# PRODUCT GUIDE

## PRINTABILITY, GLUABILITY, COATING COLOR MEASUREMENTS (LAB)

- Prediction of converting quality: gluability, printability and coating ability of paper board by characterization of surface properties (Surface porosity, surface sizing), using respective testing liquids.
- Measurement of melamine resin absorption of decorative paper by using the OSB sample preparation accessory.

**PDA.C 02 MST**  
Module Standard

**PDA.C 02 HVL**  
Module High Viscous Liquids

- Determination of interaction between paper/board and high-viscous and/or contaminating liquids (glue, ink, coating color, oil), largely correspondent to their real interaction.

- Determination of coating color to coating base paper interaction under high shear and pressure impulse by simulation of coating machine.
- Additional: Characterization of coating base paper and coated paper in applications of MST.
- Optional accessories: CMA Coating Measurement Accessories and CDA02, CDM02 or CCM Coating Color Preparation System.

**PDA.C 02 MSC**  
Module Standard Coating

**EST12**  
Surface and Sizing Tester

- Similar application like the PDA.C 02 Module Standard:
  - Characterization of surface properties of paper & board.
  - Prediction of converting quality.
  - Easy, portable, low budget device: useful for application engineers of chemical suppliers, QA in paper production.

## MINERAL FILLER MEASUREMENTS (LAB)

- To quickly and accurately determine the filler and pigment content of paper and board.
- New: content of all individual components in percent.
- Replacement of traditional combustion method.
- Fast availability of testing results.
- Extremely time-saving compared to combustion method (20 s / test).
- Non-destructive method.
- Optimization of retention.
- Calibration of online sensors.

**ACA**  
Ash Content Analyzer

**TSA**  
Tissue Softness Analyzer

- Replacement of subjective hand panel test, measuring results in very good correlation to subjective feeling.
- Extreme increase of efficiency in process optimization in tissue production and converting.
- High accuracy, good reproducibility.
- Separate assessment of basic parameters of hand feeling (softness, smoothness, stiffness).
- Nonwoven and fabrics can also be measured.

NEW !
# DEPOSIT MONITORING IN WATER CIRCUITS (ONLINE)

For the measurement of biofouling, organic deposits, and films in paper machines, power plants.

- **DCS**
  - Deposit Control System

## DIMENSION STABILITY (LAB)

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<th>Measurement of the dynamics of wet stretching of paper under one-sided liquid contact</th>
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<th>DSS Module WSD02</th>
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**Measurement of the shrinkage of paper or OPP film in contact with a temperature controlled hot metal plate:**

- Curling tendency for corrugated board.
- Runnability of paper in a Laser printing machine, a copy machine.
- Shrink properties of OPP film in packaging process: cigarette boxes, perfume boxes.
- Special paper applications, for example to measure the dimension stability after drying or fixing of ink in roll offset.

## WET-END MEASUREMENT (LAB & ONLINE)

**Effective Fiber Zeta Potential measurement.**

- Determining the optimal reaction of chemicals with fibers:
  - For optimal consumption of chemicals.
  - For guarantee of target properties of finished products.
  - Easy to handle.

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<td>Charge Analyzing System</td>
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**For an online measurement of the fiber zeta potential in paper and board machines:**

- Reliable, accurate, and robust.

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<td>Fiber Zeta Potential Analyzer Online</td>
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**Efficient particle charge measurement:**

- Determining the optimal amount of additives and selecting the appropriate additives:
  - Extremely useful for wet-end process optimization.
  - Reducing the consumption of chemicals.
  - Optional one or two titration pumps or hand titration.
  - Many useful functions: dynamic titration, revertive titration.

**To quickly and accurately determine the influence of chemicals on filtration properties by automatic analysis of drainage and retention of fiber suspensions.**

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