Moisture Measurement in Pretzels

Controlling the amount of moisture in pretzels is an important consideration for process operators. Too much or too little moisture impacts both production and quality. By installing a moisture sensor in the processing area, manufacturers can continuously monitor the moisture and oil content to adjust as needed.

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.

Pretzel manufacturers strive to have the best finished products. During pretzel manufacturing it is important to know the moisture content after the oven outlet as they can affect quality and consistency, as well as the taste, appearance, stability and shelf life. Additionally, variation and excess moisture in pretzels can result in discoloration and out of specification product. Testing moisture during this time will allow adjustments to be made so that pretzel manufacturers have the highest quality.

Cost savings in energy and fuel costs are seen immediately with proper moisture measurement and control.

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.
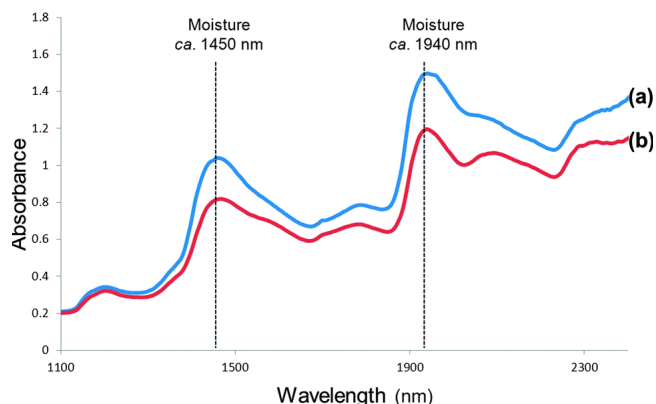
"The addition of the MoistTech IR3000 has provided me with the ability to control our process by instantly increasing or decreasing material flow into the dryer. Prior to the MoistTech technology proved to be a guessing game and time consuming!"