TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

CLEANTHRA™ Series – CLEANTHRA LTW

Wash-Off / Soaping Agent – Low Temperature Wash-Off Agent
Manufacturer: Tusi Haytham Bio Limited

Product Description:

CLEANTHRA LTW is a specialized low-temperature wash-off agent designed to remove unfixed dyes and other residues from fabrics at reduced processing temperatures.
It ensures effective cleaning, preserves fabric integrity, and enhances brightness, softness, and uniformity of dyed textiles.
Ideal for use in energy-efficient textile finishing processes, particularly for cotton, polyester, nylon, and blended fabrics.

Key Performance Properties:

- **Efficiently removes unfixed dyes at low temperatures (50–70 °C).**
- **Prevents redeposition of dyes and ensures uniform fabric shade.**
- **Improves fabric brightness, hand feel, and overall appearance.**
- **Compatible with common textile auxiliaries and detergent systems.**
- **Reduces energy consumption and water usage during post-dyeing wash-off.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	7.0 – 9.0
Ionic Nature	Anionic / Nonionic blend
Solubility	Fully soluble in water
Stability	Stable under normal low-temperature washing conditions
Specific Gravity (25 °C)	1.01 ± 0.02

Application:

- **Add CLEANTHRA LTW to the wash-off or soaping bath after dyeing.**
- **Typical dosage: 0.5 – 1.0 % owf, depending on fabric type and dye system.**
- **Operate at 50–70 °C for 20–40 minutes, stirring gently.**
- **Rinse thoroughly after treatment to ensure complete removal of unfixed dyes.**
- **Compatible with other detergents and textile 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 LTW
Category: Low-Temperature Wash-Off / Soaping Agent