



FORSCHUNG

BERATUNG

MESSTECHNIK

WEITERBILDUNG

Paper Technology Specialists
Services in the paper value chain

Services offered by the PTS Pilot Plant

Evaluating the efficacy of deaerators/ defoamers

Objectives and Methodology

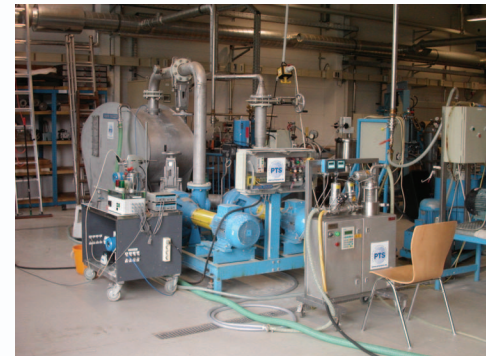
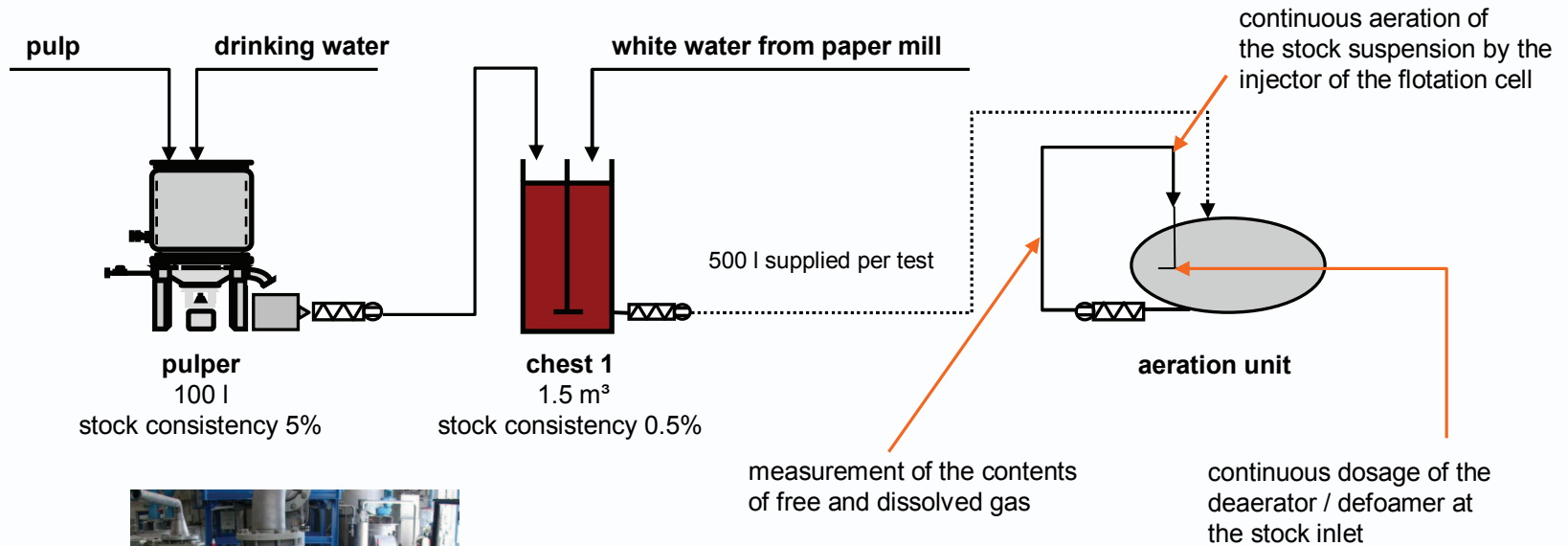
Objectives

- To evaluate the efficacy of deaerators/defoamers for preparing their large-scale use while taking into account:
 - the circuit water loading, and
 - the process temperature

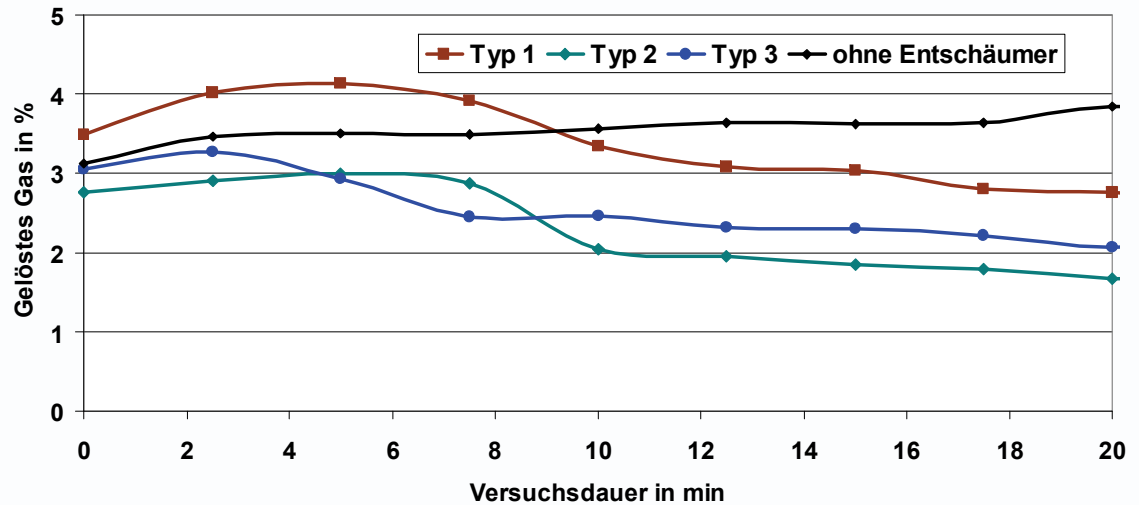
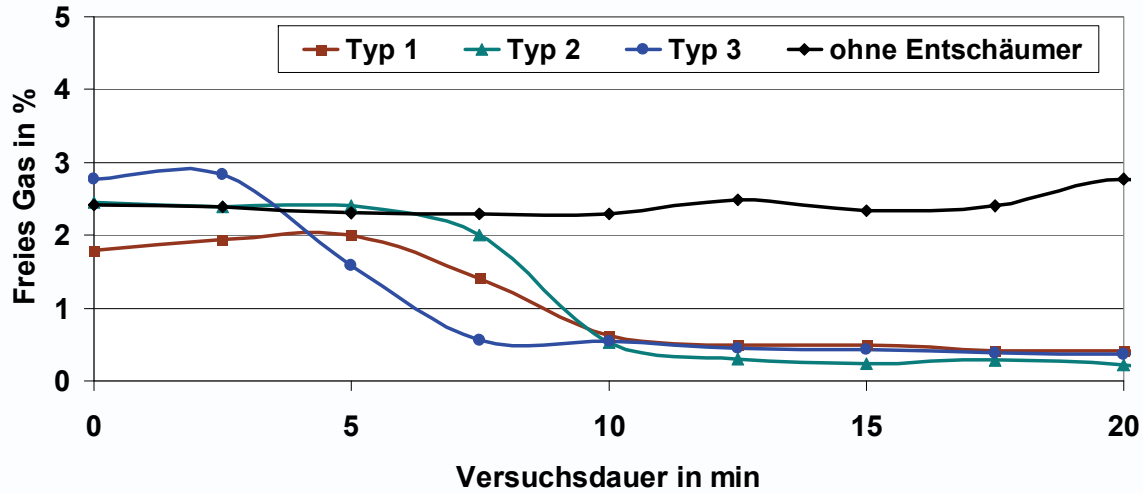
Methodology

- Use the circuit water from a paper mill
- Add defined amounts of repulped solids (e.g. DIP pulp and other process chemicals)
- Adjust the temperature and set a predetermined gas content
- Add the defoamer continuously and measure the change in the content of free and dissolved gas

Test bench



Results



Benefits

- Practical evaluation of deaerators/defoamers using circuit water from a paper mill at a process temperature and mechanical stress (pumps) without the danger of process disruptions or failure
- Production of reproducible, even extreme, conditions (e.g. elevated temperatures) that are virtually to absolutely impossible to duplicate in large-scale production
- Testing of a large number of developmental products under comparable conditions within a short time
- Reproducibility of the results by determining the gas content according to a physically defined method
- Little investment owing to the small amounts of sample material

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