



Canadian Standard Freeness Tester

Code X.10.404.300

For determination of volume of filtrate discharged from a pulp

Applicable Standards : ISO 5267-1, TAPPI T227 om-94



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PULP Testing Equipment

PAPER TESTING ASSOCIATION

Device Description:

The device consists of a robust stainless steel frame where the brackets for the chamber and the spreader cone are mounted. The chamber drains into the spreader cone through a *PAPRICAN* calibrated screen plate at its lower end. The chamber can be closed by a bottom lid and a top lid. The top lid holds the air valve, which starts the draining process by opening it. The spreader cone holds the bottom orifice and the side orifice. These orifices allow to measure the Canadian Standard Freeness of pulp.

Test Description:

One liter of suspension, which has been prepared with the standardized disintegrator, needs to be poured into the chamber while the bottom lid is closed. The top lid and the air valve both have to be closed. Now the bottom lid can be opened. After opening the air valve mounted on the top lid the draining process starts. The suspension now runs through the calibrated screen plate and leaves behind a fiber mat, while the remaining water falls into the spreader cone. Depending on how fast the water gets to the spreader cone, more or less water will run through either one of the orifices. There is a measuring cylinder placed underneath each orifice. The slower the water drains from the chamber, the more water will flow through the bottom orifice. The amount flown through the bottom orifice in milliliters will give you the freeness of the pulp tested according to 5267-2 (Canadian standard method).

Specifications:

Stainless steel housing

Chamber and funnel made of special synthetic material

Shipment:

Canadian Standard Freeness Tester consisting of

- 1 Main rack with brackets for chamber and funnel
- 1 Chamber
- 1 Funnel
- 1 Calibrated bottom orifice and 1 side orifice
- 1 *PAPRICAN* calibrated screen plate
- 2 Measurement cylinders

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Models:

Manual model:

Testing sequence can be started by opening the air valve manually
Results can be visually read out on the measuring cylinders

Digital model:

Start button for commencing the process
Touch screen display to read out the measuring data (accuracy $\leq 1^\circ$ CSF)
Ability to save the data of 4 different testing processes
- Optional : consistency and temperature correction

Connections:

Electricity : 230 V / 50 Hz AC (digital model only)

WEIGHT AND DIMENSIONS (ONLY MACHINE):

360 x 330 x 860 mm (WxLxH) / 25 Kg

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