TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

HYTHAMEX™ Series – Hythamex XDW

XTREME DETERGENT & WETTING ACCELERATOR

Manufacturer: Tusi Haytham Bio Limited

Product Description:

Hythamex XDW is a high-performance detergent and wetting accelerator formulated to enhance fabric wettability and cleaning efficiency in demanding textile pretreatment and dyeing processes.
It rapidly removes natural oils, waxes, and other impurities, promoting uniform penetration of subsequent treatment chemicals and dyes.
Designed for use in both natural and synthetic fibers, Hythamex XDW excels in both batch and continuous processing systems.

Key Performance Properties:

- **Powerful wetting and cleaning action.**
- **Accelerates penetration of auxiliaries and dyes.**
- **Effective under a wide pH range (acidic to alkaline).**
- **Stable at high temperature and in hard water conditions.**
- **Compatible with a variety of surfactants and process chemicals.**
- **Reduces process time and enhances process efficiency.**
- **Biodegradable and environmentally friendly.**

Typical Properties:

Property	Specification
Appearance	Light yellow clear liquid
pH (25 °C)	6.5 ± 1
Ionic Nature	Nonionic / Anionic blend
Water Miscibility	Fully soluble in water
Foam Character	Low to moderate foam
Stability	Stable to acid, alkali, electrolytes, and hard water

Application:

Hythamex XDW can be used in exhaust, continuous, and jet dyeing processes.

- **Exhaust process: 0.3-1.0 g/L**
- **Continuous process: 1 – 4.0 g/L**

Optimal dosage should be determined by laboratory trials according to fiber type and process conditions.

Precautions:

- **Avoid direct contact with strong oxidizing agents.**
- **If excessive foam is observed, add suitable defoamer.**
- **Store in sealed containers to maintain product quality.**

Packing Size:

Hythamex XDW is available in 60 kg and 120 kg closed-mouth HDPE drums.

Storage:

- **Maximum temperature during storage and transport: 40 °C.**
- **Store in a cool, dry, and well-ventilated area, away from direct sunlight.**
- **Shelf life: 6 months in original sealed packaging.**
- **“Best use before end” date is indicated on the product label.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: HYTHAMEX™ Series – Hythamex XDW
Category: Xtreme Detergent & Wetting Accelerator