TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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HYDROSHIELD™ Series – Hydroshield ASP

High Alkaline Stable Peroxide Stabilizer

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Hydroshield ASP is a high-performance peroxide stabilizer specially formulated to provide excellent stability to hydrogen peroxide under highly alkaline bleaching conditions.
It controls peroxide decomposition effectively, enhancing bleaching efficiency and fabric protection during high pH processes.

Key Performance Properties:

- **Excellent stability in highly alkaline environments (pH > 11).**
- **Controls hydrogen peroxide decomposition to prolong bleaching action.**
- **Reduces fabric damage and pinholes caused by peroxide instability.**
- **Enhances bleaching uniformity and brightness.**
- **Compatible with common bleaching auxiliaries and detergents used in alkaline conditions.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	11.0 – 13.0
Ionic Nature	Anionic / Nonionic blend
Water Miscibility	Fully soluble
Stability	Stable at pH 10 – 13 and temperatures up to 95 °C

Application:

- **Add Hydroshield ASP to peroxide bleaching baths operating under high alkaline conditions.**
- **Typical dosage: 0.2 – 0.6 g/L depending on fabric and process requirements.**
- **Optimize dosage through pilot trials for best results.**
- **Compatible with peroxide, detergents, and other bleaching auxiliaries.**

Precautions:

- **Avoid mixing with strong acids without dilution.**
- **Use appropriate personal protective equipment when handling.**
- **Store in tightly sealed containers to preserve product integrity.**

Packing Size:

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

Storage:

- **Store in a cool, dry, ventilated place below 40 °C.**
- **Shelf life of 12 months in unopened original packaging.**
- **“Best use before end” date marked on product label.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: HYDROSHIELD™ Series – Hydroshield ASP
Category: High Alkaline Stable Peroxide Stabilizer