

HST-CAT100 Semi-automatic Cobb Absorbance Tester



(The picture is for reference only)

Product Introduction

This instrument, the HST-CAT100, is an upgraded version designed according to the basic parameters and requirements specified in GB/T1540-1989, "Determination of Water Absorption of Paper and Paperboard (Cobb Method)". The instrument features a touchscreen, including the commonly used absorption time in the standard, automatic timing, and an alarm prompt when the time is up. This standard is applicable to determining the water absorbency of various paper or paperboard surfaces. However, it is not applicable to accurately evaluating the writing performance of paper or paperboard.

Paper and Paperboard Surface Water Absorption (Cobb) Value: The amount of water absorbed by the surface of paper and paperboard per unit area under certain pressure and temperature within a specified time, expressed in g/m². The specific formula is as follows: $C = (G_2 - G_1) \times 100$. Where: C - Cobb water absorption value; G₂ - mass of the sample after water absorption; G₁ - mass of the sample before water absorption. The paper and paperboard absorbency tester is a standard instrument for testing the surface water absorbency of paper and paperboard, also known as a paper surface absorption weight tester. This instrument employs the Cobb test method, one of the various methods for absorbency testing, and is therefore also called the Cobb Absorbency Tester.

Technical Parameters:

1. The inner cross-sectional area of the metal cylinder is 100±0.2 cm² (corresponding inner diameter 112.8±0.2 mm), the cylinder height is 50 mm, and the part of the cylinder's annular surface in contact with the sample should be smooth.

2. The basis weight of the absorbent paper is 200–250 g/m², and its absorption rate is 75 mm/10 min.
3. When the basis weight of a single layer of absorbent paper is less than 200–250 g/m², multiple layers can be stacked to meet the requirements.
4. Smooth metal flat roller: the roller width is 200±0.5 mm, and the mass should be 10±0.5 kg.
5. Equipment Material: 304 Stainless Steel
6. Timing: Built-in timer; timing starts simultaneously with flipping the device.
7. Display: Touchscreen with standard test times and remaining water removal time.
8. Standard Water Absorption Time: Multiple standard times are built-in; the device automatically operates according to the selected time.
9. Dimensions: 390×280×410 (mm), Weight: 20kg

Product Features

1. Durable and rust-free stainless steel construction.
2. Water level indicator in the storage tank for easy monitoring of water level.
3. Built-in stopwatch with reminders for remaining water removal and water absorption completion.
4. Selectable test times: 30s, 60s, 120s, and 360s.
5. Timing starts simultaneously with water absorption upon flipping the device.



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