



Moisture Measurement in Chemicals

In the chemical industry, the quality of products, raw materials and process are held to a very high standard, leaving process monitoring to be a crucial part of the manufacturing process. Moisture monitoring and control are necessary in all phases of processing to ensure accuracy.

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 chemicals are produced properly includes proper moisture monitoring. During the blending and mixing, processors are constantly adjusting moisture to maintain the quality of the product. Small variations and excess moisture in mixes can result in clumping, which affects the quality and consistency.

During drying and granulation, moisture measurement plays an important role as in-process measurements ensure optimization and elimination of over-drying.

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.

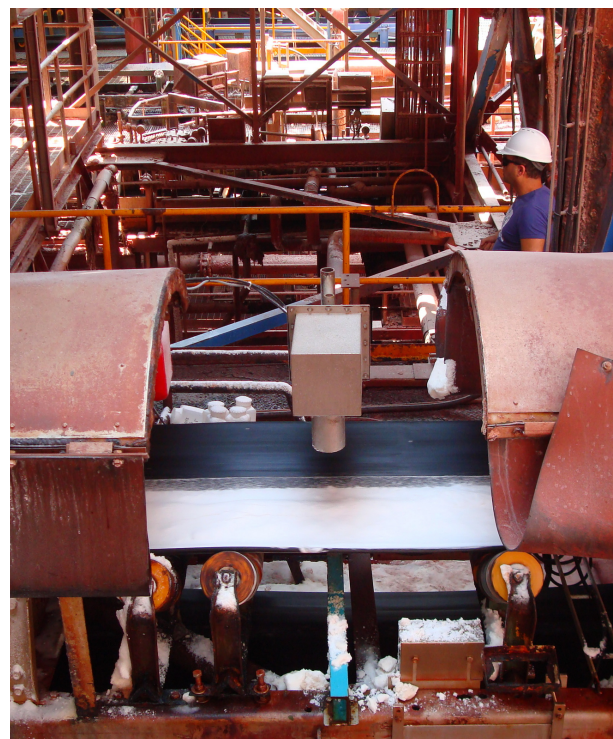
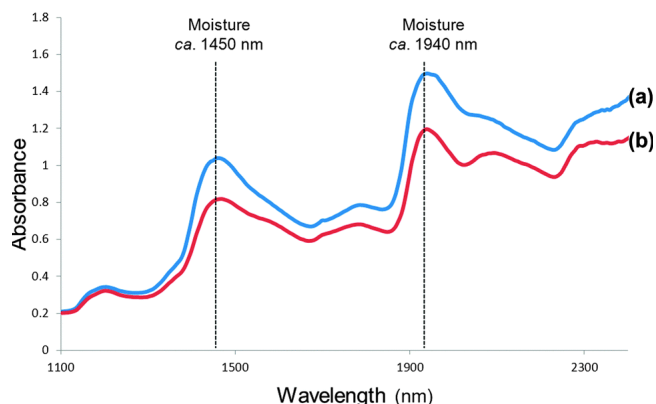
Installing a moisture measurement and control system prevents bad product due to undesirable moisture levels. Fine tuning the setup and process of the manufacturing line allows for instant improvements both in the product and in the efficiency in which it is produced.

MoistTech's NIR sensor easily replaces time consuming lab tests and is easy to use and install, providing the most accurate measurements on the market.

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!”