



Moisture Measurement in Hydrated Lime

Moisture measurement and control in hydrated lime is essential as it is obtained by the action of adding water to lime, which is referred to as slaked lime. With multiple uses as a final product, the production of hydrated lime has many quality control factors to meet.

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.

Hydrated lime has multiple uses included building materials, civil engineering, the chemical industry, agriculture, drinking water treatment and more. The angle of repose for hydrated lime varies considerably with moisture content. Excess moisture can cause the product to clump, causing blockages in slaked lime and difficulty in loading and transporting material.

MoistTech's IR3000 series sensor is designed to detect moisture levels that exceed the maximum levels of 1.5-3% moisture in hydrated lime. Moisture content that is too high will cause an unusable product as the lime will not flow properly and the purchaser would be paying for the excess moisture weight.

INSTALL

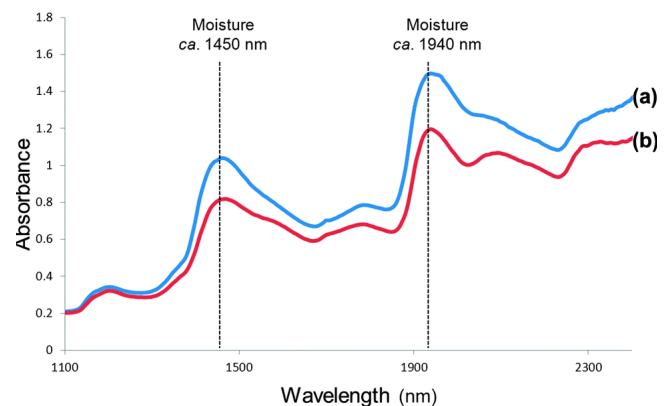
The on-line sensors can be installed into any hopper, silo, material line, belt or screw conveyor and the moisture results are displayed onto an external display or PC.

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!”