



**PRE-TREATMENT & FWAs**

# **SUSTAINABILITY**

Sustainable continuous pre-treatment  
of cellulosics and their blends

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

**TANATEX**<sup>®</sup>  
CHEMICALS 

**Water is still an important ingredient for wet processing of textile. Producing textiles with a responsibility for our environment is becoming increasingly more important.**

Reduction of water- and chemical consumption is the main objective of the process- and application developments of today.

Focusing strongly on process optimizations by using the correct combinations of auxiliaries, will provide you with modern and sustainable processes.

The recent product developments of TANATEX Chemicals provide the possibility to obtain high quality standards using sustainable processes.

For example:

- \* TANNEX® RENA liquid 01 – Low alkali – H<sub>2</sub>O<sub>2</sub> stabilizing system;
- \* TANATERGE® ADVANCE – High concentrated detergent concept.

### Pad batch pre-treatment of woven fabrics



<b>Enzymatic desizing</b>	
Impregnate at 60 - 80°C Wet pick up 100% Batch for 4 - 6 hours	
4 - 8 ml/l	<b>TANAZYM® LTC 01</b>
4 - 8 ml/l	<b>PLEXENE PREP</b>
Wash off at 95°C Use approx. 2 - 4 l water/kg fabric	

<b>Cold pad batch bleaching (Inorganic)</b>	
Impregnate cold Wet pick up 100% Batch for 14 - 24 hours	
10 - 15 ml/l	<b>TANNEX® RENA liquid 01</b>
3 - 5 ml/l	<b>TANATERGE® ADVANCE</b>
5 - 10 g/l	NaOH 100%
40 - 60 ml/l	H <sub>2</sub> O <sub>2</sub> 35%
Wash off at 95°C Use approx. 2 - 4 l water/kg fabric	

<b>Cold pad batch bleaching (Organic)</b>	
Impregnate cold Wet pick up 100% Batch for 14 - 24 hours	
4 - 8 ml/l	<b>TANNEX® DB</b>
3 - 5 ml/l	<b>TANATERGE® ADVANCE</b>
15 - 25 g/l	NaOH 100%
40 - 60 ml/l	H <sub>2</sub> O <sub>2</sub> 35%
Wash off at 95°C Use approx. 3 - 5 l water/kg fabric	

### Environmental data and ecological standards

Environmental awareness is a keyword in modern textile processing. Therefore TANATEX Chemicals has developed a wide range of products complying with the latest environmental guidelines and ecological standards such as Öko-Tex 100, EKO label and Restricted Substances Lists (RSL's) of various brands and retailers. Apart from TANAZYM® LTC 01, all aforementioned products meet with GOTS requirements.



## Pad steam bleaching

Pad steam SHOCK bleaching
High-add-on impregnation Steam for 1 - 5 minutes
3 - 5 ml/kg <b>TANNEX® DB</b> 2 - 3 ml/kg <b>TANATERGE® ADVANCE</b> 10 - 15 ml/kg NaOH 100% 20 - 35 ml/kg H <sub>2</sub> O <sub>2</sub> 35%
Wash off at 95°C Use approx. 3 - 5 l water/kg fabric
Neutralization at 60°C using <b>TANACID® UNA</b>

Pad steam ROLLER BED bleaching
High-add-on impregnation Steam for 10 - 30 minutes
8 - 10 ml/kg <b>TANNEX® RENA liquid 01</b> 2 - 3 ml/kg <b>TANATERGE® ADVANCE</b> 5 - 8 ml/kg NaOH 100% 20 - 35 ml/kg H <sub>2</sub> O <sub>2</sub> 35%
Wash off at 95°C Use approx. 2 - 4 l water/kg fabric
Neutralization at 60°C using <b>TANACID® UNA</b>

## TANATEX Chemicals product information

### \* TANAZYM® LTC 01

α-Amylase enzyme mixture containing surfactants, showing a high wetting capacity and is low foaming. Stable towards sequestering agents, effective over a wide pH range (pH 4 -9.5).

### \* PLEXENE PREP

Sequestering agent for the removal of Ca, Mg and heavy metals under neutral conditions. Ensures uniform bleaching properties and thus high whitenesses. PLEXENE PREP pre-treated fabrics show higher absorbencies.

### \* TANNEX® RENA liquid 01

Ecological stabilizer for low alkaline H<sub>2</sub>O<sub>2</sub> bleaching. Suitable for cold pad batch, pad roll, pad steam and under-liquor bleaching procedures. Very mild bleaching conditions resulting in very high whiteness and very good Dp values.

### \* TANNEX® DB

Organic stabilizer for alkaline H<sub>2</sub>O<sub>2</sub> bleaching. Primarily for cold pad batch and pad steam bleaching processes. Extremely high iron complexing power.

### \* TANATERGE® ADVANCE

High concentrated non-ionic detergent with good wetting capacity in greige and strong emulsifying capacities. Highly biodegradable, low foaming and non gelling detergent.

### \* TANACID® UNA

Concentrated neutralizing agent for bleached, mercerized and dyed fabrics. Provides good core neutralization meeting the Öko-Tex 100 requirements.

TANNEX® RENA liquid 01, TANNEX® DB and TANATERGE® ADVANCE are all perfectly suitable for the different **High-Add-On** dosing systems. The viscosity and solubility of each product meets the requirements for high-add-on dosing and impregnation.



**TANATEX Chemicals B.V.**

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

Telephone: +31 318 67 90 11

Fax: +31 318 63 02 36

E-mail: [info@tanatexchemicals.com](mailto:info@tanatexchemicals.com)

Internet: [www.tanatexchemicals.com](http://www.tanatexchemicals.com)