

AATCC 201 Drying Rate Tester GT-D61



Application:

Drying Rate Tester: test method determines the drying rate of a fabric, exposed to a prescribed volume of water, while in contact with a heated plated set at 37 °C , the skin surface temperature at which the human body starts to perspire.

This method is applicable to all types of fabrics, including knits, wovens, and non-wovens, as well as to fabrics taken from end product items.

Drying Rate Tester Principle

This method determines the drying rate of a fabric based on the evaporative rate that occurs when the fabric is placed in contact with a prescribed amount of water at the interface of a heated metal plate, held to a constant temperature.

Main Parts

1. Temperature recorder--with capabilities to take readings every 1s, date storage, and transmittal to computer date file.
2. IR thermocouple probe--temperature range of 15.0-50.0±0.1°C.
3. Fan box--production of 1.5± 0.5m/s air flow across the width of the hot plate, measured directly behind the IR thermocouple probe.
4. Metal plate--30.5×30.5±0.5cm.
5. Flexible heater--30.5×30.5±0.5cm with controller to maintain temperature of 37±1°C.
Cork board for insulation--30.5×30.5±0.5cm.
6. Micro pipette, adjustable volume, 0.100-1.000±0.003mL.
7. Anemometer--hot wire-type, capable of measuring air flow 0.5-2.5±0.1m/s.
8. Magnetic, plastic or metal strip, 15.0cm long, 4.0 ± 2.0cm wide, 0.2 ± 0.1cm thick, can be used to hold the specimen in place.

Key Specifications

Heated Plate	30.5×30.5±0.5cm
Temperature of Heated Plate	37 ± 0.1 °C
Resolution Ratio	0.01 °C
Air Speed	1.5m/s ± 0.5m/s
Temperature of IR Thermocouple	15~50°C±0.1 °C
Testing Thickness	0~10mm
Water Drops	0.2ml ± 0.001mL(adjustable)
Data Transmission	WiFi
Standards	AATCC 201
Power supply	AC220V±10%,100W