

integrity and  
reliability

clarity and  
content

transparency and  
traceability

*moving* **forward**↑



BLU CONNECTION  
people. passion. projects.

NCD by Bluconnection  
Nature Conscious Dyeing



BLU CONNECTION  
people. passion. projects.



NCD by Bluconnection with  
DenimBlu and BluMate - authentic denim without hydrosulfite  
natural reducing agent. stable and safe dyeing. authentic denim.

- DenimBlu
  - pre-reduced indigo for quality denim meeting requirements of denim mills, retailers and consumers.
- BluMate
  - organic reducing and dispersing agent for quality denim meeting requirements of denim mills, retailers and consumers.
  - made from nature, biodegradable, salt free, non-toxic, odourless, easy handling.
  - the natural alternative to the current industry standard hydrosulfite.
  - the first organic reducing agent providing real denim with authentic washing effect.
  - Liquid formulation with no dyebath overflow and stable in solution.
  - significant improvement for dyeing and waste water, biodegradable
    - 95%\* sulphite free effluent
    - 60%\* less salt
    - 5%\* less COD

*\*Figures derived from production trials at a denim mill*

## NCD by Bluconnection fabric shade & washdown effect



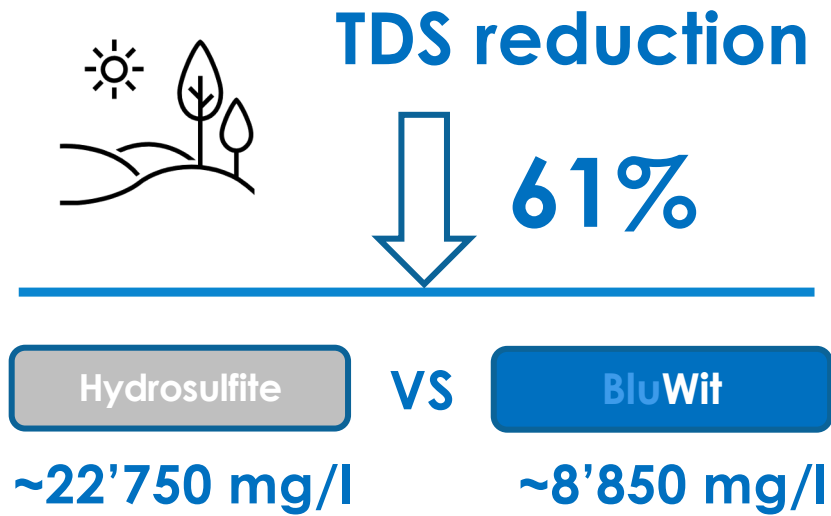
45 min enzyme wash  
+ laser



45 min enzyme wash  
+ bleach

- Progressive washdown effect
- Bright shade with fresh tone

## Total dissolved solids (TDS) reduction for waste water treatment



- Total Dissolved Solids (TDS) reduction load
- case study from rope24 production trial



# Dyeing recipe recommendation\*



## dyebath

- DenimBlu<sup>36</sup> AR: 5 ml/lit – 1.80 g/l
- Caustic soda 50%: 6 ml/lit – 4,6 g/l
- BluMate: 10 g/l

## Feeding

- DenimBlu<sup>36</sup> AR : 390 ml/min
- Caustic soda: 1 l/min (70 ml NaOH 50% per lit water)
- BluMate: 180 ml/min

## parameters

- pH: 12.10 – 12.40
- reduction potential: -700 to -720 mV
- temperature: 50°C

## preparation

- caustification 20° Baume,
- 3 g/l mercerizing agent at 30°C
- 2 hours retention time of dyebath preparation

\* based on 8,0 kg/min of yarn throughput

integrity and  
reliability

clarity and  
content

transparency and  
traceability



BLU CONNECTION  
people. passion. projects.