TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

# Technical Data Sheet

Date 23.10.2025 Version: thbl-01

**AVIRA™ Series – Avira LFD 20**

**LOW FOAMING DETERGENT & WETTING AGENT**

**Manufacturer: Tusi Haytham Bio Limited**

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**Product Description:**

**Avira LFD 20 is a low foaming detergent and wetting agent designed for use in textile pretreatment and continuous processing systems where high detergency and rapid wetting are required with minimal foam generation.**

**It effectively removes natural impurities, oils, waxes, and processing residues from fibers and fabrics, providing uniform absorbency and improved dyeing performance.**

**The product performs efficiently under both acidic and alkaline conditions, making it suitable for a wide range of textile applications.**

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**Key Performance Properties:**

- **Excellent detergency and wetting properties.**
- **Low foaming – ideal for continuous washing and high-speed processing.**
- **Stable under high temperature, acidic, and alkaline conditions.**
- **Effective in hard water and resistant to electrolyte interference.**
- **Biodegradable and environmentally safe.**
- **Enhances fabric wettability and dye uniformity.**
- **Compatible with most anionic and nonionic auxiliaries.**

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**Typical Properties:**

| Property | Specification |
|---|---|
| Appearance | Colorless to light yellow, clear liquid |
| pH (25 °C) | 7 ± 1 |
| Ionic Nature | Nonionic / Anionic blend |
| Water Miscibility | Soluble in water at all ratios |
| Foam Character | Low foaming |
| Stability | Stable to acids, alkalis, and hard water |

**Application:**

**Avira LFD 20 is suitable for use in exhaust, continuous, and jet processing systems.**

- **Exhaust process: 1.0 – 2.0 g/L**
- **Continuous process: 2.0 – 5.0 g/L**
- **Jet process: 0.5 – 1.5 g/L**

***Optimize dosage through sample trials based on fabric type, process setup, and water quality.***

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**Precautions:**

- **Avoid direct mixing with strong acids or oxidizing agents.**
- **For systems requiring absolute foam control, a compatible defoamer may be added.**
- **Store in sealed containers to prevent contamination.**

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**Packing Size:**

**Avira LFD 20 is available in 60 kg and 120 kg closed-mouth HDPE drums.**

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**Storage:**

- **Maximum temperature during storage and transportation: 40 °C.**
- **Store in a cool, dry, and well-ventilated place away from sunlight and heat sources.**
- **Shelf life: 6 months in original sealed container.**
- **The “Best use before end” date is indicated on each product label.**

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**Issued by:**
**Tusi Haytham Bio Limited – Technical Division**
**Product: AVIRA™ Series – Avira LFD 20**
**Category: Low Foaming Detergent & Wetting Agent**