



Moisture Measurement in Sewage

Moisture control within the sewage process is desirable to ensure the final product is suitable for various uses. Accuracy levels with MoistTech's state-of-the-art moisture control system is +/-0.2%

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.

Sewage treatment plants discharge cake or sludge, a biosolid that is normally 70-80% water. The rest is a nutrient-rich organic material that has value as a renewable energy source or for blending in soil composts for agricultural soil conditioning, reducing the need for fertilizer. To be properly processed, the exact moisture content of the sludge must be within 0.5-1%. The sludge can be burned to recover the energy, however it must be dry enough to incinerate.

INSTALL

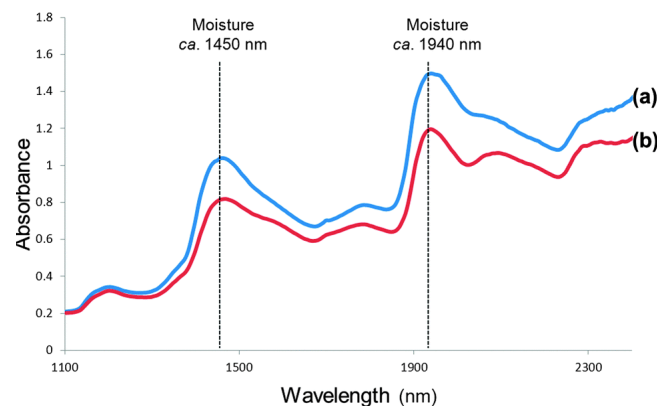
In waste applications we recommend installing a sensor after the feeder press, prior to dryer or after the filter press for disposal to reduce shipping charges and environmental problems. In the case of incineration, installation prior to the drum dryer is ideal.

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!”