



When it comes to testing the liquid strike-through time of nonwovens, the well-proven LISTER AC of Lenzing Instruments is the given choice. It tests the permeability to liquids of nonwoven topsheet or coverstock according to the INDA/EDANA-standardized testing methods WSP 70.3 and WSP 70.7. The special instrument design offers measurements with outmost reproducibility and comparability. Still, some nonwoven applications require more frequent high-volume testing. In this case, solutions beyond using single testing instruments are requested in order to release tied personnel resources and the associated costs .

**LISTER AUTO** combines five single measurement positions in a rotating unit for automatic and successive measurements of the liquid strike-through time, i.e. the time it takes for a known volume of test liquid (simulated urine) applied to the surface of a specimen of nonwoven coverstock, which is in contact with an underlying standard absorbent pad, to pass through the nonwoven material. Up to five measurements are performed without the

need of any operator assistance. The automatic discharge of test liquid eliminates the need of liquid handling during the test series. Moreover, it enables flexible and varied liquid dosing at each testing position. Test settings and operation are easily accomplished by means of the integrated touch screen. An integrated timer guarantees for accurate and unbiased results in case the repeated LISTER test mode is selected.

With **LISTER AUTO**, users are offered a flexible and time-saving approach to the liquid strike-through test. At the same time, it incorporates all the advantages of the single unit liquid strike-through time tester LISTER AC.

### Scope:

Automatic, standardized and reproducible determination of the liquid strike-through time of multiple samples of nonwoven coverstock or topsheet.

### Method:

A known volume of test liquid is automatically discharged to the surface of the sample at a prescribed rate. The time it takes for all the liquid to penetrate the nonwoven is measured electronically and is called liquid strike-through time. An automatically rotating turntable enables consecutive testing of up to five single samples.

### Results:

The results of the liquid strike-through time of each specimen are reported directly on the integrated touch screen. If used together with a PC, the results are displayed both numerically and graphically in the software, which provides guided measurement, a database as well as numerous options for measurement and evaluation.

### Standardization:

Conforms with:

- INDA/EDANA WSP 70.3 and ISO 9073-8
- INDA/EDANA WSP 70.7 and ISO 9073-13

### EDANA:

European Disposables and Nonwovens Association

### INDA:

International Nonwovens and Disposables Association

### ISO:

International Organization for Standardization

### No. of samples per test run:

Up to 5 samples

### Sample presentation:

By means of a rotating turntable

### Resolution:

0.01 sec.

### Accuracy:

Surpasses the specifications of INDA/EDANA

### Available test modes (according to INDA/EDANA standards):

- Standard test
- Repeated test with up to 5 single values per sample; automatic time measurement between the repeated tests

### Data communication:

Ethernet interface for instrument operation and data transfer to software program

### Power supply:

230/110 V  $\pm$  10 %  
50/60 Hz, 150 W

### Dimensions:

Length: 820 mm  
Width: 650 mm  
Height: 555 mm  
Weight: 60 kg

### Optionally available:

- Evaluation PC
- Stand-alone version with USB interface.
- LISTER function-check unit Orifice

Technical data and pictures are subject to change.