TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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TUSHFIN™ Series – Tushfin APA
Anti-Pilling Agent – Textile Finishing Applications

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Tushfin APA is a high-performance anti-pilling agent formulated to reduce fiber entanglement and surface fuzz on fabrics. It helps maintain fabric smoothness, softness, and appearance while extending the lifespan of garments and textiles. Ideal for knitwear, woven fabrics, and blended textiles.

Key Performance Properties:

- **Reduces pilling and surface fuzz formation.**
- **Maintains fabric softness, drapability, and handfeel.**
- **Compatible with various textile fibers, including cotton, polyester, and blends.**
- **Provides durable performance through multiple washing cycles.**
- **Easy to apply via padding, exhaust, or finishing processes.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
Solid Content	5 – 15 %
pH (25 °C)	5.0 – 7.0
Solubility	Fully miscible in water
Stability	Stable under normal storage and processing conditions

Application:

- **Apply Tushfin APA via padding, exhaust, or finishing bath.**
- **Typical pickup: 1 – 5 % owf depending on fabric type and desired anti-pilling effect.**
- **Dry or cure fabric according to process requirements for optimum finish.**
- **Compatible with softeners, soil release agents, and other finishing auxiliaries; optimize dosage through 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 APA
Category: Anti-Pilling Agent – Textile Finishing Applications