



# Moisture Measurement in Wood Pellets

Moisture measurement and control is a crucial aspect of the wood pellet manufacturing process. MoistTech's IR3000 moisture sensor allows you to do instant, non-contact, continuous moisture measurement.

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.

Manufacturing wood pellets requires the refining, drying and blending of wood waste prior to entering the pellet press. Measuring moisture throughout the wood pelletizing process will produce pellets at a specific moisture percentage preventing the out of specification when the product is too wet or too dry.

Proactive adjustments can be made to the process, to optimize pellet manufacturing. Over drying of the product can cause a dusty, ambient environment that can result in fire. Product too dry will prevent pellets compacting and not molding together very well. Product too wet could cause the pelletizer to plug up, both resulting in shutting down the line and creating product waste.

## INSTALL

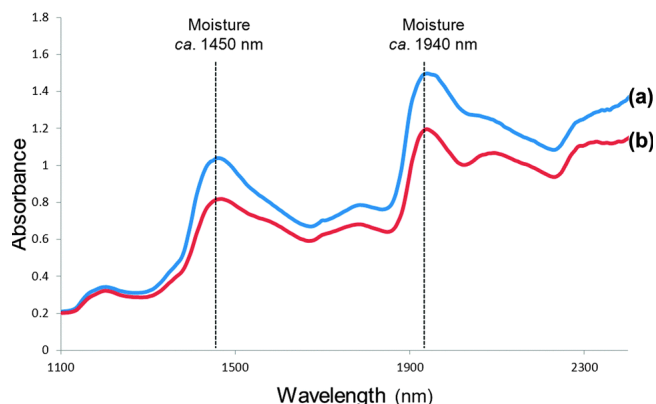
The on-line sensors can be installed into any hopper, silo, material line, belt or screw conveyor and the moisture results are displayed onto an external display or PC.

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!”