



Moisture Measurement in Glass & Glass Cullet

The essential amount of moisture needed in sand/glass mixtures can easily fluctuate and create production issues and wasted product, wasting manufacturer's time and money. A simple solution from MoistTech can provide instant, accurate results in seconds allowing for line adjustments prior to waste being produced.

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 final product quality is often dictated by amount of moisture present during the production process. The silica mixtures are very susceptible to being too wet or dry which can create numerous issues.

When glass is taken to a recycling facility, it is crushed into a ready-to-melt form called cullet, which has endless uses: insulation, ceramics, water filtration, aggregate and more. Maintaining the correct moisture content and temperatures through the recycling process can be the difference between a quality product and product waste.

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!”