TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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SOFISIL™ Series – SOFISIL SS 200

Hydrophobic Silicon Softener – Micro Hydrophobic Silicone
Manufacturer: Tusi Haytham Bio Limited

Product Description:

SOFISIL SS 200 is a micro hydrophobic silicone-based textile softener designed to provide excellent water repellency, smoothness, and soft hand feel at a micro-level finish.
It creates a thin, durable hydrophobic layer on the fabric surface, improving water resistance, drape, and lubricity.
Suitable for cotton, polyester, blends, and delicate technical fabrics, it is ideal for soft finishing, water-repellent treatments, and performance textiles requiring finer hydrophobic properties.

Key Performance Properties:

- **Provides enhanced hydrophobicity with micro-level silicone coverage.**
- **Imparts soft, smooth, and luxurious hand feel.**
- **Reduces surface friction, improving fabric drape and handle.**
- **Compatible with most textile auxiliaries and finishing processes.**
- **Retains performance and water repellency after multiple washes.**

Typical Properties:

Property	Specification
Appearance	Milky white liquid
pH (25 °C)	5.0 – 7.5
Ionic Nature	Nonionic / Hydrophobic Silicone
Solubility	Dispersible in water; forms stable emulsion
Specific Gravity (25 °C)	0.97 ± 0.02
Stability	Stable under normal textile processing conditions

Application:

- **Apply SOFISIL SS 200 in softening or finishing baths or via pad-dry-cure method.**
- **Typical dosage: 0.3 – 2.0 % owf, depending on fabric type and desired hydrophobic effect.**
- **Ensure uniform distribution by stirring or padding.**
- **Compatible with other finishing auxiliaries; optimize processing parameters through lab trials.**

Precautions:

- **Avoid direct contact with eyes and skin; wear protective gloves and goggles.**
- **Do not mix with strong acids, oxidizers, or incompatible chemicals in concentrated form.**
- **Store in tightly sealed containers in a cool, dry place.**

Packing Size:

Available in 25 kg, 60 kg, and 120 kg HDPE drums.

Storage:

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

Issued by:

Tusi Haytham Bio Limited – Technical Division
Product: SOFISIL™ Series – SOFISIL SS 200
Category: Hydrophobic Silicon Softener – Micro Hydrophobic Silicone