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Moisture Analyzers: What You Need to Know



Moisture Defined

Moisture is anything that evaporates when heated. This includes water, fats, oil, alcohol and solvents.

The major component is the heater which is mounted on a precision balance. Pan holders and sample pans are used to contain the sample. Features varv with the model.

The Components



Sample Preparation

The sample is critical. Test samples immediately. Smaller is better. Placement matters. The sample must represent the bulk material.





The display can show you the current weight, current moisture content percentage, drying mode, switch-off mode, predicted drying time, temperature, and status indicator. This data can be transferred to a printer or computer.

The Drying Modes/ Profiles

Switch-Off Criteria

The choices are: automatically when drying is is complete and weight is stable, after a specified time, or manual.





The Heat Halogen or infrared heaters are mounted on the precision balance. Halogen heat is the fastest method of drying. You control and program the temperature based on industry regulations.

A programmable drying mode/profile allows you to use the correct approach for the sample.

Not all substances react equally to a moisture analyzer. Standard drying is the most common mode used.

The Drying Process



Drying process details are entered on a keypad, the sample is placed in the drying chamber, and the analyzer calculates the moisture by comparing the initial sample weight to the



The Sample Size

The sample should thinly cover the sample tray and be free of lumps and peaks. Refer to the moisture analyzer manual for suggested weights for different samples.

The Calibration



The Maintenance

Always refer to your user manual for the specific maintenance instructions for your moisture analyzer. We've got some tips in 13 Things To Know About Moisture Analyzers.





Accuracy is key. This is controlled by the initial calibration and periodic recalibration. Read 13 Things To Know About Moisture Analyzers to learn about external calibration and temperature calibration.

Specifications

Readout, repeatability, temperature range, drying modes, switch-off criteria, maximum sample weight, calibration weight, warranties - a short list of specifications you need to think about.



sample weight once dried.



The Tovatech team of scientists is available to answer any questions you have about moisture analyzers. You want the right unit for your applications. Visit www.tovatech.com for more information.

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