

## NOBELSOFT YL (Yarn Lubricating Agent)

**NOBELSOFT YL** is an emulsion of special additives & modified OPE that suitable for cotton yarn lubrication after dyeing and acts as denim rope opener. The basic features are - no change in single yarn strength & count strength product, significantly reduced co-efficient of friction against metal surface & good softness.

### Basic Properties:

Appearance: Colorless to yellowish Emulsion.

pH value:  $7 \pm 1$  (1% sol<sup>n</sup>.)

Ionicity: Weak cationic.

Oduor: Product specific.

Solubility: Easily soluble in water.

### Compatibility:

**NOBELSOFT YL** is compatible with cationic and nonionic products. Anionic products cause precipitations.

### Properties and Advantages:

1. **NOBELSOFT YL** is suitable as lubricating softener for the impregnation of yarns applied in exhaust & padding process after dyeing.
2. It is also suitable as denim rope opener.
3. It has a very high affinity to all types of yarns due to unique formulation.
4. It imparts excellent lubrication properties which reduces the yarn friction significantly.
5. It can be applied in wool top, cheese dyeing, rope dyeing machines.
6. Due to its thoroughly balanced affinity, it is suitable for cationic after treated yarns where the bath exhaustion of common yarn lubricants does not suffice.
7. It provides yarns with optimal gliding properties.
8. Extremely effective at preventing static build up.
9. Bath exhaustion lubricant for cotton yarns and its blends with synthetics, specialty for cotton yarns which have been submitted to a cationic after treatment.

### Application:

First adjust the bath pH to 5.0 ~6.0 by acetic acid before adding pre-diluted **NOBELSOFT YL**.

**NOBELSOFT YL** is added to the liquor after pre-dilution. The pH of the liquor is set to 5~6. For preparing the bath cold water (max. 25°C) is used. The lubrication process is started cold. Within 20 minutes the liquor is heated to (40~ 55)°C and the yarn is treated further 10 minutes at the final temperature. For bleached and dyed yarns, a final temperature of 40 °C is sufficient in case of cationic after treated yarns the bath should be heated up to 55°C due to the low affinity of the yarns. Under these conditions water

clear exhaustion is normally archived. The circulation should be 3 minutes inside outside and 3 minutes outside inside.

Best results can be achieved with 1.0 to 3.0 % of **NOBELSOFT YL** applied against the weight of the yarn. For padding, 20-40 g/l of **NOBELSOFT YL** gives optimum finish.

The amount of **NOBELSOFT YL** depends on the kind of textiles fabrics GSM, the weight & form of goods and the handle required.

**Stability:**

**NOBELSOFT YL** is resistant to acids and water hardness. It is conditionally resistant to electrolytes and not resistant to alkali.

**Storage:**

**NOBELSOFT YL** is stable under normal conditions. We recommend protecting the product from direct sunlight and to store it in a dry area at temperatures of (10~35) C.

**Storage stability:**

One Year.

**Package:**

120 kg plastic drum.

**Note:**

The above indications are based on the latest state of our knowledge. Due to different operational conditions and requirements these are guidelines only. A Legally binding assurance cannot be drawn from our indications. Our technician staff will always be at your disposal to support you in testing our auxiliaries and to answer further technical questions. Information on product hazards and toxicity as well as on safety measures are set out in the safety data sheet.