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Research area: Process aims

Pulp production // Recovered paper treatment

Key words:

Deinking, prints with cohesive and cross-linked inks

TITLE:**Process oriented deinking of prints with cohesive and cross-linked inks in laboratory scale Part 2****Background/Problem area**

The technology changes in printing industry from standard technologies (coldset / heatset, rotogravure) to individual solutions based on digital printing. Some printed products with cohesive and cross-linked inks are "not suitable for deinking" according to ERPC Deinkability Score. The impact of additional process steps on deinking potential of prints with cohesive and cross-linked inks should be analysed in the INGEDE project 130 09. In lab scale a methodology should be developed to simulate 2 loop deinking process.

During the project period, the project team decided changes in the work program. The original research program could not be finalised so far. There is a need for further research regarding the impact of additional process steps on deinking potential of prints to simulate 2 loop deinking process in lab scale.

Objectives/Research results

The objective is a continuation of INGEDE project 130 09. The target of the project should characterise the deinking potential of prints with cohesive and cross-linked inks based on different available technologies. It should be shown the actual situation of such prints recycling by using technologies which represent the state of the art of deinking lines. Pulping, dispersing and flotation have to be tested by using different parameters.

Application/Economic benefits

The project will improve the understanding in deinking behaviour of digital prints and lead to a more comparable and repeatable methodology for its characterisation.

Period of time: 01.08.2011 – 31.10.2012

Remarks

The research project INGEDE 130 is being funded by the International Association of the Deinking Industry INGEDE e.V.