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Research area: Process aims

Pulp production // Recovered paper treatment

Key words:

Deinking, Quality of deinked pulps

Subject:

Characterization of recycled pulps by comparative studies in INGEDE member companies (2005)

Background / Problem area

The quality profile of deinked pulps (DIPs) depends on the quality of recovered papers, on the installations available in recycling plants, and on the process chemicals used. Moreover, DIP qualities are determined by the specific requirements imposed on recycled-fibre based papers. The quality differences resulting from these criteria were identified within the framework of the INGEDE projects "Characterization of DIPs I, II and III". Comparative studies were carried out in the years 1996, 1999 and 2002 to investigate deinked pulps from all INGEDE member companies. For the first time, the studies have identified comparable quality attributes among different undeinked and deinked recycled pulps produced in industrial deinking plants. Upon completion of the projects, the project delegates suggested that appraisals of the actual state should be conducted every three years in order to keep track of quality changes occurring in DIPs.

Objective / Research results

The project is aimed at characterizing undeinked and deinked industrial recycled-fibre pulps whilst taking recovered paper compositions and the technological conditions of the recycling plants into consideration. Based on the findings of the projects "Characterization of DIPs", quality changes in DIPs are to be identified and analysed.

Application / Economic benefits

The project updates the data material and gives an actual overview about trends in the development of the recovered paper quality and the resulting changes of DIP parameters and the process technology. The information could be used for project and public relation work of INGEDE with the aim to increase the recyclability of recovered paper for deinking.

Project period: 1st November 2004 – 31st March 2006

Remarks

The INGEDE 9804 PTS research project is being funded by the International Association of the Deinking Industry INGEDE e.V.