



Moisture Measurement in Crushed Limestone

Limestone is used as a raw material in numerous industries, making the moisture levels an important step in the manufacturing process. Controlling the moisture content of crushed limestone while processing is critical to meeting emission requirements as the moisture is one factor that effects pollution emissions, regardless of its end use.

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 high degree of quality control needed to ensure limestone is suitable for multiple applications includes maintaining proper moisture levels to prevent blockages throughout the screening process as well as fine tuning the efficiency of the crushers and dryers. Monitoring and controlling the moisture content during the production process ensures a quality product

INSTALL

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

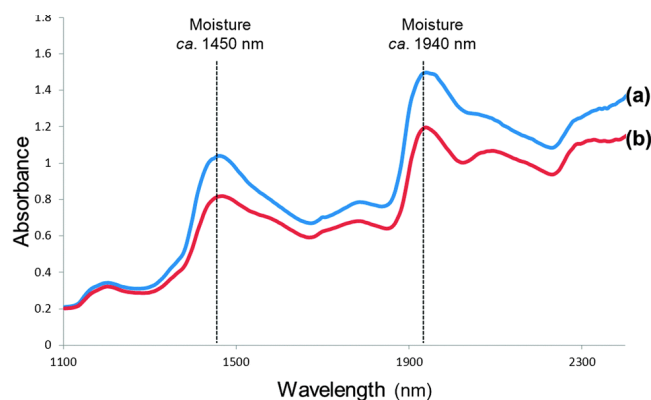
The MoistTech technology ignores gaps and height fluctuations within the product as well as maintaining the last reading if product stops flowing, no need for any special adjustments. Store up to 50 product calibrations in one sensor that allows for easy selection by line personnel.

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!”