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TECHNICAL DATA SHEET

TDS-ENZ303-EN · REV. 02 · 2026-11-03

Cold Bleach Enzyme Granules

Cold bleach enzyme granules for oxygen bleach activation in detergent formulations.

SKU **ENZ303** CATEGORY **DETERGENT ENZYMES** CATEGORY **DETERGENT ENZYMES**

Not restricted for transport Industrial grade

OPTIMUM TEMPERATURE	WORKING PH	FORM	RECOMMENDED WASHING TIME
40°C	**9.0–12.0**	**Granules**	**15–20 minutes**
effective range 15–55°C	pH range; no optimum stated	light yellow or blue, readily soluble in water	as stated on the product page

SPECIFICATION

PHYSICAL

Appearance	Light yellow or blue granules Typical
Odor	Slight characteristic odor Typical
Solubility	Readily soluble in water Typical

WORKING WINDOW

Effective temperature range	**15–55°C (optimal at 40°C)** Typical
pH range	9.0–12.0 Typical
Recommended washing time	15–20 minutes Typical

FORMULATION COMPATIBILITY

Compatibility	Stable with enzymes, surfactants, builders, and optical brighteners in powder and tablet detergents 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
Cool, dry, ventilated place at 0–35°C; away from direct sunlight and moisture; keep packaging tightly sealed

PACK SIZE
1 kg aluminum foil bags

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

APPLICATIONS

Boost oxygen bleaching in laundry powder formulations
Enables stain removal and whitening at temperatures as low as 15°C.

Use in cold-water detergent and eco-wash systems
Provides bleaching at 15–40°C, reducing energy consumption.

Formulate fabric care and hygiene products needing gentle bleaching
Provides bleaching and deodorizing without fiber damage.

Add to institutional and professional laundry solutions
Provides sanitizing and deodorizing action alongside bleaching.

DOSAGE

1.5–6.5% (w/w)

w/w, household laundry powder; industrial and institutional detergent 3.0% (w/w)

Product	**Household laundry powder**
Rate	**1.5–6.5% (w/w)**
Industrial and institutional detergent	**3.0% (w/w)**
Blending	**Blend directly with sodium percarbonate or other bleaching components**
Washing time	**15–20 minutes**

Incorporates into standard powder formulations by direct blending.

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

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Online: enzymes.bio/product/cold-bleach-enzyme-granules-oxygen-bleach-activator-for-detergent-formulations

This product contains active biological and oxidizing components. Avoid direct contact with eyes or skin. 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