



## Moisture Measurement in Gypsum & Gypsum Board

Gypsum moisture varies depending on the source of its deposit and the requirement of its final application or product. Due to mined and industrially produced gypsum are both water soluble, gypsum's moisture content must be monitored and controlled during the production process to ensure its usability.

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.

To monitor and measure gypsum moisture in the industrial environment, the IR3000 sensor is capable of capturing hundreds of measurements per second providing the most reliable moisture reading in the production process.

Gypsum board moisture content will affect the drying time and final outcome of the product. High humidity can impact gypsum board causing it to warp, which creates wasted materials and higher energy costs due to increased dryer usage to achieve longer drying times.

### INSTALL

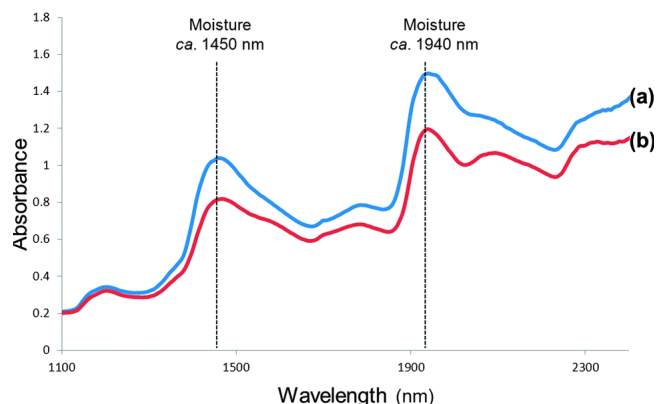
The on-line sensors can be installed into any hopper, silo, material line, belt or screw conveyor and the moisture results are displayed onto an external display or PC.

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!”