TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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TUSHFIN™ Series – Tushfin FRT
Flame Retardant – Textile Finishing Applications

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Tushfin FRT is a high-performance flame retardant designed to impart durable flame resistance to textiles. It reduces flammability, prevents fire hazards, and ensures compliance with relevant fire safety standards without compromising fabric hand, drapability, or comfort. Suitable for garments, home textiles, technical fabrics, and industrial textiles.

Key Performance Properties:

- **Provides durable flame retardancy on treated fabrics.**
- **Maintains fabric softness, drapability, and handfeel.**
- **Compatible with cotton, polyester, blends, and other textile fibers.**
- **Resistant to multiple washing cycles and normal textile processing.**
- **Suitable for padding, coating, and exhaust finishing processes.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
Solid Content	20 – 35 %
pH (25 °C)	5.0 – 7.0
Solubility	Dispersible in water
Stability	Stable under normal storage and processing conditions

Application:

- **Apply Tushfin FRT via padding, exhaust, or coating processes.**
- **Typical pickup: 5 – 15 % owf depending on fabric type and required flame retardancy.**
- **Dry or cure fabric according to process requirements for optimum fire-resistant properties.**
- **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 FRT
Category: Flame Retardant – Textile Finishing Applications