TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

HYDRA™ Series – Hydrasol LOF 10

LOW FOAMING WETTING AGENT

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Hydrasol LOF 10 is mainly composed of low-foaming modified alcohol polyoxyethylene ether surfactants.
It provides excellent wetting, rapid penetration, and minimal foam generation under acidic and mildly alkaline conditions.
It is suitable for application in pretreatment, dyeing, and finishing processes of various textile substrates and other industrial wetting systems where low foaming is required.

Key Performance Properties:

- Low foaming, high-efficiency wetting agent.
- Biodegradable and meets environmental protection requirements.
- Excellent penetrating and emulsifying properties.
- Stable under high temperature, strong acid, alkali, hypochlorite, hard water, and heavy metal salt conditions.
- Good compatibility with various surfactants and additives.
- Promotes even wetting, minimizes streaks and unlevel dyeing.

Typical Properties:

Property	Specification
Appearance	Colorless to light yellow clear liquid
pH (25 °C)	6 ± 1
Ionic Nature	Nonionic
Foam Character	Low foaming
Water Miscibility	Soluble in water in all proportions

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Property	Specification
Stability	Stable to acids, alkalis, hard water, and oxidizing agents

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Application:

Hydrasol LOF 10 can be used in both **exhaustion** and **continuous** textile processing.

- **Exhaust process:** 0.5 – 1.0 g/L
- **Continuous process:** 2 – 6 g/L

Adjust the dosage appropriately through laboratory sampling and process trials to achieve optimum results.

Precautions:

- Do not mix directly with strong acids or alkalis.
- In case of excessive foaming, add a small amount of compatible defoamer.
- Avoid contamination with cationic products to maintain performance.

Packing Size:

Hydrasol LOF 10 is available in **60 kg** and **120 kg** closed-mouth HDPE drums.

Storage:

- Maximum temperature during storage and transportation: **40 °C**.
- Store in a cool, dry, and well-ventilated area away from direct sunlight.
- **Shelf life:** 6 months in original sealed container.
- The “Best Use Before End” date is indicated on each batch label.

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: HYDRA™ Series – Hydrasol LOF 10
Category: Low Foaming Wetting Agent