

Potato Chips & Snack food



Moisture & oil; measurement & control

Having the correct moisture levels in potato chips and in snack foods is a critical component during the various stages production and frying. Chips and snack foods can easily become either too wet or dry and/or oily 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 and oil levels during the baking & frying process. The sensor is coated in a food grade material with a polymer optical window allowing manufacturers to improve product quality and monitor moisture continuously.

Installation....

Ideally, the sensor should be installed after the fryer outlet. It should be mounted several inches above the vibrating conveyor so that it can continuously monitor the process and can control the moisture and oil content either manually or automatically in the finished product.

Environment....

If the sensor must be installed close to the outlet of the fryer and will be susceptible to extreme heat conditions, it is necessary to cool the sensor with either air or water. Furthermore, if the sensor is located near an oil spray, it is necessary to clean the sensor's optical window during regular routine cleaning.

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 potato chips and snack foods. Our sensor calibrations, measurement wavelengths, algorithms and sensor optical requirements are pre-set at the factory. Typical accuracy is about $\pm 0.1\%$ moisture and $\pm 0.2\%$ for oil. Typical analog range is 0-5% for moisture and 20-40% for oil. For addition information or to discuss your application, please contact our headquarters.

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