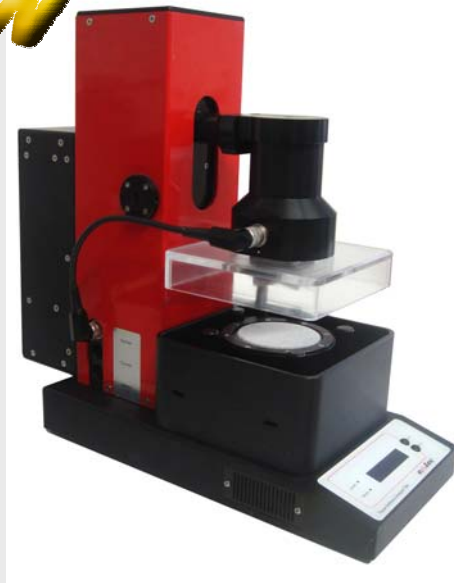


## Tissue Softness Analyzer

# TSA

Laboratory Instrument to assess the Softness of Tissue and Fabrics

**New**



- Measurement of the softness of tissue and fabrics

- Assessment of the two-sidedness regarding softness of tissue paper

- Area of Use:

- production control
- product optimization
- comparison of products
- R&D
- selection/incoming control of pulp/fibers (handsheet measurement)

- Main Application:

- **base tissue**
- toilet tissue
- fabrics
- tissue handkerchiefs
- facial tissue
- tissue towels
- tissue kitchen towels

- Main User:

- Manufacturers of Tissue and Fabrics
- Chemical Suppliers
- Converters of Tissue and Fabrics
- Machine builder

- Substitution of the subjective quality assessment by an objective measuring method

## Features

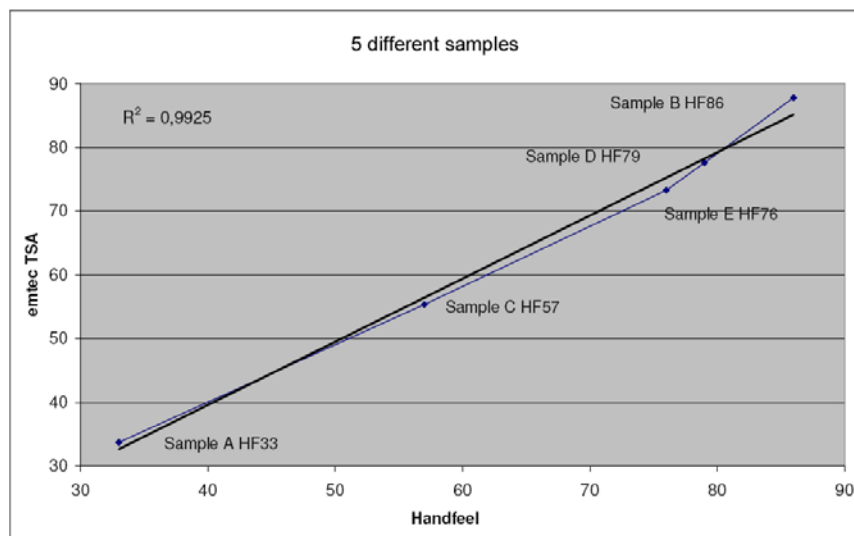
The softness is a fundamental quality parameter of tissue and fabrics. It may be characterized by e.g. smoothness, compressibility, stiffness and “crumpleability”.

There are other instruments on the market which are measuring all those single parameters. The results may be linked by complex functions and summarized to one value, which characterizes the subjectively felt softness in a more or less reliable way. However, previous method of evaluating softness is very expensive and not suitable for quality assurance.

The new Tissue Softness Analyzer TSA gathers all relevant single parameters at one time and calculates a softness parameter TS.

The correlation of the measuring results to the subjective assessment is excellent.

Example:



## Application area

- tissue paper
- fabrics

## Measuring duration

- approx 30 sec

## Measuring result

- absolute parameter "Tissue Softness TS"

## Advantages

- menu-driven measurement
- integrated measurement of ambient temperature and humidity
- easy handling
- robust construction
- objective measuring method, free from subjective influences
- high reproducibility of the results
- can be operated with or without PC
- results shown via integrated display
- if connected to a PC: result evaluation, data storage and trend presentation via high-performance PC software

## Software EMS

- very user-friendly and easy to operate
- easy handling in quality assurance

## Technical data

- sample dimension:  $\varnothing$  112,8 mm
- dimension of device: 440x190x470xmm (H x W x D)
- weight: 19 kg
- power supply: 230V, 50Hz / 115V, 60Hz