TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

DISPERSTH™ Series – DISPERSTH AT400

Dispersing Agent & Leveling Agent – Ensures Smooth, Uniform Dispersion.
Manufacturer: Tusi Haytham Bio Limited.

Product Description:

Dispersing agent & Leveling agent is a levelling agent specifically designed for use in high-temperature and carrier dyeing of polyester fiber and its blends. It has a remarkable effect in improving the dispersing property of disperse dyes. It produces desirable dyeing results without adversely affecting the color yield of the dyestuff used.

Key Performance Properties:

- **Ensures smooth, uniform dispersion of dyes, pigments, and powders.**
- **Prevents sedimentation, flocculation, and aggregation.**
- **Enhances stability of dispersions over time.**
- **Improves color uniformity and reproducibility.**
- **Compatible with a wide range of textile auxiliaries and dye systems.**
- **Easy to use and fully water-soluble.**
- **Low foaming, suitable for rapid dyeing machines.**
- **Good solubility.**
- **Easy to dilute.**
- **Biodegradable.**
- **GOTS 6.0 Certified.**
- **ZDMC Level 3 and OEKO-TEX® ECO PASSPORT Certified.**

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Typical Properties:

Property	Specification.
Appearance	Yellow-brown transparent liquid.
Composition	Polyoxyethylene oleate
pH	Neutral.
Ionic Character	Nonionic.
Solid Content	100
Solubility	Fully soluble in water
Stability	Stable under normal processing conditions

Applications:

- **High temperature/high pressure dyeing method: 0.1-0.2 g/l dosage should not exceed 0.2 g/l as it will affect colour yield.**
- **Carrier dyeing method: 0.5-1 g/l**
- **Add DISPERSTH AT400 to the water or bath before introducing dyes or pigments.**
- **Stir well to ensure complete dispersion.**
- **Compatible with other dyeing auxiliaries and processing chemicals.**
- **Adjust processing parameters based on lab trials for optimal performance.**

Precautions:

- **Avoid direct contact with strong acids or oxidizers.**
- **Use protective gloves and eyewear when handling.**
- **Store in a cool, dry place in tightly sealed containers.**

Packing Size:

Available in 25 kg.

Storage:

- **Store in a cool, dry, ventilated area below 40 °C.**
- **Shelf life: 12 months in unopened packaging.**
- **Check product label for "Best use before end" date.**

Issued by:

Tusi Haytham Bio Limited – Technical Division
Product: DISPERSTH™ Series – DISPERSTH AT400
Category: Dispersing Agent & Leveling Agent.