Quality Control Solutions for Wood Pellets

Laboratory and Process Instruments and Support
Perten Instruments solutions for wood pellets

Wood pellets production requires mills to operate at low costs through improved efficiency, and at the same time meet customer’s requirements. Perten Instruments offers analytical instruments that helps wood pellets producers to meet these demands:

• Our instruments are designed to help you save.
• Our instruments are designed to help you improve quality and consistency.

Wood pellets

Wood pellets are used both by industrial users like municipal power suppliers and in smaller stows for heating private houses. The product requirements vary depending on the end users demands. Different products standards have been established, like for instance the EN Plus certificate.

It is important for producers to ensure that the product quality consistently meet the required demands.

Parameters like ash content, moisture, density, durability and energy content are quickly analysed with near infrared instruments – either in real-time on-line or at line.
Raw material

1. Knowledge of raw material properties is important in order to obtain the correct product properties. Full quality information of incoming raw material means you can pay for what you actually receive – not what you specified.

- Our NIR instruments such as the DA 7250 determine extractives, ash, moisture and more in wood in as little as 6 seconds.
- Our on-line NIR instruments such as the DA 7300 and DA 7440 determine process and quality parameters continuously.

Optimize your process

Monitoring and controlling the production process is key to efficient production and profitability. Drying, pelletization etc. can be optimized using NIR instruments from Perten, on-line and at-line.

2. Match wood raw material properties with desired product properties by on-line moisture and extractives measurement.

3. Optimize dryer operation, avoid over-drying wood by precise and stable on-line measurement.

4. Maximize line speed and process efficiency by on-line or at line measurement of pellet quality.

5. Secure and document quality of shipments with on-line or at-line NIR measurements of product quality.
Recommended products

**DA 7250 NIR Analyzer** – Fast, accurate, easy-to-use, versatile – Six second analysis of wet or dry wood chips and wood pellets. Measure parameters such as extractives, moisture, ash, density, durability, energy content – and more.

**DA 7300 On-line NIR Analyzer** – Determine extractives, moisture and more in realtime. The DA 7300 automatically feeds the information back to your process control system for instant optimization. Calibrations are fully transferable between the DA 7300 and the DA 7250.

**DA 7440** – On-line measurements of wood chips or wood pellets.

To find out more about Perten Instruments, our products or local support, please visit our website at: