



## TITRATING APPARATUS

In the process of viscose (rayon) fiber and filament production, the bleach bath concentration has essential impact on the end result and continuous monitoring thereof is a key factor in achieving optimum product quality.

**TALI 400 B** determines the sodium hypochlorite concentration of the bleach bath by means of continuous online titration analysis. All over process control is achieved by using the output signals for automatic dosing of NaOCl to keep the concentration within pre-set limits.

Using **TALI 400 B** for bleach bath control means reduced deviations of bleach bath concentrations with stabilized product quality as a result. The on-line measurement and process control reduce costs for labor, input of chemicals and enhances reproducibility and accuracy since there is no human impact on the measurement.

The benefits of **TALI 400 B** have been proven for more than 20 years in numerous Viscose productions worldwide.

PROCESS CONTROL

### Scope:

Titrating apparatus for continuous online analysis of the bleach bath in viscose (rayon) fiber- and filament productions to determine the concentrations of NaOCl (natrium hypochlorite) for consequential process control, using industrially standardized signals.

### Method:

Automatic procedure based on the principle of pH titration: Solutions of alkaline  $\text{KMnO}_4$  (potassium permanganate) and  $\text{Fe}^{++}$  are added to the spinbath. The amount of  $\text{KMnO}_4$  required to reach the equivalence point between the alkaline solution and the acid bleach bath allows for calculation of the concentrations of NaOCl.

### Results:

The effective concentration values are displayed graphically together with set tolerance limits. A measurement history view presents detailed information about each measurement together with time stamps.

### Measuring ranges:

NaOCl 0 - 6 g / l

### Reproducibility:

NaOCl  $< \pm 0.5$  g / l

### Measurement frequency:

Programmable

### Output signal:

Analogous 0 - 20 mA or  
4 - 20 mA for measurement  
value and controller

### Closed control loop:

The output signals can be used for automatic dosing and control of NaOCl to maintain the concentration within set limits

### Alarm levels:

Can be specified individually according to requirements

### Ambient conditions:

Temperature max. 35 °C  
Relative humidity max. 90 %, not condensing

### Dimensions:

Height: 1600 mm  
Width: 1040 mm  
Depth: 725 mm  
Weight: approx. 170 kg

### Electrical mains supply:

230 / 115 VAC  $\pm 10$  %, 50 / 60 Hz, 40 W mono phase triple wired (direct connection)  
Phase - neutral feeder - ground connection

Technical data and pictures are subject to change!

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