TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

SOFICA™ C Series – TBIO CS 100

Cationic Softener – Cold Water Soluble
Manufacturer: Tusi Haytham Bio Limited

Product Description:

TBIO CS 100 is a cationic textile softener that is Cold water soluble and designed to impart a soft, smooth, and pleasant hand feel to fabrics.
It is suitable for cotton, polyester, blends, and other fibers, providing improved drape, fabric lubricity, and softness during finishing and after-wash applications.

Key Performance Properties:

- **Provides a soft, smooth, and silky hand feel to fabrics.**
- **Cold water soluble for easy application in finishing and softening baths.**
- **Improves fabric drape and touch without affecting appearance.**
- **Compatible with most textile auxiliaries and dyeing processes.**
- **Reduces static build-up and enhances fabric processability.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow flakes
pH (25 °C)	4.5 – 6.5
Ionic Nature	Cationic
Solubility	Fully soluble in hot water (≥40 °C)
Specific Gravity (25 °C)	0.98 ± 0.02
Stability	Stable under normal textile processing conditions

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Application:

- **Add TBIO CS 100 to cold softening or finishing baths.**
- **Typical dosage: 0.5 – 1.5 % owf, depending on fabric type and desired softness.**
- **Temperature: 40–80 °C, with gentle agitation.**
- **Rinse thoroughly after treatment if necessary.**
- **Compatible with other finishing auxiliaries.**

Precautions:

- **Avoid direct contact with eyes and skin; wear protective gloves and goggles.**
- **Do not mix with strong acids, oxidizers, or incompatible chemicals in concentrated form.**
- **Store in tightly sealed containers in a cool, dry place.**

Packing Size:

Available in 25 kg Bag.

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: SOFICA™ C Series – TBIO CS 100
Category: Cationic Textile Softener (Cold Water Soluble)