TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

TUXYNIL™ Series – Tuxynil EPK

Enzymatic Peroxide Killer

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Tuxynil EPK is a high-efficiency enzymatic peroxide killer formulated to rapidly decompose residual hydrogen peroxide after bleaching.
Its enzyme-based action ensures gentle peroxide removal without damaging fabric fibers, making it ideal for delicate textiles.

Key Performance Properties:

- **Rapid decomposition of residual hydrogen peroxide through enzymatic activity.**
- **Gentle on fabric, preventing damage and discoloration.**
- **Compatible with a wide range of fibers and bleaching processes.**
- **Improves safety and fabric quality for subsequent processing steps.**
- **Operates effectively under mild temperature and pH conditions.**

Typical Properties:

Property	Specification
Appearance	Clear to slightly cloudy liquid
pH (25 °C)	5.5 – 7.5
Ionic Nature	Nonionic
Water Miscibility	Fully soluble
Activity	Enzyme active
Stability	Stable at pH 5 – 8 and temperatures up to 50 °C

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Application:

- **Add Tuxynil EPK after peroxide bleaching to enzymatically neutralize residual peroxide.**
- **Typical dosage: 0.1 – 0.5 g/L depending on peroxide levels and fabric type.**
- **Operate at mild temperatures (30–50 °C) for optimal enzyme activity.**
- **Suitable for batch and continuous processing.**

Precautions:

- **Avoid exposure to high temperatures (>50 °C) which can denature the enzyme.**
- **Use protective gloves and goggles during handling.**
- **Store in sealed containers away from direct sunlight and heat.**

Packing Size:

Available in 25 kg, 60 kg, and 120 kg plastic drums.

Storage:

- **Store in a cool, dry, and ventilated place below 30 °C.**
- **Shelf life of 6 months in unopened original packaging.**
- **“Best use before end” date marked on product label.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: TUXYNIL™ Series – Tuxynil EPK
Category: Enzymatic Peroxide Killer