



DYEING

**LEVEGAL<sup>®</sup> RL**

Extreme levelness in reactive dyeing

[WWW.TANATEXCHEMICALS.COM](http://WWW.TANATEXCHEMICALS.COM)

**TANATEX<sup>®</sup>**  
CHEMICALS 

# LEVEGAL<sup>®</sup> RL

Often 'spots' occur in dyeing with reactive dyes in exhaust and pad batch dyeing. Standard dispersing agents based on acrylates or phosphonates are used to prevent dyestuff agglomeration. TANATEX offers a product that increases the solubility of the reactive dyes and achieves a tremendous decrease of spots and leveling problems: LEVEGAL<sup>®</sup> RL.

Four different variables influence the dyeing in general: salt, water quality, cotton pre-treatment and dyestuff quality. In general a dyer uses products in the dyebath that are acrylate or phosphonate based dispersing agents, which do not de-metalize the dyestuff.

The metal ions interact with anionic solubilizing groups of dyes. This lower activity of the SO<sub>3</sub><sup>-</sup> groups results in agglomeration and sedimentation of dyes. To prevent this we use dispersing agents.

However these calcium and magnesium dispersing agents only have a secondary positive effect in the dye solubility. The dispersing agent works by liberating the anionic solubilizing groups, from the cationic hardness that blocks the solubilizing groups.

## How LEVEGAL<sup>®</sup> RL works

- \* increases solubility of the dyes;
- \* decreases the negative effect of salt and hardness on the solubility of dyes without interfering with the yield and the affinity of the dyes to the cotton.

**LEVEGAL<sup>®</sup> RL: EXTREME LEVELNESS**

**LEVEGAL<sup>®</sup> RL improves the solubility of reactive dyes under dyeing conditions.**



Left picture elucidates the agglomerations in the liquor, which means insufficient solubility.

Right picture shows no agglomerations. This demonstrates the positive influence of LEVEGAL<sup>®</sup> RL on the solubility.

**0.1 g/l Turquoise reactive dye**  
**100 g/l salt**  
**80°C 15 minutes**

## Benefits of LEVEGAL<sup>®</sup> RL

- \* Improves the stability of reactive dyes in solution when dyeing cellulosics and PES/CEL blends;
- \* Improves dye diffusion and thus levelness;
- \* Dissolves and disperses impurities in the fiber;
- \* Stable to substances causing water hardness;
- \* Low-foaming;
- \* No tailing and decrease in spots in continuous dyeing.

**TANATEX<sup>®</sup>**  
CHEMICALS

Einsteinstraat 11, P.O. Box 46  
6710 BA Ede, Netherlands

Telephone: +31 318 67 09 11, Fax: +31 318 63 02 36  
E-mail: [info@tanatexchemicals.com](mailto:info@tanatexchemicals.com)  
Internet: [www.tanatexchemicals.com](http://www.tanatexchemicals.com)