TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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TUSCRA ONE™ Series - Tuscra CDS

Integrated Solution for Scouring & Bleaching

Manufacturer: Tusi Haytham Bio Limited

Product Description:

This system combines hydrogen peroxide bleaching with Tuscra CDS, a multifunctional formulation that includes Caustic Soda, Sequestering agents, Peroxide Stabilizers, and Detergent properties.
It is designed for effective and simplified scouring and bleaching of cotton and blended fabrics, ensuring excellent removal of impurities, enhanced bleaching whiteness, and fabric protection—all in one product.

Key Features & Benefits:

- **Tuscra CDS:**
  - **Provides alkaline (caustic) environment for scouring and bleaching.**
  - **Stabilizes peroxide to prevent premature decomposition.**
  - **Sequesters metal ions (Fe, Cu, Mn) that catalyze peroxide breakdown.**
  - **Acts as a detergent to emulsify and remove oils and impurities.**
- **Improved bleaching uniformity and fabric brightness.**
- **Reduced fiber damage and enhanced fabric feel.**
- **Simplifies chemical addition by combining multiple functions.**
- **Stable under high temperature and alkaline conditions.**
- **Environmentally friendly and biodegradable.**

Typical Properties of Tuscra CDS:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	12.5 ± 0.5 (alkaline)
Ionic Nature	Anionic
Water Solubility	Fully soluble
Stability	Stable in peroxide, alkaline and hard water conditions

Application Guidelines:

- **Hydrogen Peroxide Dosage: 3-6 g/L (depending on fabric and desired bleaching level)**
- **Tuscra CDS Dosage: 2 – 4 g/L (added before heating peroxide bath)**

Adjust dosages based on lab trials and process specifics.

Packaging & Storage:

- **Packaging: Tuscra CDS available in 60 kg and 120 kg HDPE drums.**
- **Storage Conditions: Store below 40 °C in a cool, dry place away from sunlight.**
- **Shelf Life: 6 months in original sealed containers.**

Precautions:

- **Avoid mixing with strong acids or incompatible chemicals.**
- **Use personal protective equipment when handling chemicals.**
- **Keep out of reach of children.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: Integrated Hydrogen Peroxide & Tuscra CDS System
Category: Multifunctional Scouring & Bleaching Agent