TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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TUSCRA ONE™ Series – Tuscra PET

Cotton Scouring & Polyester Dyeing 2-in-1 Agent

Manufacturer: Tusi Haytham Bio Limited

Product Description:

Tuscra PET is a specially formulated 2-in-1 scouring and dyeing assistant designed for simultaneous processing of cotton and polyester fibers.
It offers effective scouring of cotton, removing impurities and enhancing fabric absorbency, while promoting uniform polyester dyeing by improving dye penetration and fixation.
Ideal for blended fabrics, Tuscra PET simplifies processing steps, reduces chemical usage, and improves overall process efficiency.

Key Performance Properties:

- **Efficient scouring action for cotton fibers.**
- **Enhances dye uptake and uniformity on polyester fibers.**
- **Compatible with reactive, disperse, and vat dyes.**
- **Provides good wetting and emulsifying properties.**
- **Stable under alkaline and high-temperature dyeing conditions.**
- **Environmentally friendly and biodegradable formulation.**

Typical Properties:

Property	Specification
Appearance	Light yellow liquid
pH (25 °C)	9.5 ± 1.0
Ionic Nature	Nonionic/Anionic blend
Water Miscibility	Fully soluble in water
Stability	Stable under alkaline and high temperature conditions

Application:

- **Used in combined cotton scouring and polyester dyeing processes.**
- **Dosage: 2 – 3 g/L depending on fabric composition and dyeing method.**
- **Suitable for batch and continuous dyeing systems.**
- **Optimize dosage according to process requirements and fabric types.**

Precautions:

- **Avoid mixing with strong acids or incompatible chemicals.**
- **Use appropriate protective equipment during handling.**
- **Store in tightly sealed containers to prevent contamination.**

Packing Size:

Available in 60 kg and 120 kg closed-mouth HDPE drums.

Storage:

- **Store in a cool, dry, and ventilated area below 40 °C.**
- **Shelf life of 6 months in original sealed packaging.**
- **“Best use before end” date is printed on the product label.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: TUSCRA ONE™ Series – Tuscra PET
Category: Multi-Functional Scouring & Dyeing Agent