



**Thwing-Albert**  
**Instrument Company**

**More Than a Century of Testing Solutions**

**Semiautomatic Cobb Tester**  
**RL-SAC-A**



**RYCOLAB**

The RL-SAC-A is used to determine the water and oil absorption capacity of paper. The Cobb equipment allows you to measure the liquid amount that penetrates in a paper sheet. It is the calculated weight of the absorbed liquid in a specified time per 1 m<sup>2</sup> of paper.

- Unger type Cobb equipment.
- Sample test area 100 cm<sup>2</sup>
- Valid for water and oil.
- Timer with automatic audible alerts for start, pre-notice and end of test alarms.  
(batteries included)
- The cylinder vessel can be turned over for better immersion of the sample.
- Manufactured under standard specifications.
- Integrated pressure roller with a mass of 10 ± 0,5 Kg, standard specification.
- Glass vessel bottom to view absorption.
- Stainless steel construction.
- Includes cutting template and pad for ease of sample preparation.
- CE mark

**Instrument Dimensions**

- Instrument Dimensions (W x D x H):  
430 x 380 x 270mm (17 x 15 x 11 in)
- Net Weight: 20kg (44 lbs)
- Shipping Weights and Dimensions:  
580 x 450 x 380mm (23 x 18 x 15 in)  
Gross Weight: 30kg (66 lbs)

**Applicable Standards:**

- ISO 535, TAPPI T441, EN 20535,  
BS EN 20535, DIN 53 132, SCAN P12

## **Test Overview**

The RL-SAC-A Cobb tester measures the liquid amount that penetrates a paper sheet. It is the calculated weight of the absorbed liquid in a specified time per 1 m<sup>2</sup> of paper.

First pour 100 ml of liquid into the cylinder vessel. Weigh the dry sample (adjusting to the nearest milligram) and place it, with the side to be tested facing up and in contact with the perimeter of the vessel.

Turn the vessel 180° with the lever. The timer will activate automatically. The liquid contained in the cylinder will now be in contact with the sample.

The audible alarm indicates that the programmed time for pre-notice has expired. Return the vessel to its initial position.

Open the vessel cover, remove the tested wet sample and place it, with its wet face upwards, on a bottling paper. This bottling paper must be previously positioned on the movable support-basis

After the time determined by the industry standard you have selected is met, place a second bottling paper over the sample. Eliminate the excess of liquid from the sample by passing the 10 kg roller over the sample twice - one time forward and another time backward. Be careful not to apply any additional pressure to the roller when passing over the sample.

Next fold the sample with the wet side facing in, and weight again. Now you can calculate, in grams per meter square the liquid absorption.



In order to complete the Cobb test you will also need blotting papers from 200 to 250g/m<sup>2</sup> and an analytic scale with an accuracy of 0.001g.

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