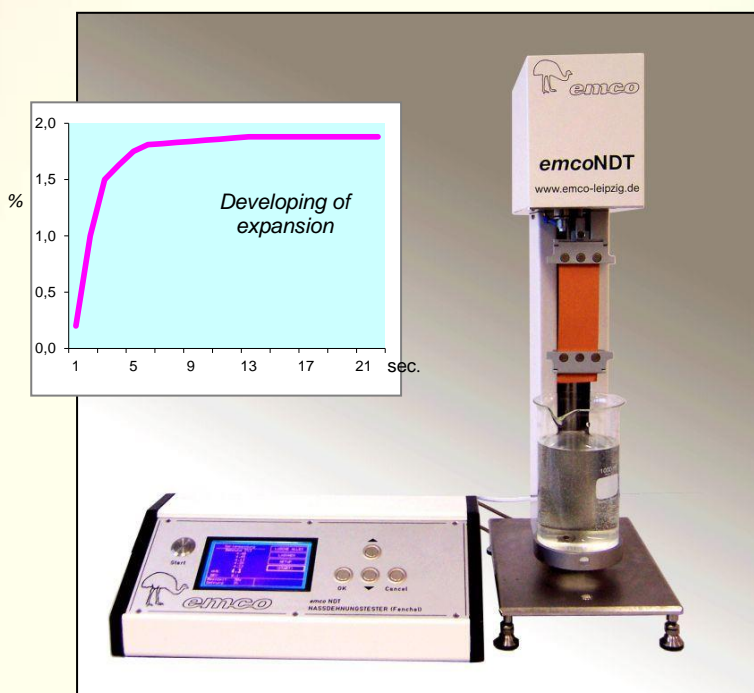


emco NDT 100 - S

Wet Expansion Tester according to 3 standards

Method to determine the dynamics of wet expansion of paper according to Fenchel, Müttek CD and MD



- Quick and easy operation due to magnetic clamps
- Digital resolution of measurement 0.01 %
- Automatic zero adjustment and compensation of clamping errors
- Graphical display of the measurement process in real time
- Switching between standards possible via menu
- Series or single measurement
- Output of measurement data and parameters on PC for central management of results (RS-232 and USB adapter)
- Integrated climate sensor
- Sample preparation with the electric Multi Sample Slitter *emco* MSS (optional)

Construction and mode of operation

The wet expansion testers according to Fenchel with an applied load of 1 g per mm sample width have been established for many years.

With the **emco NDT**, the measurement has been automated and equipped with electronic control, which brings considerable advantages for measured value acquisition, measuring cycle and operation.

To determine the wet expansion, a strip of 15 or 50 mm width at a length of 100 mm is required. The device is menu-driven. The measurement starts automatically.

By changing the load weights, tests according to the following standards are possible:

- | | |
|-----------------------|------------------------------------------|
| 1) Fenchel standard: | 1 g loading weight per 1 mm sample width |
| 2) Mutek standard CD: | 1 N loading for 60 mm sample width |
| 3) Mutek standard MD: | 4 N loading for 60 mm sample width |

Chain of measurement

After clamping the sample and pressing the start button, the measurement runs automatically in the following steps:

- Unlocking the upper, movable clamp
- Zero point compensation
- Water tank lifts
- Start of the measurement
- Digital and graphic display of the current expansion and the remaining measuring time
- At the end of the measurement the water tank is lowered
- Optionally, the measuring time can be continued after the water tank has been lifted

Technical data

Sample dimension:	15 x 100 mm ² (50 x 100 mm ² optional)
Measuring range:	9 % expansion
Measuring time:	1 - 900 sec
Accuracy:	±0.03 % expansion absolute

Power supply:	110 ... 230 V 50 / 60 Hz
Air pressure:	min. 5 bar, filtered, oil free

Dimensions

NDT:	200 x 650 x 300 mm ³ (WxHxL)
Control unit:	390 x 130 x 210 mm ³ (WxHxL)
Weight:	15 kg