

Moisture Content in Corrugated Wax Coating

MoistTech Instant NIR Online Moisture Sensors

In the corrugating industry, wax coating is often applied to the corrugated product. Having the correct amount of wax or the presence of wax is critical during the manufacturing process.

Ideally a moisture control system should be able to accurately detect moisture in raw materials, preferably at different stages of the manufacturing process, be easy to maintain and tough enough to withstand the harsh, abrasive nature of the raw materials and the mixer environment.



With the help of industry partners and 40 years of knowledge, MoistTech has developed the IR 3000 Moisture Sensor which is ideally suited to measure the amount of wax coating that is being applied to the corrugated product. Thus, corrugators improve their product quality, reduce their wax consumption and improve their cost savings.

Unlike other instrumentation of this type, some of the unique features of the IR3000 is that it can monitor the product even with small gaps in product flow and is unaffected by ambient light without impacting the accuracy. The sensor is insensitive to material variations such as particle size, material height & color, our moisture sensors provide continuous, reliable readings with zero maintenance and a one-time calibration with a non-drift optical design allowing operational personnel to confidently make immediate process adjustments based on real-time measurements.

Benefits....

- ✓ **improved product quality**
- ✓ **lower energy costs**
- ✓ **reduced start-up times**
- ✓ **less waste**
- ✓ **100% product inspection**
- ✓ **less downtime**

By installing the sensor at the exit of the dryer, a manufacturer can continuously monitor the process and can control the moisture content either manually or automatically instantly. If the sensor is susceptible to extreme heat conditions, it is necessary to cool the sensor with either air or water.

Typical accuracy is about $\pm 0.1\%$ gsm. Typical analog ranges are from 2-60 gsm. Stability on certain applications is within 0.002 gsm. The outputs can be adjusted to optimize PLC or recording requirements.

For additional information or to discuss your application, please contact our headquarters.