TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

CLEANTHRA™ Series – CLEANTHRA PET

Polyester Wash-Off / Reduction Clearing Agent
Manufacturer: Tusi Haytham Bio Limited

Product Description:

CLEANTHRA PET is a specialized reduction clearing agent for polyester fabrics.
It efficiently removes unfixed disperse dyes, residual chemicals, and surface impurities from polyester, ensuring bright, uniform, and soft fabric.
Ideal for post-dyeing wash-off and clearing in high-temperature polyester dyeing processes.

Key Performance Properties:

- **Effectively removes unfixed disperse dyes from polyester fabrics.**
- **Reduces surface impurities without damaging fabric structure.**
- **Improves fabric brightness, hand feel, and uniformity.**
- **Compatible with polyester auxiliaries and reduction clearing processes.**
- **Minimizes chemical consumption and fabric wastage.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	5.0 – 7.0
Ionic Nature	Anionic / Nonionic blend
Solubility	Fully soluble in water
Stability	Stable under normal high-temperature polyester wash-off conditions
Specific Gravity (25 °C)	1.01 ± 0.02

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

Application:

- **Add CLEANTHRA PET to the polyester wash-off or reduction bath after dyeing.**
- **Typical dosage: 0.5 – 2.0 % owf, depending on fabric type and shade depth.**
- **Operate at 95–130 °C for 20–40 minutes, stirring gently.**
- **Rinse thoroughly after treatment to remove residual chemicals.**
- **Compatible with dispersing agents, detergents, and other polyester auxiliaries.**

Precautions:

- **Avoid 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: CLEANTHRA™ Series – CLEANTHRA PET
Category: Polyester Reduction / Wash-Off Agent