING WINDOW		
Temperature range	25°C-60°C	Typical
pH range	6.0-10.0	Typical
PURITY AND HYGIENE		
Heavy metals	< 30 mg/kg	Spec
Arsenic (As)	< 2.0 mg/kg	Spec
Lead (Pb)	< 2.0 mg/kg	Spec
Total plate count	≤ 10,000 CFU/g	Spec

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
Keep sealed in a dry and cool place and avoid direct sunlight.

PACK SIZE
1 kg / bag

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

APPLICATIONS

Wash automatic and industrial laundry
Removes micro-fibrils and restores fabric brightness

Remove starch stains from clothes
Efficiently removes starch stains on clothes

Reduce caustic soda and sodium tripolyphosphate use
Reduction in use of caustic soda and sodium tripolyphosphate

DOSAGE

0.15-0.5%

recommended application rate; per the product page, no reference quantity stated

Pre-mix	**small amount of detergent first before further processing**
pH range	**6.0-10.0**
Temperature range	**25°C-60°C**

The optimal application rate has to be adapted to the exact cleaning purpose.
Loss of activity occurs beyond these ranges.

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

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Online: enzymes.bio/product/alkaline-cellulase-for-laundry-detergents

Enzyme preparations are proteins that may induce sensitization and cause allergic type of symptoms in susceptible individuals. 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