



DYEING

LOGIC DYEING

One-bath isothermal scouring
and dyeing concept

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LOGIC DYEING is an innovative concept to process cotton knit goods and their blends. A time saving one-bath isothermal scouring & dyeing procedure enabling higher efficiency, cost reduction and a careful use of energy.

LOGIC DYEING concept consists of two auxiliaries complementing each other:

- ✖ **TANALEV® K-DC 01** is a specially engineered anionic formulation of surfactants providing outstanding scouring, emulsifying and dispersing power.
- ✖ **PLEXENE CA** is a process regulator with strong dispersing action under alkaline condition preventing hardness related precipitations.

Highlights of the LOGIC DYEING concept

- LOGIC DYEING allows to reduce the process time particularly when dull and dark shades have to be processed.
- Filling and draining time can be reduced which leads to less water and energy consumption.
- Lower processing costs will have a positive effect on dye house productivity.
- LOGIC DYEING is less aggressive than traditional alkaline scouring processes therefore protecting cellulosic fibres against degradation and keeping some of the cottons' natural softness.
- Particularly at higher processing temperatures (60°C) the wetting out is superior and more homogeneous.

- Dye substantivity decreases at higher temperatures pronouncing a better levelling during salt phase.
- Fabric processes in rope form has better displacement and changes its position faster at higher temperatures, which minimises the risk of cracking and creasing.

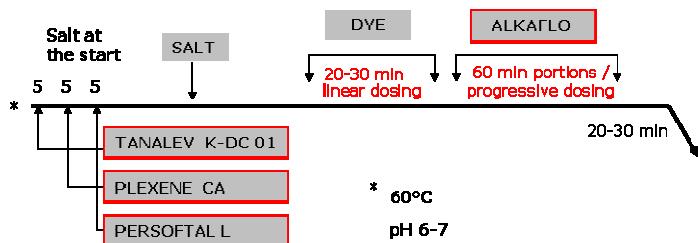
Technical features of TANALEV® K-DC 01

- ✖ Due to its anionic characteristics it does not influence reactive dyes during dyeing processes.
- ✖ Keeps emulsifying and dispersing power during the entire dyeing process.



(1) TANALEV® K-DC 01 (2 & 3) Conventional nonionics

- ✖ It is effective in the whole temperature range even with large amounts of electrolytes. This differs from conventional nonionic products whose turbidity level decreases together with their best characteristics. See photo above.
- ✖ Low foam level compared with other alternative anionic products.
- ✖ Pronouncing Right-First-Time processing.



LOGIC DYEING:

- Less water and energy
- One-bath
- Greige dyeing
- Isothermal
- Cellulosics