

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

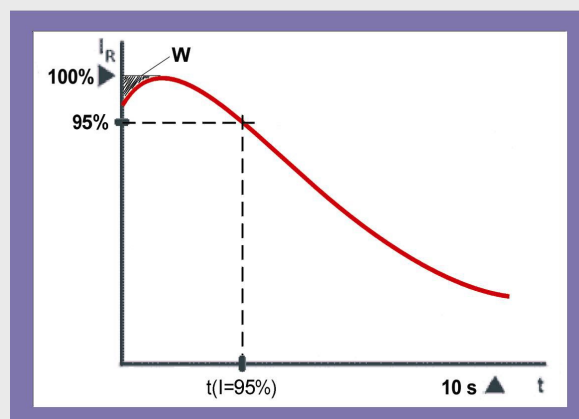
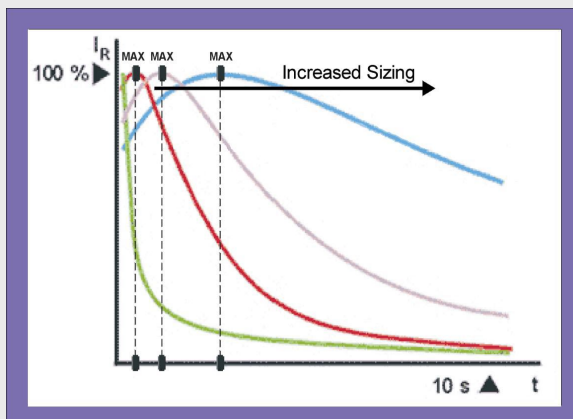
Main user:

- 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
 - Grammage up to 600 g/m²
- **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 CaCO₃-filter!)
- **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)**