



The Kappa AssayPlus™ is the automated solution for Kappa number determination when measuring lignin content in pulp and paper processes. The Kappa methodology utilized was developed in partnership with PAPRICAN (Pulp and Paper Research Institute of Canada), where the protocol and system have been rigorously tested (see “Kappa Number Testing with Better Repeatability and Lower Cost”, 2004 PAPTAC Annual Meeting Proceedings, C-111. To request information from the author, please contact literature@mantech-inc.com.)

The Kappa AssayPlus™ system will fully automate the analysis of up to 17 samples on its robust XYZ autosampler. Man-Tech understands that the pulping, oxygen delignification, and extraction processes require constant and reliable Kappa Number Tests in order to maintain good process control. Now, with the successful automation of the Kappa methodology, pulp labs can free up operator/technician time, reduce chemical costs, calibrate on-line automated Kappa number analyzers and improve analytical confidence.



Full Kappa AssayPlus™
System including Computer, Monitor & Software.

Advantages

Free Your Time - Because Your Time is Valuable

- Precise and Accurate Measurements
Make better decisions and cut costs with improved confidence in test results
- Analyzes 17 samples
Analyze up to 17 samples by utilizing standard 300ml tall-form beakers
- Free Your Time with Full Automation
Fully automate the methodology of this time-consuming test
- Decrease Laboratory Chemicals
The Kappa methodology cuts the volume of reagents required per test by a factor of 6
- Easy-To-Use
User-defined Autorun buttons make starting a sample run as easy as Load. Start. Done.



Kappa AssayPlus™ Hardware

Robotic XYZ autosampler • Small Footprint • Software Controlled

- Hardware completely controlled by software
- Adaptable to other applications such as liquors (black, white and green), alkalinity, peroxide.
- Automatic sample preparation (potassium permanganate, sulfuric acid, potassium iodide)
- Random access XYZ autosampler designed to carry 17 samples in 300ml tall-form beakers
- All samples maintained at a constant temperature
- Automated and powerful rinse
- System comes with warring blender



Kappa AssayPlus™ Software

Easy to Use . Upgradeable . Improved Quality Control

- Step-by-step control of hardware and methodology, including 10 minute reaction time
- Real-time display each step of the method including the titration curve
- Password protection
- Import SID's and export data easily to LIMS
- Integrated QC charts to track and trend results
- Automatic calculation of Kappa Number corrected to 50% potassium permanganate consumption
- Flexible reporting to screen, printer or file
- Only two mouse clicks required to start any sample run



Real-time titration curve and QC charting