

Rev.: 001 Issued August 2014
Read this package insert carefully before use

REF 05-6100-01

Sticky Control Reagent

INTENDED USE

This kit contains a ready-to-use staining solution for the fluorescent staining of fibers, fines, stickies, and pitch particles in wood pulp suspensions used in paper production. Sticky and pitch particles may create a blockage of the paper sieving process depending on particle concentration, pH, temperature and other factors. A flow cytometric analysis of wood pulp prepared with *Sticky Control Reagent* provides information about particle concentration, size distribution and chemical characterization.

Stained samples can be analyzed on a flow cytometer with a blue laser light excitation.

KIT COMPONENTS

Packing contains reagents for 100 tests:

- 1 ml Solution A

INSTRUCTIONS

Sample preparation:

- put 100 µl of pulp suspension in a sample tube (code no. 04-2000)
- add 10 µl *Solution A*
- incubate for 5 minutes at room temperature in the dark
- add 900 µl aqua dist. for dilution
- filter diluted sample through a 50 µm *CellTrics*® disposable filter (code no.: 04-0042-2317)
- analyze filtered and stained cell suspension with a flow cytometer

Instrument requirements:

A flow cytometer equipped with blue laser light excitation (488 nm), capable of analyzing forward scatter (FSC), side scatter (SSC) and red fluorescence detecting parameter.

Instrument settings:

- Laser light source: 488 nm
- Trigger: FSC
- Speed: 1 µl/sec (higher for low cell concentrations; dilute sample when counting rate exceeds 1000 particles/sec)

For instrument alignment and quality control, please refer to the IFU of your Flow Cytometer.

Data analysis:

- particle size will be obtained by FSC and SSC signals
- the detector of the red fluorescence light indicates the hydrophobic character of the stained particles
- for counting result consider the dilution factor of each pulp suspension sample

STORAGE AND STABILITY

Storage: 2-8°C in the dark

Shelf life: please refer to the expiry date labeled on the bottle.

DISPOSAL PROCEDURE

Disposal procedure should meet requirements of applicable local regulations.

MANUFACTURER

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