



Moisture Measurement in Particle Board

Moisture measurement and control in particle board manufacturing is an essential tool throughout the process to ensure optimal efficiency of the process as well as improved product quality.

MoistTech utilizes near-infrared (NIR) technology that allows for a non-contact solution to provide accurate moisture content readings. Insensitive to material variations such as particle size, material height & color, the sensors provide a continuous, reliable reading with zero drift and no maintenance. There is a one-time calibration with a non-drift optical design allowing operational personnel to make immediate line adjustments based on real-time measurements.

Particle board moisture levels in the production process control various aspects such as raw material control, dryer efficiency, product inspection and decreases on downtime, waste and fire hazards. Moisture control of both the infeed and outfeed will result in better resin addition, reduced energy usage and a higher quality material prior to blending.

Fiber quality can be influenced by moisture content and incorrect moisture resin addition wastes money and can cause dramatic process interruptions. Precise control of raw material fiber will not only improve the resin addition but also provide an extra benefit of high quality board properties, resulting in significant savings.

INSTALL

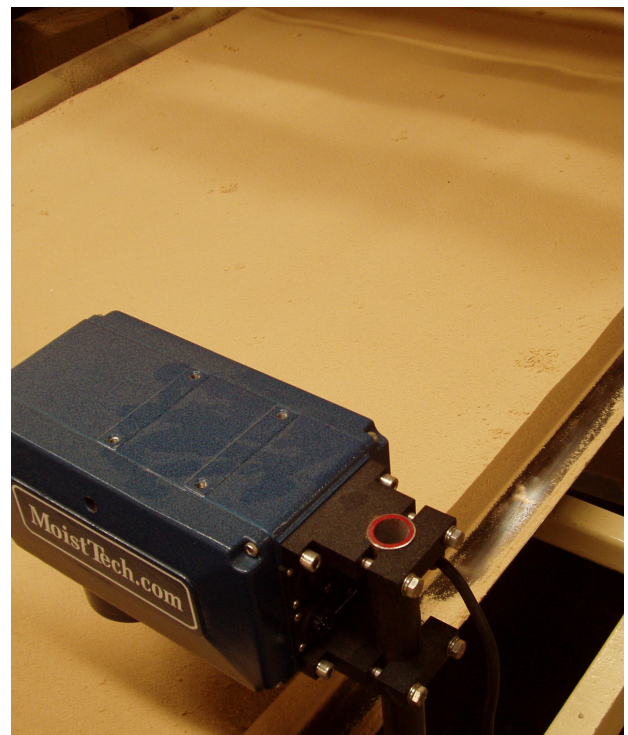
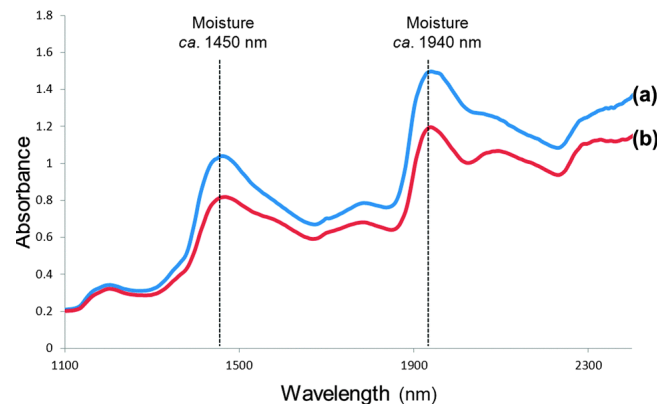
The on-line sensors can be installed into any hopper, silo, material line, belt or screw conveyor and the moisture results are displayed onto an external display or PC.

Installing a moisture measurement and control system prevents bad product due to undesirable moisture levels. Fine tuning the setup and process of the manufacturing line allows for instant improvements both in the product and in the efficiency in which it is produced.

IMMEDIATE BENEFITS:

- Improved Product Quality
- Lower Waste & Energy Costs
- Process Optimization
- Increased Plant Efficiency
- Dryer Control
- Reduced Downtime

An ideal moisture control system accurately detects the moisture levels at different stages of the process, is easily maintained and has the ability to withstand even the harshest of manufacturing conditions. The IR-3000 series of sensors manufactured by MoistTech are specifically designed to be unaffected by ambient light or material variations to be able to provide continuous, repeatable, accurate readings to improve the manufacturing line and product.



“The addition of the MoistTech IR3000 has provided me with the ability to control our process by instantly increasing or decreasing material flow into the dryer. Prior to the MoistTech technology proved to be a guessing game and time consuming!”