TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

FIXTHRA™ Series – FIXTHRA PET

Polyester Fastness Improver – Poor Quality Disperse Dyes
Manufacturer: Tusi Haytham Bio Limited

Product Description:

FIXTHRA PET is a specialized fixing agent designed to enhance color fastness of polyester fabrics dyed with low-quality or unstable disperse dyes.
It improves wash, rub, and sublimation fastness, reduces dye bleeding, and ensures bright, uniform, and durable coloration.
Ideal for polyester dyeing processes where disperse dye quality is variable.

Key Performance Properties:

- **Enhances wash, rub, and sublimation fastness of polyester fabrics.**
- **Reduces dye bleeding and migration.**
- **Improves color uniformity and fabric appearance.**
- **Compatible with common polyester dyeing auxiliaries and processes.**
- **Maintains fabric hand and structural integrity.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	6.0 – 8.0
Ionic Nature	Nonionic / Anionic blend
Solubility	Fully soluble in water
Stability	Stable under normal polyester dyeing conditions
Specific Gravity (25 °C)	1.02 ± 0.02

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Application:

- **Add FIXTHRA PET to the polyester post-dyeing bath.**
- **Typical dosage: 0.5 – 2.0 % owf, depending on fabric type and dye quality.**
- **Operate at 95–130 °C for 20–40 minutes with gentle agitation.**
- **Rinse thoroughly after treatment to remove residual chemicals.**
- **Compatible with dispersing agents, soaping agents, and other polyester auxiliaries.**

Precautions:

- **Avoid direct contact with eyes and skin; wear protective gloves and goggles.**
- **Do not mix with strong acids or incompatible chemicals in concentrated form.**
- **Store in tightly sealed containers in a cool, dry place.**

Packing Size:

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

Storage:

- **Store in a cool, dry, ventilated area below 40 °C.**
- **Shelf life: 12 months from the date of manufacture in unopened containers.**
- **Check product label for “Best use before end” date.**

Issued by:

Tusi Haytham Bio Limited – Technical Division
Product: FIXTHRA™ Series – FIXTHRA PET
Category: Polyester Fastness Improver for Disperse Dyes