TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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AVIRA™ Series – Avira LFD 20

LOW FOAMING DETERGENT & WETTING AGENT

Manufacturer: Tusi Haytham Bio Limited

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.

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.**

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.

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.**

Packing Size:

Avira LFD 20 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 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.**

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