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TECHNICAL DATA SHEET

TDS-ENZ042-EN · REV. 02 · 2026-11-03

Neutral Cellulase Powder For Denim Fabric Garment Washing

Neutral cellulase powder for denim washing with a declared activity of 2,000u/g.

SKU **ENZ042** CATEGORY **CELLULASE** CATEGORY **CELLULASE, DETERGENT ENZYMES** FORM **POWDER**

Not restricted for transport

DECLARED ACTIVITY	APPLICATION RATE	FORM	SHELF LIFE
2,000u/g	**0.2-0.3% owg**	**Powder**	**12 months**
CMCase, unit defined in specification	for denim	light brown, 1 kg / bag	sealed, see storage below

SPECIFICATION

IDENTITY		
Product type	Neutral cellulase preparation	Typical
ACTIVITY		
Declared activity	**2,000u/g**	Typical
PHYSICAL		
Physical form	Powder	Typical
Color	Light brown; can vary from batch to batch, intensity is not an indication of enzyme activity	Typical
Odour	Normal microbial fermentation odour	Typical
WORKING WINDOW		
Liquor ratio	5:1-20:1	Typical
Time	45-90 minutes	Typical
Inactivation	Above 80°C for 10 minutes, or above pH 8.0 for 10 minutes	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
Keep sealed in a dry and cool place and avoid direct sunlight; slight sedimentation is acceptable and does not impact performance

PACK SIZE
1 kg / bag

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

APPLICATIONS

Wash denim garments to create vintage stone-wash effects without pumice stones
Imparts abrasion and fading effect in bio-washing

Process cotton, hemp, viscose, yarn and Lyocell
Extends use beyond denim

Reduce fabric damage in garment processing
Retains fabric strength

Finish denim with high color contrast
Gives low degree of indigo back staining

DOSAGE

0.2-0.3% owg

Application rate for denim, % owg

Substrate	**Denim**
Liquor ratio	**5:1-20:1**
Time	**45-90 minutes**

Raising the temperature above 80°C for 10 minutes, or the pH above 8.0 for 10 minutes, completely inactivates the enzyme.

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

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Online: enzymes.bio/product/neutral-cellulase-for-denim-fabric-garment-washing

Enzyme preparations are proteins that may induce sensitization and allergic-type symptoms; avoid direct skin contact and consult a doctor if irritation develops. 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