

## Technical Data Sheet

### PRODUCT ATTRIBUTES

- LUXSIL is a Polymeric quat softener.
- LUXSIL (10% solution) forms transparent micro emulsion (nano particle size) in water. It provides more inner softness and better bulk to the finished substrate in comparison to other cationic softeners.
- LUXSIL imparts hydrophobicity to the finished substrate with reasonable retentivity.
- LUXSIL gives non-yellowing finish on curing finished fabric below 160 °C.

### TECHNICAL DATA

FORM	
Appearance	Pale yellow paste
Solubility	Water soluble (temp. 60 – 70 °C)
Nature	Cationic (quaternary salt)
Solid content	98 ± 2%

#### Preparation of 10% solution

- Take 9X gms of hot water
- Add X gm of LUXSIL
- Add acetic acid (approx. 1%) to achieve pH of 4–5.
- Stir it for 15—20 minutes for preparing clear solution preferably with high-speed stirrer (1440 rpm).

### APPLICATIONS

SUBSTRATE	TARGET PROPERTIES	RECOMMENDED DOSAGE OF 10% SOLUTION	
		Pad (gpl)	Exhaust (% owg)
Cotton yarn	Cotton yarn Penetration, Softness, Hydrophilicity, Better colour brilliancy of yarn, Bulkiness	N.A	1 to 3
Cotton knit	Inner softness, Sewability, Hydrophilicity for improving the comfort value and better printability with water based inks	10 – 30	1 to 3
Terry towel	Non yellowing, Hydrophilicity, Inner softness	40 – 60	4 to 6
Denim	Body breaking, Inner soft feel for good sew ability, Lubricating agent* in Garment washing and Anti-ozone effect	40 – 50	N.A 1 to 1.5*
Acrylic fiber/yarn	Better colour Brilliancy, Bulkiness, Hydrophilicity	N.A	1 to 2

**Note:**

- 10% solution of LUXSIL stable under ambient temperature condition for 10 days.
- A slight yellowing of white fabric treated with LUXSIL may be caused by prolonged exposure to heat above 160 °C.
- LUXSIL is recommended to be used in combination with silicon softeners to achieve higher surface smoothness with excellent inner softness.

**COMPLEMENTARY PRODUCTS**

- **LUSHFEEL**: Cationic Softener
- **VELVETROL, VELVETROL+, VELVETROL SUPER**: Silicon Softener
- **ZYCROBIAL**: Retentive Antimicrobial, Anti Odour finish
- **Zyterge base T, Zyterge base Super**: Moisture retentive finish

**STORAGE & SHELF LIFE**

- The material should be stored below 40 °C in shaded area.
- The product on ageing may show slight haziness in diluted solution but it does not affect the performance of the product.
- Stable for 12 months on storing in a shade at room temperature.

**DISCLAIMER:**

The information & data contained herein are given in good faith but without warranty. We recommend that before using our products, the customer should make his/her own tests to determine the suitability of the products for his/her own purpose under his/her operating conditions. As the circumstances under which our products are stored, handled and used are beyond our control, we cannot assume any responsibility for their use by the customers.

**LUXSIL**