

PROCESSING & HANDLING

SEPARATION PROCESSES

WATER TREATMENT

HEAT TRANSFER

SOLIDS HANDLING

AUTOMATION & CONTROL

ENVIRONMENT, HEALTH, SAFETY & SECURITY

OPERATIONS & MAINTENANCE

BUSINESS & ECONOMICS

HIGHLIGHTS

Determination of nozzle loads to facilitate the initial pressure vessel design

NEW PRODUCTS & SERVICES

NOVEMBER 1, 2018

NIR-BASED TECHNIQUE PROVIDES A SIMPLER WAY TO MEASURE MOISTURE

This company has developed an approach to moisture measurement that uses Near-Infrared (NIR) light, which can deliver immediate, laboratory-quality moisture readings. Traditional laboratory and online moisture-measurement techniques — while capable of providing comprehensive results — lack the simplicity and flexibility for frequent spot checks, so secondary testing methods are often needed. The new NIR-based



Kett US

method enables portable, instant moisture readings of chemical feedstock, product formulations or any end product. NIR moisture meters allow accurate measurement of solids, pastes, and liquids without contact or sample preparation, so there is no contamination in handheld and online models, says the company. Because no direct contact or sample alteration is required, particle size variation and unusual textures are not an issue. In addition, because the process is non-destructive, samples remain unaltered so they can be used for additional tests or put back into the product stream. Unlike complex laboratory equipment, portable NIR equipment, such as the KJT130 Handheld Portable Instant Moisture Meter, are designed for ease of use — the user simply points the instrument at the product and the moisture content is instantly shown on a digital display, with results accurate to .01% in a 0-100% measurement range.— *Kett US, Anaheim, Calif.*

www.kett.com

SEARCH...



BREAKTHROUGH TECHNOLOGIES

THIN, ORGANO-CERAMIC COATING IMPROVES CORROSION AND FOULING RESISTANCE OF METAL COMPONENTS

BIO-BASED ADSORBENT MATERIAL REMOVES PFAS COMPOUNDS FROM WATER

A BI-FUNCTIONAL CATALYST ENABLES ONE-STEP, 'TUNABLE' F-T SYNTHESIS OF LIQUID FUELS

GAS-SOLID REACTION MAKES EFFICIENT SOLAR CELLS

A ONE-STEP SOLUTION FOR REMEDIATING TWO CHALLENGING GROUNDWATER CONTAMINANTS

WATER-POLLUTANT-REMOVAL TECHNOLOGY EXTENDED TO PHOSPHORUS

PRINTING 2-D PIEZOELECTRIC MATERIALS FOR SENSORS AND ENERGY HARVESTING