

## **WATER DROP TESTER (SURFACE WETTABILITY TESTER)**

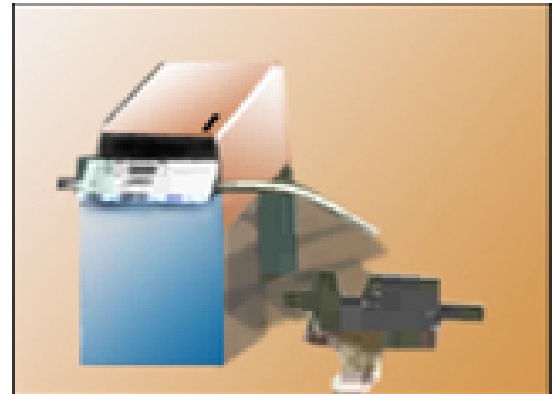
**(STFI TYPE)**

**CATALOGUE NO.: GEC-P40123**

**Water Drop Tester** measures the angle of contact, oil wetting agent & size for corrugated fiber Board when a drop of liquid is applied to the surface of a specimen of paper. Contact angle measurements can be used as a tool for understanding the wetting between a liquid droplet and a substrate. Projection screen of matt glass 160x90mm magnification 25 X is provided.

### **Test Description :**

A specimen is cut to the proper dimensions and put into the feed mechanism. The syringe or container is then filled with the test liquid, and the test can start. Individual images are captured throughout the test. Between each drop, the specimen is advanced until the requested number of drops have been measured. The average result and variation of contact angle (wetting), volume (sorption) and base diameter (spreading) is reported as a function of time.



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### **APPLICABLE STANDARDS :**

**TAPPI T558, ASTM D-5725**

### **Salient Features:**

- Fast evaluation of contact angle (wettability) volume and drop base diameter (spreading) as a function of time.
- Accurate timing of drop application to first image.
- High precision pumps.
- Excellent repeatability for the testing of contact angles and volumes.
- Allows visual and statistical evaluation.
- Precision pulse system for gentle application of the droplet.
- Measure surface tension of the probing liquid.
- Compare a series of tests to obtain accurate results.
- Calibration and validation as per international standards.
- Power supply 220V. 50 Hz, Single phase.

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