

## Surface & Sizing Tester

# EST 12

Ultrasonic Tester for the Determination of Paper/ Board Properties  
via the Wetting and Absorption Behavior of Liquid



Quick tester for simple, efficient and accurate surface testing of paper and board for:

- Absorbency
- Surface sizing/ internal sizing
- Surface porosity
- Surface starch content
- Wettability
- Coating quality / binder filming
- Oil absorption

For prediction of converting properties:

- Printability
- Glueability
- Coating base paper quality

Advantages:

- Easy handling
- Portable
- Useable with or without a PC
- Automatic calculation of parameters
- Partly substitution of Cobb-Tester

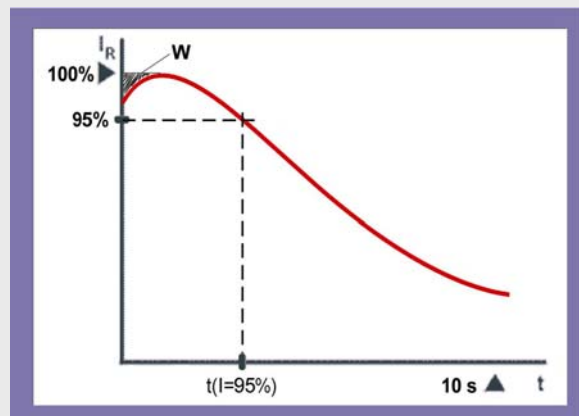
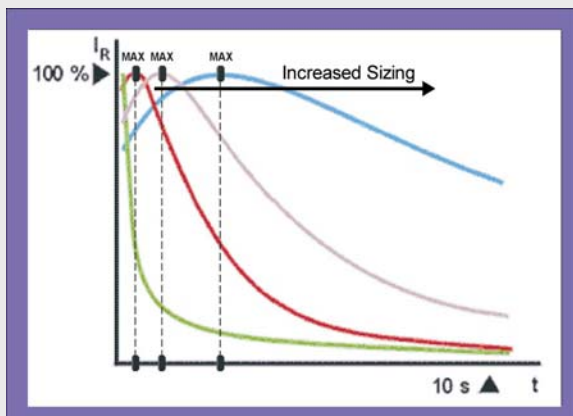
Main user:

- Paper/ boardproducer
- Chemical suppliers
- Paper/ board converter

Measuring results:

- Intensity-time-diagram (with PC)
- Automatic calculated values

- **Operation**
  - In the same fashion like a "Dynamic Short-Time Cobb Tester"
- **Field of application**
  - Quality testing for internal- and surface-sized, coated respectively uncoated paper and board
  - Grammages up to  $600 \text{ g/m}^2$
- **Measuring result**
  - Automatically calculated quality parameters **W**, **MAX** (respectively **S**), **t(l)** and **A(t)** with excellent correlation to the results of the Cobb Test (in the long-time range), Bristow Wheel Test and the Contact Angle Test, Hercules Sizing Test HST (**no** correlation to HST possible, if paper sample contains  $\text{CaCO}_3$ -filler!)
- **Advantages**
  - **Portable** low cost unit
  - **Ideal for quality control directly in production plants, for trial support by chemical application engineers and for troubleshooting**
  - **Can be operated without a personal computer**
- **Speciality**
  - The device can be extended to a "Mini-PDA" by connecting it to a personal computer
  - If the instrument is connected to a PC, various testing liquids may be used
- **Technical data**
  - Sample dimension: 75x50mm
  - Insert available for contaminating testing liquids
  - Measuring frequencies: 1MHz, 2MHz selectable
  - Dimensions: WxDxH 140x230x190mm
  - Weight: approximately 4.2 kg / 9.3 lb
  - Supply voltage: 230V, 50Hz / 115V, 60Hz



**Automatically calculated values: W, MAX, A(t), t(l)**