

**LUXSIL****[Hydrophilicity, softness and anti-ozone]****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 hydrophilicity to the finished substrate with reasonable retentivity.
- LUXSIL gives non-yellowing finish on curing finished fabric below 160 °C.

**Specifications:**

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

**Preparation of 10% solution:**

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

## Application:

SUBSTRATE	TARGET PROPERTIES	RECOMMENDED DOSAGE OF 10% SOLUTION	
		Pad (gpl)	Exhaust (% owg)
Cotton yarn	Penetration, Softness, Hydrophilicity, Better colour brilliancy of yarn, Bulkiness	N.A	1 to 3
Cotton knit	Inner softness, Sew ability, 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** is 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 deg C.
- **Luxsil** is recommended to be used in combination with silicon softeners to achieve higher surface smoothness with excellent inner softness.

## Complementary Products:

1. **LUSHFEEL** : Cationic Softener.
2. **VELVETROL** : Silicon Softener.
3. **ZYCROBIAL** : Retentive Antimicrobial, Anti Odour finish.

## Storage:

- 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.*

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