



# Moisture Measurement in Animal Kibble

Both wet and dry animal kibble rely on a consistent moisture range to maintain quality and consistency. The moisture content also plays a large role in the percentages of other needed ingredients in the feed including protein, carbohydrates and fats, to maintain a balanced blend.

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.

Dry animal food/kibble tends to have a moisture range between 6-12%, semi-moist foods between 15-30% and wet foods around 75% - the IR3000 series sensor has the ability to measure each kind of kibble and can store up to 50 product calibrations in one sensor.

Accurately calculating the amount of moisture present or that needs to be added to the mix for proper consistency allows the use to have full control over the production line and adjustments.

## INSTALL

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

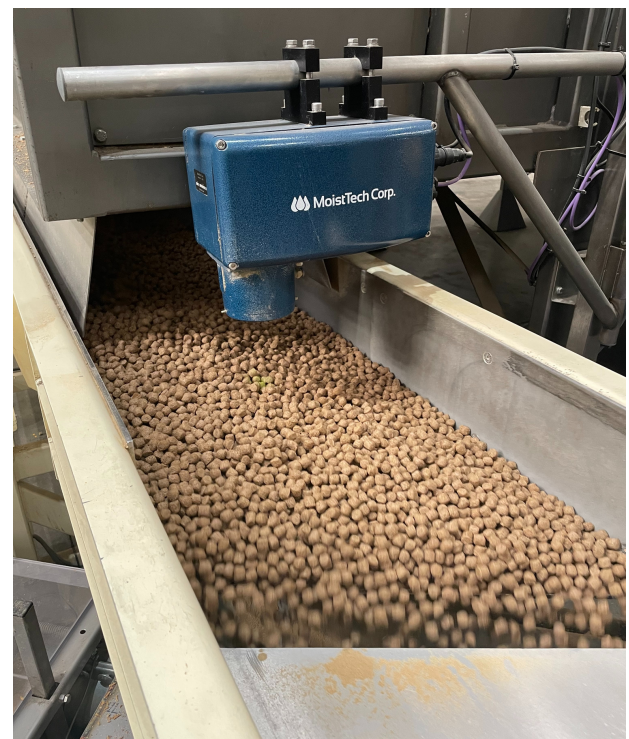
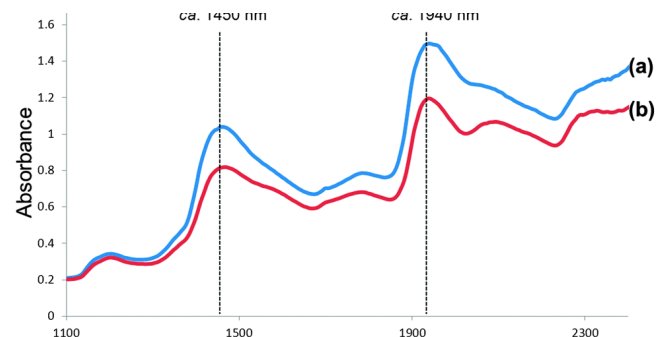
Stable, fixed moisture levels ensure that animal food products maintain consistency and that product waste is minimized.

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!”