TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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HYDROSHIELD™ Series – Hydroshield Pro

High Performance Peroxide Stabilizer

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Hydroshield Pro is a premium-grade peroxide stabilizer formulated to deliver superior control over hydrogen peroxide decomposition during bleaching processes.
It enhances bleaching efficiency, fabric protection, and ensures uniform whiteness and brightness in various textile substrates.

Key Performance Properties:

- **Provides excellent stabilization of hydrogen peroxide under diverse processing conditions.**
- **Reduces fabric damage, pinhole formation, and uneven bleaching.**
- **Enhances bleaching uniformity, brightness, and fabric quality.**
- **Compatible with a wide range of bleaching auxiliaries and detergents.**
- **Effective across a broad pH range and temperature conditions.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	6.0 – 8.0
Ionic Nature	Anionic / Nonionic blend
Water Miscibility	Fully soluble
Stability	Stable at pH 5 – 10 and temperatures up to 90 °C

Application:

- **Add Hydroshield Pro to peroxide bleaching baths to improve peroxide stability and bleaching results.**
- **Typical dosage: 0.1 – 0.3 g/L depending on fabric and process conditions.**
- **Optimize dosage through trials to match specific processing needs.**
- **Compatible with other peroxide stabilizers, detergents, and bleaching auxiliaries.**

Precautions:

- **Avoid mixing with strong acids or incompatible chemicals without proper dilution.**
- **Use suitable personal protective equipment when handling.**
- **Store in tightly sealed containers to preserve product quality.**

Packing Size:

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

Storage:

- **Store in a cool, dry, and ventilated place below 40 °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: HYDROSHIELD™ Series – Hydroshield Pro
Category: High Performance Peroxide Stabilizer