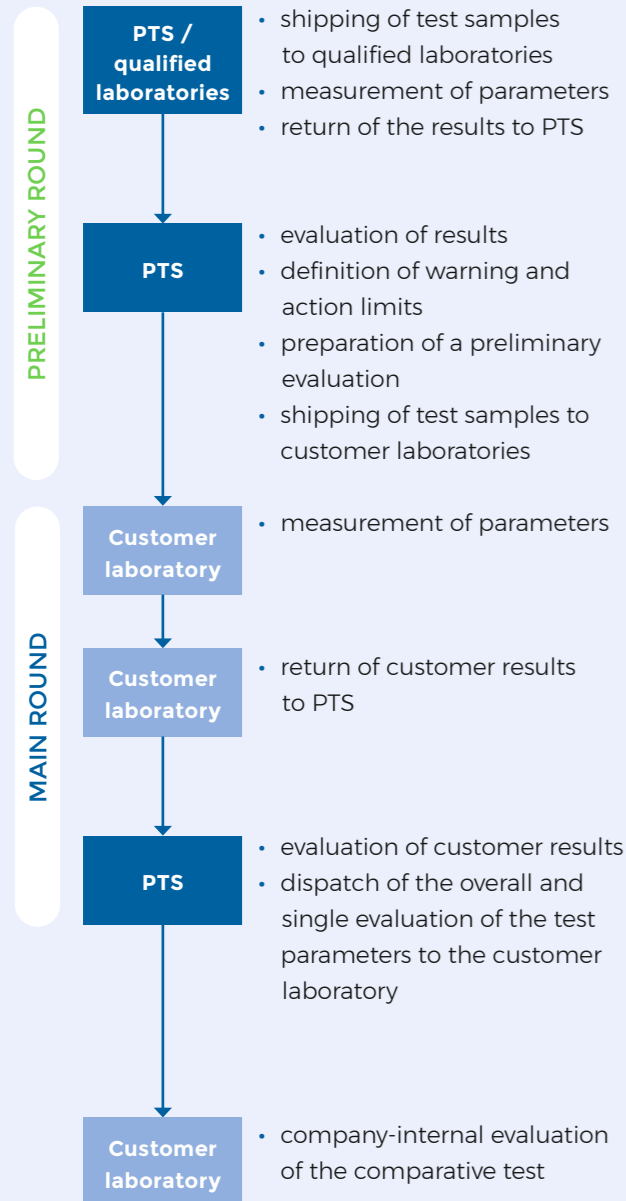


## CEPI-CTS Procedure



## Your advantages

- assurance of correct and comparable test results
- approved documentation for internal and external quality assurance, validation of measurement results
- detection of changes in the process flow as well as defects in the testing device
- improvement and standardization of operational procedures during the testing process
- development of a high and constant testing performance standard
- classification and evaluation of measurements in comparison to other companies / institutions
- information on further development of test methods and devices
- employee training and education
- competent representation towards customers, certification bodies and during customer audits

## Procedure and evaluation

- the comparative testing takes place twice a year
- sample sets of up to 3 different measuring ranges (levels) per test property available
- special formats for paper testing lines
- after completion of the comparative test you will receive an overall and individual evaluation of the test parameters
- our additional offer for you is the comparison and evaluation of your laboratory results with the values determined in the preliminary round by the qualified laboratories.



## CEPI-CTS

For more than 25 years PTS has functioned in the CEPI working group as a coordinating laboratory, distributing laboratory and qualified laboratory for comparative testing samples in the fields of paper, board, cardboard, corrugated board and tissue.

More than 400 satisfied customers from pulp production, paper production, board production, corrugated board production, tissue production, printing industry, chemical industry as well as converting and research already use the spectrum of more than 75 test parameters.

### Further information and registration:

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FIBRE based solutions



## CEPI Comparative Testing Service

more than 75 test parameters

already more than 400 satisfied customers

Accepted measurement validation for certified companies and facilities in paper production and converting

[www.ptspaper.com](http://www.ptspaper.com)



# Test parameters

## Basic properties

- Thickness
- Thickness corrugated board
- Grammage
- Moisture content

## Strength properties

- Tensile strength / Stretch at break (1924-2)
- Tensile strength after immersion in water
- Tearing resistance (Elmendorf)
- Tear growth (Brecht-Imset)
- Compressive strength (short span test)
- Ring crush test (RCT)
- Flat crush resistance (FCT)
- Concora Medium Test (CMT30)
- Edgewise crush resistance (ECT)
- Puncture resistance (PET)
- Scott internal bond strength
- Folding endurance (Schopper)
- Bursting strength paper (Mullen)
- Bursting strength board (Mullen)
- Bursting strength corrugated board
- Tensile strength / Tensile stretch / TEA / Stiffness (1924-3)

## Stiffness properties

- Bending stiffness resonance method
- Bending resistance (7.5° 15°; 50 mm)
- Bending stiffness static (5°; 50 mm)
- Bending resistance (15°; 10 mm)
- TSO / TSI - Tensile stiffness index / Orientation angle



## Chemical properties

- Kappa number
- pH of aqueous extracts
- Alkali reserve
- Residue (ash) at 525°C / 900°C

## Optical properties

- RX, RY, RZ Illuminant C
- RX, RY, RZ, Illuminant D65
- ISO Brightness, Illuminant C
- ISO Brightness, Illuminant D65
- Opacity, Illuminant C
- CIE Whiteness, Illuminant D65
- L\*, a\*, b\*, Illuminant C
- L\*, a\*, b\*, Illuminant D65
- L\*, a\*, b\* col. paper, Illuminant C
- L\*, a\*, b\* col. paper, Illuminant D65
- Gloss 75°, converging beam
- L\*, a\*, b\*, Illuminant D50, 45/0, M0/M1

## Structural properties

- Air permeance Bekk
- Air permeance Bendtsen
- Air permeance Gurley

## Tissue properties

- Tissue, Single-sheet thickness
- Tissue, Bulking thickness
- Tissue, Tensile strength after immersion in water
- Tissue, Residual water absorption time / capacity
- Tissue, ISO Brightness, Illuminant C
- Tissue, Tensile strength
- Tissue, TSA Softness
- Tissue, Grammage

## Surface properties

- Smoothness Bekk
- Roughness Bendtsen
- Roughness Parker Print-surf
- Coefficient of friction static / dynamic
- Coefficient of friction IPM
- Contact angle

## Printability properties

- Resistance to picking IGT
- Print penetration IGT
- L\*, a\*, b\* printed paper, Illuminant D50
- Optical density printed paper
- Linearity of a densitometer
- Resistance to picking, Dennison Waxes



## Miscellaneous

- Water absorption Cobb 60s (paper)
- Water absorption Cobb 600s (board)
- Water absorption Cobb 1800s (corrugated board)
- Drainability (Schopper-Riegler)
- Drainability ("Canadian Standard" freeness)
- Relative humidity
- Fibre length / width
- FINAT FTM 1 Peel adhesion (180°)
- FINAT FTM 3 Low speed release force
- FINAT FTM 9 'Loop' tack measurement

Do not leave your quality to chance!



## The CEPI-CTS helps you

- to optimize product quality
- to optimize operational procedures in the laboratory
- with inspection of measuring and testing equipment

## and supports you in

- quality planning
- quality assurance
- quality control
- quality improvement

The testing procedures are based on current ISO and EN standards.

