TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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FIBROCEL™ Series – Fibrocel DSZ
Desizing Enzyme – Textile Finishing Applications

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Fibrocel DSZ is a high-performance desizing enzyme designed to efficiently remove sizing materials from fabrics while improving handfeel and smoothness. It minimizes yarn damage and fiber loss, making it ideal for cotton, blended, and delicate fabrics in textile processing.

Key Performance Properties:

- **Efficiently removes starch and synthetic sizing agents.**
- **Improves fabric softness, handfeel, and drapability.**
- **Smoothens fabric surface with minimal fiber/yarn damage.**
- **Operates effectively under recommended pH and temperature conditions.**
- **Compatible with common textile auxiliaries used in desizing processes.**

Typical Properties:

Property	Specification
Appearance	Light brown liquid
Enzyme Activity	≥ 1000 U/g (specific activity may vary by batch)
pH (25 °C)	5.5 – 6.5
Stability	Stable under recommended storage and processing conditions
Solubility	Fully miscible in water

Application:

- **Prepare an aqueous solution of Fibrocel DSZ at 0.5 – 2 % owf depending on fabric type and sizing material.**
- **Treat fabrics at 50 – 60 °C for 30 – 60 minutes.**
- **Rinse thoroughly after treatment to remove residual enzyme and sizing residues.**
- **Optimize dosage, temperature, and treatment time via lab trials for minimal yarn loss and desired handfeel.**

Precautions:

- **Avoid direct contact with eyes and skin; wear protective gloves and eyewear.**
- **Store away from oxidizing agents, high temperatures, and direct sunlight.**
- **Handle with care to prevent enzyme inactivation.**

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

Storage:

- **Store in a cool, dry, ventilated area below 25 °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: FIBROCEL™ Series – Fibrocel DSZ
Category: Desizing Enzyme – Textile Finishing Applications