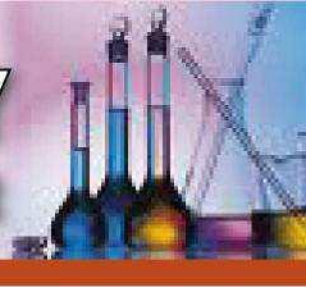




PAPER TESTING ASSOCIATION

LABORATORY Testing Equipment



TISSUE ABSORPTION APPARATUS

Code N6700

Tissue paper and tissue products

Water-absorption time and water-absorption capacity
basket-immersion

DIN EN ISO 12625-8



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Test description

This device for measuring the water absorption time and the water absorption capacity has been designed to closely follow the ISO standard 12625-8 to which it refers in two particular points very important :

- ✓ ***The basket should be dropped horizontally to a height of (25 ± 5) mm above the surface of the water***
- ✓ ***When it falls, the basket must be free so that its weight, strictly controlled to comply with the Standard, is not changed by contact with any other metal parts that could play during the immersion time.***



Specification

Water-absorption time and water-absorption device automatically allows :

- ✓ To measure the dry weight of the paper
- ✓ To measure the water-absorption time
- ✓ To measure the draining time
- ✓ To measure the wet weight of the paper
- ✓ To calculate the water-absorption capacity

The device is made of:

- ✓ A removable container for receiving demineralised water. A small tap is placed on the side to bring / to let the surface of the liquid to a known level.
- ✓ A system for attaching the basket at the start of the test
- ✓ A touchscreen display showing the results of the test as well as the weight variation curve.
- ✓ An "elevator" system to put the water container in position.
- ✓ Several buttons
- ✓ USB output
- ✓ One Ethernet output
- ✓ A fuse and electrical outlet

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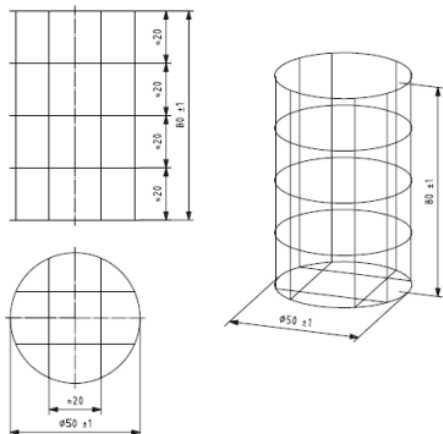
Procedure for entirely automatic measurement according the following steps:

- ✓ Measure and weight recording of the basket and the weight of the sample to be measured.
- ✓ The water tank will rise to position itself so that the surface of the water is always 2.5 cm from the basket.
- ✓ After a short time to stabilize the water level, the basket falls into the water.
- ✓ The time required for complete water absorption of the test piece is detected and it is raised.
- ✓ The basket remains completely immersed for 30 seconds.
- ✓ Once these 30 seconds have elapsed, the container goes down and the basket stays on the skimmer.
- ✓ The cylindrical basket is thus removed from the water, holding it in a horizontal position, and then it is inclined to form an angle of 30 ° with the horizontal
- ✓ The basket is held in this position for (60 ± 1 sec) to allow water to drain.
- ✓ The basket and its contents are then weighed immediately.

The test is then completed and the results are displayed on the screen

- ✓ The reference of the measurement
- ✓ Date and time
- ✓ Immersion time
- ✓ The weight of the dry sample
- ✓ The weight of the sample wetted at the end of draining
- ✓ The calculated ratio of water absorbed / weight of the paper sample
- ✓ Water absorption capacity (Wa), in grams per gram of each test piece.
- ✓ The water temperature at the time of measurement

Basket



Cylindrical basket, made of gauge wire, constructed of any non-corroding steel gauge wire with :

- ✓ A diameter of 0,5 mm to yield a total mass of the cylindrical basket of (3 ± 0,1) g, having a material density of 8,05 g/cm³.
- ✓ Height: 80 mm ± 1 mm
- ✓ Diameter: 50 mm ± 1 mm
- ✓ Weight : 3 g ± 0.1 g
- ✓ Square mesh of 20 mm

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