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TECHNICAL DATA SHEET

TDS-ENZ354-EN · REV. 02 · 2026-11-03

Lyocell Dissolving Pulp Activation Enzyme

Enzyme preparation for activating cellulose fibers in Lyocell dissolving pulp systems.

SKU **ENZ354** CATEGORY **ENZYMES FOR TEXTILE INDUSTRY**

Industrial grade · Not restricted for transport

WORKING TEMPERATURE	OPTIMUM PH	OPTIMAL APPLICATION RATE	FORM
35–65°C	**6.0–7.0**	**approximately 0.1%**	**Liquid**
working range; no optimum stated	near-neutral pH range	based on dry pulp weight; range 0.05% to 0.5%	yellow to brown; easily soluble in water

SPECIFICATION

IDENTITY	
Physical State	Liquid Typical
Color	Yellow to brown Typical
PHYSICAL	
Odor	Mild fermentation odor Typical
Solubility	Easily soluble in water Typical
WORKING WINDOW	
Temperature Range	**35–65°C** Typical
Optimal pH Range	**6.0–7.0** Typical
PROCESS	
Reaction time	45 to 90 minutes Typical
Bath ratio	1:7 to 1:25 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
Sealed container in a cool, dry environment; avoid direct sunlight; lower storage temperatures help maintain activity

PACK SIZE
1 kg bottle

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

APPLICATIONS

Activate dissolving pulp before dissolution in NMMO
Improves fiber swelling behavior

Reduce cellulose aggregation in the spinning dope
Enhances dissolution efficiency

Improve uniformity of cellulose solutions
Supports process stability and higher dissolution efficiency

Produce higher-quality Lyocell fibers
Enhances quality of regenerated cellulose fibers

DOSAGE

approximately 0.1%

based on dry pulp weight

Typical range	**0.05% to 0.5%**
Addition point	**Prior to dissolution in NMMO**
Addition method	**Batch or continuous addition**
Reaction time	**45 to 90 minutes**
Bath ratio	**1:7 to 1:25**
Temperature	**35–65°C**

Exact amount depends on pulp characteristics and process conditions.
Enzyme activity is terminated by pH above 10 and/or above 90°C for at least 15 minutes.

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

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Online: enzymes.bio/product/lyocell-dissolving-pulp-activation-enzyme

Individuals with enzyme sensitivity should minimize direct contact; avoid contact with eyes and prolonged skin exposure. 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