TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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TUSCRA ONE™ Series – Tuscra LTA

LOW-TEMPERATURE BLEACH ACTIVATOR

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Tuscra LTA is a high-efficiency low-temperature bleach activator designed to enhance bleaching performance at reduced temperatures.
It activates hydrogen peroxide, improving bleaching efficacy on cotton and blended fabrics while minimizing energy consumption and fabric damage.
Tuscra LTA is ideal for continuous and batch bleaching processes where energy saving and fabric care are priorities.

Key Performance Properties:

- **Activates peroxide bleaching at low temperatures (40–60°C).**
- **Enhances bleaching whiteness and uniformity.**
- **Reduces bleaching time and energy consumption.**
- **Compatible with caustic, sequestering agents, and stabilizers.**
- **Stable under alkaline conditions and in presence of peroxide.**
- **Environmentally friendly and biodegradable.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	9.5 ± 1.0
Ionic Nature	Anionic
Water Miscibility	Fully soluble in water
Stability	Stable in alkaline peroxide conditions

Application:

Tuscra LTA is used in continuous and batch bleaching processes to boost peroxide efficiency at low temperatures.

- **Dosage: 0.5 – 2.0 g/L depending on fabric type and process parameters.**
- **Recommended bleaching temperature range: 40–60 °C.**
- **Optimize dosage based on lab trials and specific process requirements.**

Precautions:

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

Packing Size:

Tuscra LTA is available in 60 kg and 120 kg closed-mouth HDPE drums.

Storage:

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

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: TUSCRA ONE™ Series – Tuscra LTA
Category: Low-Temperature Bleach Activator