

Modern Deposit Control at Steinbeis Papier

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Inorganic, organic and microbiological deposits in the inner paper machine water loop are very hard to prevent. This is true especially if the fiber material for the paper production consists of 100% DIP. To prevent these deposits and the subsequent damages biocides are used at several stages in the water circuit.

Objective of the presented investigation was to find an alternative respectively a substitution of classical biocides to improve the ecological and economic situation of deposit control. The impact of several dispersing agents has been investigated. An online deposit sensor arranged in a bypass of the white water was installed to evaluate the efficiency of the products under practical conditions. Several products employing different physico-chemical mechanisms were used under clearly specified flow rates. An additional bypass sensor was arranged as control (without any addition of chemicals).

Based on the first results, the three best products have been re-tested. After which the most efficient product should be tested in an on-machine trial.