



# Moisture Measurement in Sinter Mix

Accurate knowledge of the moisture content in the materials being fed to the blast furnace is essential for the production of the highest quality iron and steel with maximum throughput.

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.

Moisture control in the raw mix is essential, if it does not contain enough moisture then ball formation will not take place, while if it is too high, slurry forms which reduces the mix's permeability. To achieve the optimum moisture level, accurate moisture testing is essential.

Precision filters and algorithms have been incorporated to optimize performance under the demanding conditions in coke, coal and sinter processing. Unsurpassed in performance, stability, reliability, maintainability and cost of ownership, the CCS-3000 is the answer to controlling moisture in sinter mix.

## INSTALL

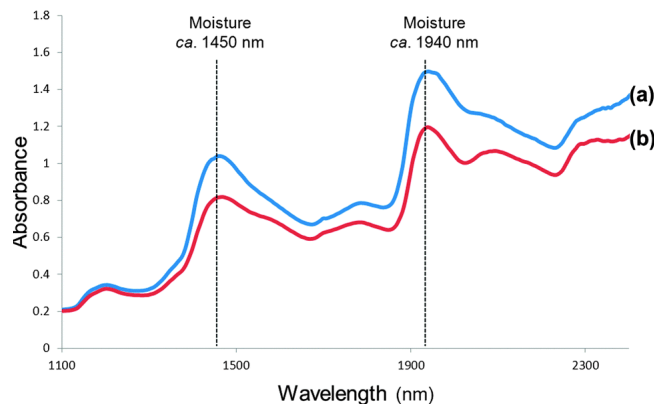
The on-line sensors can be installed into any hopper, silo, material line, belt or screw conveyor and the moisture results are displayed onto an external display or PC.

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 CCS-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!”