TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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TUXYNIL™ Series – Tuxynil PNK

Nonenzymatic Peroxide Neutralizer / Killer

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Tuxynil PNK is a highly effective nonenzymatic peroxide neutralizer designed to rapidly and safely decompose residual hydrogen peroxide after bleaching processes.
It ensures complete removal of peroxide without affecting fabric quality, preparing materials for subsequent dyeing or finishing operations.

Key Performance Properties:

- **Rapid and efficient neutralization of residual hydrogen peroxide.**
- **Nonenzymatic formulation ensures stable performance over time.**
- **Prevents fabric damage or yellowing caused by residual peroxide.**
- **Compatible with a wide range of fiber types and subsequent processing steps.**
- **Easy to handle and apply in textile processing.**

Typical Properties:

Property	Specification
Appearance	Clear to slightly cloudy liquid
pH (25 °C)	6.5 – 8.5
Ionic Nature	Nonionic
Water Miscibility	Fully soluble
Stability	Stable at pH 5 – 9 and temperatures up to 60 °C

Application:

- **Add Tuxynil PNK after peroxide bleaching to neutralize residual peroxide.**
- **Typical dosage: 0.2 – 0.8 g/L depending on peroxide concentration and fabric type.**
- **Mix thoroughly to ensure complete peroxide decomposition.**
- **Can be used in batch, continuous, or semi-continuous processes.**

Precautions:

- **Avoid contact with strong acids or alkalis during handling.**
- **Use personal protective equipment such as gloves and goggles.**
- **Store in tightly sealed containers away from heat and direct sunlight.**

Packing Size:

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

Storage:

- **Store in a cool, dry, and ventilated place below 35 °C.**
- **Shelf life of 12 months in original unopened packaging.**
- **“Best use before end” date marked on product label.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: TUXYNIL™ Series – Tuxynil PNK
Category: Nonenzymatic Peroxide Neutralizer / Killer