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TECHNICAL DATA SHEET

TDS-ENZ175-EN · REV. 02 · 2026-11-03

Acid Protease for Leather Tanning

Acid protease powder for pickling, acid bating and wet-blue reconditioning on the acid side of tanning.

SKU **ENZ175** CATEGORY **ACID PROTEASE** CAS **9040-76-0** EINECS **232-642-4**

Not restricted for transport

FORM	WORKING PH	SHELF LIFE	WET-BLUE RECONDITIONING RATE
White powder	**3.0-6.0**	**12 months**	**0.6%**
slight fermentation odour, soluble in water	no optimum stated	sealed, see storage below	at 40°C; reduce at higher temperature

SPECIFICATION

IDENTITY	
Main component	**Acid protease, main component of the complex enzyme** Typical
CAS number	9040-76-0 Typical
PHYSICAL	
Appearance	White powder Typical
Odour	Slight fermentation odour Typical
Solubility	Soluble in water Typical
WORKING WINDOW	
pH	**3.0-6.0** Typical
Stability	Fine Typical
Suited operations	Pickling, acid bating, wet-blue reconditioning 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 dry and cool place; avoid wetness, rain and sunshine, which reduce activity.

PACK SIZE
1 kg / bag

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

APPLICATIONS

Apply in acid bating of cattle, sheep, goat and pigskin leathers.
Softens evenly without causing loose grain.

Use in pickling and other acid-side tanning operations.
Suited to all tanning operations on the acid side.

Add in wet-blue reconditioning.
Promotes tanning agent absorption and improves dyeing uniformity.

Treat leather to improve pliability and fullness.
Increases the yield of leather output.

DOSAGE

0.6%

recommended application rate for wet-blue reconditioning at 40°C

Wet-blue reconditioning temperature	**40°C**
Acid bating, cattle upper leather	**0.10% - 0.30% on Pelt Wt**
Acid bating, cattle sofa leather	**1.00% - 2.00% on Pelt Wt**
Acid bating, sheep garment leather	**0.50% - 1.50% on Pelt Wt**
Acid bating, goat garment leather	**1.00% - 3.00% on Pelt Wt**
Acid bating, pigskin upper leather	**0.50% - 1.00% on Pelt Wt**
Acid bating, pigskin garment leather	**1.00% - 1.00% on Pelt Wt**

With higher temperature, reduce the application rate.
Test before practical use to meet production conditions and process requirements.

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

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Online: enzymes.bio/product/leather-tanning-enzymes-acid-protease-enzyme-cas-9040-76-0

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