



UNISORT[®]-Analyser

Quality control with NIR online analysis

Quality control of substitute fuels with UNISORT online analysis

Increasingly, customers are demanding continuous real-time analysis of the materials being used in the production of substitute fuels (SF) for thermal recovery.

Many common sampling methods and subsequent analyses used in practice in today's laboratories have very high costs.

Usually, the analysed samples only reflect the nature of the samples themselves. In addition, the analyses cannot be accessed and utilized within a short time of the samples being taken. The real-time analysis provided by the UNISORT Analyser offers a solution for continuous, real-time quality control using HSI technology.



Calorific value detection

PVC content

Moreover, the real-time analysis also detects and continually documents fluctuations in the quality of the substitute fuel.

The UNISORT Analyser as a base for efficient quality management for substitute fuels in conjunction with the UNISORT PR.

The analysis technology uses near-infrared spectroscopy for material identification and compares it to a materials database for the statistical calculation algorithms. Parameters such as the caloric value, PVC content and water content of the

SF are calculated in real time based on statistic data and are transmitted to a plant control system as a trend value.

Plant processes for the production of substitute fuel and for the thermal recovery of the SF can be influenced and controlled close to real time with the help of UNISORT online analysis. The permanent and immediate storage of scaled measurement continuously documents the quality of the substitute fuel. In this way, the online analysis becomes an important instrument for the quality control of substitute fuels.

UNISORT®

**Always be informed
— whether you're on
the job or on the road!**



Recording and storage of data:

- Calorific value in MJ/kg
- PVC content in %
- Material composition in %
- Water content in %
- Belt load, plant utilization
- Valve statistics
- Plant downtime

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