TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

Date 23.10.2025 Version: thbl-01

TUSHFIN™ Series – Tushfin AMA
Antimicrobial Agent – Textile Finishing Applications

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Tushfin AMA is a high-performance antimicrobial agent that inhibits bacterial and fungal growth on textiles. It helps prevent bad odor, maintains fabric hygiene, and ensures long-lasting freshness for garments, sportswear, home textiles, and technical fabrics without affecting fabric hand or appearance.

Key Performance Properties:

- **Prevents odor-causing bacteria and microbial growth on fabrics.**
- **Maintains fabric softness, drapability, and handfeel.**
- **Compatible with cotton, polyester, blends, and other textile fibers.**
- **Durable through multiple washing cycles and normal textile processing.**
- **Suitable for padding, coating, or exhaust finishing processes.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
Solid Content	10 – 20 %
pH (25 °C)	5.0 – 7.0
Solubility	Fully miscible in water
Stability	Stable under normal storage and processing conditions

Application:

- **Apply Tushfin AMA via padding, coating, or exhaust finishing processes.**
- **Typical pickup: 1 – 5 % owf depending on fabric type and desired antimicrobial effect.**
- **Dry or cure fabric according to process requirements for optimum performance.**
- **Compatible with softeners, water/oil repellents, and other finishing auxiliaries; optimize formulation via lab trials.**

Precautions:

- **Avoid direct contact with eyes and skin; wear protective gloves and eyewear.**
- **Do not mix with strong acids or oxidizing agents without proper dilution.**
- **Store in tightly sealed containers to maintain product quality.**

Packing Size:
Available in 25 kg, 60 kg, and 200 kg HDPE drums.

Storage:

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

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: TUSHFIN™ Series – Tushfin AMA
Category: Antimicrobial Agent – Textile Finishing Applications