New Cobb sizing tester sft 03pkte according to ISO 535

The Cobb sizing tester from is designed to determine the absorption of liquid media, such as water, aqueous solutions, oils, varnishes etc. by paper, solid board and corrugated cardboard from top to bottom surface at a given time. For water this is done according to ISO 535 and it is required that the water should not have penetrated through to the other side of the sample. To determine the exposure time needed to meet this requirement takes a lot of testing and considerable cost. For further optimisation of the test method according to ISO 535 we have designed the Cobb sizing tester sft 02pk.

We improved the measuring system of the new sft 03 series and further optimised the test procedure according to ISO 535 with the sft 03pkte. The latter has been provided with an additional device to measure the penetration of transparent, opaque and non-transparent materials by water or conductive or slightly conductive solutions.

The three integrated measuring techniques,

1. **Determination of water absorption according to COBB ISO 535**
2. **Measurement of penetration time to determine optimum exposure time and thus optimum water absorption**
3. **Temperature measurement of measuring medium during measurement**

provide the following advantages:

- **The requirements of the standard as regards exposure time are optimally met.**
- **Test preparation time is drastically cut.**
- **Standard measuring times are stored and can be selected by pressing the key.**
- **Improved comparability of samples because of temperature measurement of measuring medium.**
- **The natural overpressure as per ISO 535 is maintained with the sft 03pkte in the same way as it is with the sft 01 and sft 02pk.**
- **The measuring technique applied shows no measurable impact on the water transport mechanisms.**
- **User friendliness is improved by prompting via display in both measuring techniques.**

For measured-value processing on a PC the interface RS 232C comes as standard for the sft 03pkte.
Our PC measured-value processing software sftpc using Windows 98, NT 4.0, 2000 und XP allows a statistical assessment and representation of the course of penetration.

Technical data:

- **Weight: 5.5 kg**
- **Inside diameter of cylinder: 112.8 mm**
- **Cylinder height: 44.0 mm**
- **Max. sample thickness: 4.0 mm**

Blotting roller

- **Weight: (10 ± 0.5) kg**
- **Diameter: (90 ± 0.5) mm**

Measuring algorithms: microcomputer- controlled
Cobb test acc. to ISO 535
Exposure time: 1 ... 65.535 s can be entered via keyboard
Standard measured values: 30 s, 60 s, 120 s, 300 s, 1800 s, can be selected by pressing the button
Penetration
Measuring time: 0 ... 65.535 s
Output : optimum exposure time for Cobb test
Temperature measurement of measuring medium: °C
Prompting: via display and keyboard
Standard interface: RS 232C
Optional:

- **PC measured-value processing software sftpc using Windows 98, NT, 2000 und XP.**

Standard supply includes:

- **Basic device**
- **Blotting plate**
- **Blotting roller**
- **Test template**
- **Electronic control and measured-value processing unit**
- **Plug-in power supply unit**