

Reaction Monitoring

Know When To Stop Reacting

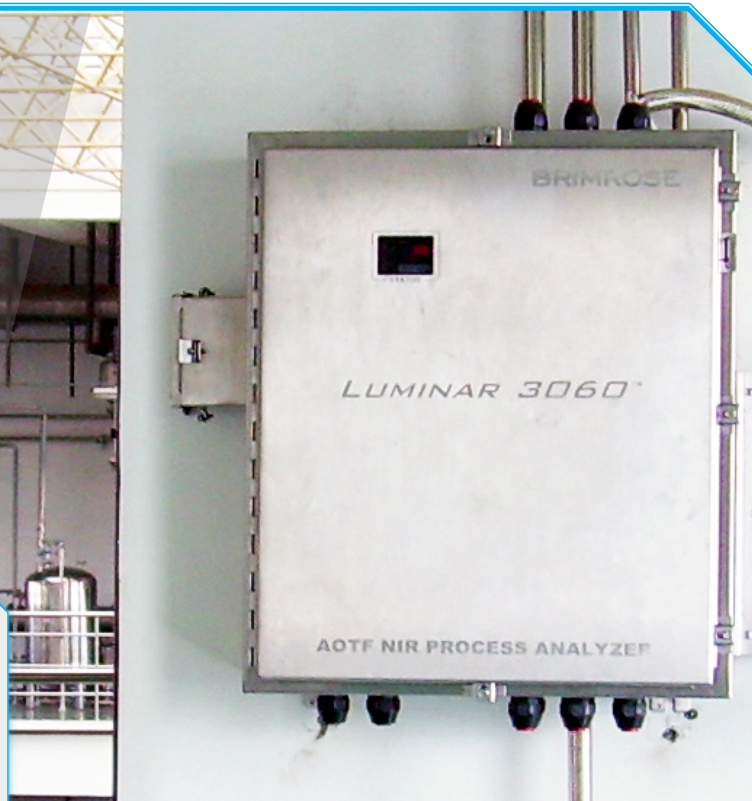
Brimrose solid state, robust components enable our spectrometers to be integrated directly to the reactor for real-time measurement. Our spectrometers determine when reaction is complete, minimizing production time, and cost to market of your products.

Proper Reaction

Proper reaction is vital to assure batch uniformity and the integrity of industrial products. It is important that the components in each batch are uniform and homogenous. A batch that is not fully reacted can affect quality of the end product.

Timing and Sampling

The most common method of reaction monitoring is through the use of timing and sampling. Traditionally, the reaction process is run for a certain amount of time with samples taken and run through an HPLC / GC to confirm that the reaction is complete. Timing methods with sampling results in increased reaction times, slower product turnovers, and wasted product.



A Better Method

AOTF-NIR Spectrometers are non-destructive, rapid test devices for determining endpoint reactions. The technique has been proven to reduce manufacturing time with total control over the process, and to provide more understanding of the process.

- **Monitor Reactions for Every Batch**
- **Control Your Manufacturing:** Continuous monitoring provides accurate control of your reaction process.

A Proven Benefit

Successful implementation of a Brimrose AOTF-NIR spectrometer results in:

- Ensured Quantitative & Qualitative Accuracy
- Faster product turnover
- Reduced Manufacturing Times
- Less Wasted Product
- Assured Reaction Accuracy



Flow Cells