

# Fertilizer

## Moisture measurement & control

Having the correct moisture levels in fertilizer has become a critical component during the various stages of production. Fertilizer can easily become either too wet or dry wasting manufacturer's time and money as well as impacting the quality of the end product. With the help of industry partners and 30 years of knowledge and experience, MoistTech has developed the *IR 3000* Moisture Sensor that is ideally suited to measure the moisture levels in fertilizer.



### *Installation....*

By mounting the sensor several inches above the conveyor, after the dryer so it can continuously monitor the process and can control the moisture content either manually or automatically in the fertilizer.

### *Environment....*

Dust from the product is not normally a problem however in extreme dusty environments we recommend the installation of an air purge system to prevent the accumulation of material on the sensor's window. If the sensor has to be installed close to the dryer outlet where it will be susceptible to extreme heat conditions, it is necessary to cool the sensor with either air or water.

### *Benefits....*

- improved product quality
- lower energy costs
- less waste
- 100% product inspection
- less downtime

*MoistTech* is very experienced with the requirements in the production of fertilizer. Our sensor calibrations, measurement wavelengths, algorithms and sensor optical requirements are pre-set at the factory. Typical accuracy is about  $\pm 0.2\%$  moisture. Typical analog range is 1-10% moisture. The outputs can be adjusted to optimize PLC or recording requirements. For addition information or to discuss your application, please contact our headquarters.

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