



Moisture Measurement in Clay

With clay being such a porous material, the moisture levels become very important in the production process. Quickly and effectively measure and control the moisture content immediately in the process line, eliminating issues before they arise.

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.

The moisture content in clay production is essential for a number of reasons: the properties of clay are affected by their water content, gradients lead to moisture migration, the amount of water in the clay affects consistency, strength and density and too little or too much moisture will cause the clay not to form properly.

Controlling the moisture content throughout the manufacturing process can provide a more efficient production environment by providing total product inspection, increasing quality control and preventing downtime, decreasing the energy usage in the drying phase and optimizing the overall process.

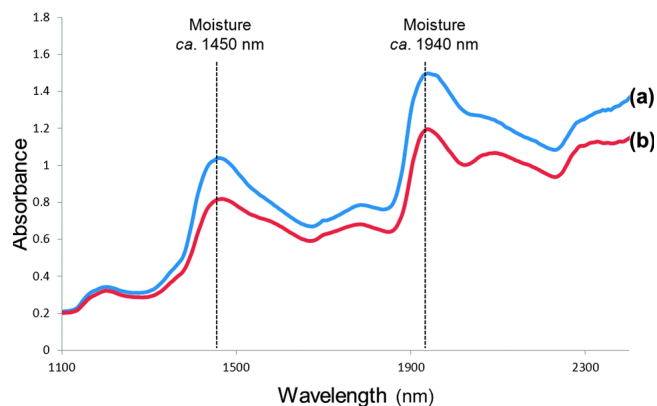
INSTALL

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!”