TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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Appreton™ Series – TBIO APRE S
Fabric Finishing Agent – Firmness Enhancer

Manufacturer: Tusi Haytham Bio Limited

Product Description:
TBIO APRE S is a high-performance fabric finishing agent designed to impart firmness and body to textiles. It provides uniform fabric support without compromising handle, enhancing the structure and appearance of garments, home textiles, and industrial fabrics. Ideal for applications requiring improved fabric resilience and shape retention.

Key Performance Properties:

- **Provides firmness and body to fabrics.**
- **Enhances fabric structure and durability.**
- **Maintains a balanced hand without stiffness.**
- **Compatible with common textile auxiliaries and finishing processes.**
- **Suitable for padding, coating, or exhaust application.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
Solid Content	20 – 35 %
pH (25 °C)	4.5 – 6.5
Viscosity (25 °C)	150 – 400 mPa·s
Solubility	Fully miscible in water
Stability	Stable under normal storage and processing conditions

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Application:

- **Apply TBIO APRE S via padding, coating, or exhaust processes.**
- **Typical pickup: 5 – 15 % owf depending on fabric type and desired firmness.**
- **Cure or dry fabric according to process requirements for optimal performance.**
- **Compatible with softeners, dyes, 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 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: Appreton™ Series – TBIO APRE S
Category: Fabric Finishing Agent – Firmness Enhancer