

Unique solution for the quality monitoring of paper for recycling



Reliable, robust, reproducible, proven in industry

Users benefit greatly from the innovative, reliable quality monitoring technology developed by PTS: The combination of continuous sampling (following INGEDE method no. 7) and mass flow-related evaluations makes it possible to assess the quality of paper for recycling within minutes at an extremely high level of confidence.

Background

The fluctuating quality of paper for recycling is the main disruptive element in the production of recycled fibre pulps for paper-making. The varying composition of papers for recycling results in fluctuating shares of ash and sticky contaminants and inconsistent deinking behaviour of graphic papers.

Varying ash levels have an effect on the strength properties of paper products, and the ratio between newspapers and magazines is a key influence on optical properties like brightness. Single consignments with unwanted components can cause heavy losses in product quality and plant availability.

Solution

The continuous quality monitoring of papers for recycling directly on the feeding belt enables plant operators to quickly respond to quality fluctuations: The PTS technology provides all data needed to adjust the feeding and process control systems of the treatment plant.

Quality monitoring of paper for recycling - aims and benefits

- » Continuous measurement of the quality parameters of loose or baled papers for recycling directly on the feeding belt
- » Measurement and evaluation across the entire belt width
- » Mass flow-related evaluations
- » Generates input for process and quality control systems
- » Short response time for adjustments in the process control system of treatment plants
- » Avoids disturbances in treatment or production processes caused by varying compositions of critical papers for recycling
- » Increases the efficiency and availability of plant systems and equipment
- » Enables the assessment of suppliers of paper for recycling

What can the technology do for you?

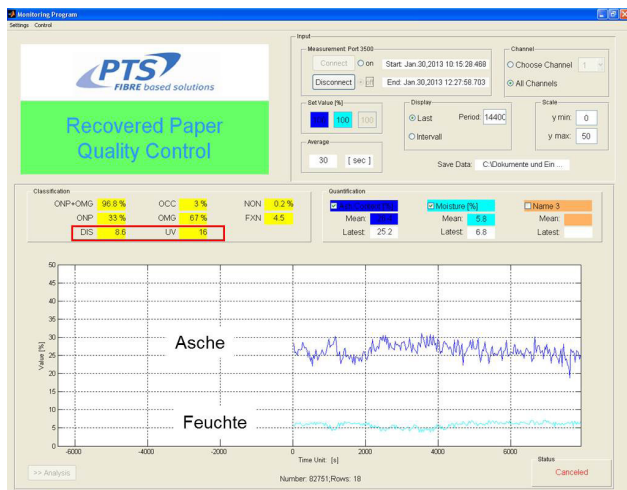
Measurement parameters

Bestimmung von:

- » Ash content
- » Share of plastics
- » Moisture
- » Shares of papers coated with UV or dispersion varnishes
- » Share of flexoprinted newspapers
- » Share of deinking papers
- » Ratio between newspapers and magazines
- » Share of packaging papers (corrugated board, folding cartons etc.)

Evaluation results:

- » Graphic representation of parameter developments
- » Display of numerical results over pre-defined time or quantitative intervals (e.g. pulper charges)
- » Input values for process control system
- » Archived measuring data, optional: forecasted quality parameters of final paper products



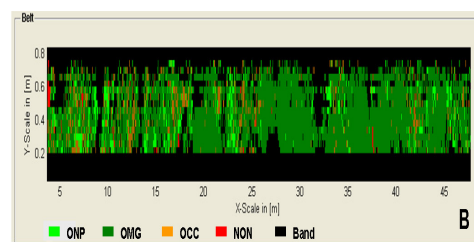
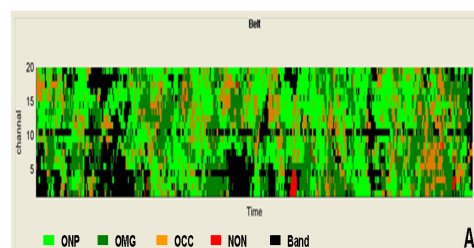
Parameter developments

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Visualised composition