

INFRA RED MOISTURE METER

BE 04

This moisture meter is a portable device designed to quickly and accurately measure the moisture content in various materials. It uses a torsion wire mechanism where a calibrated drum applies torque to one end of the wire to counterbalance the weight loss as the sample dries under infrared radiation. This rapid drying process, taking about 30 minutes, combined with a frictionless balancing system, delivers results as precise as traditional oven drying methods. The simultaneous drying and weighing feature makes it ideal for materials that quickly reabsorb moisture after drying. A voltage regulator controls the infrared radiation for precise heat management, and an indicator lamp signals when the device is powered on.

The torsion balance includes a magnetic damper to minimize pan vibrations, enabling faster and more stable weighing. The balance scale (drum) displays moisture percentages on a wet weight basis, with graduations from 0 to 100% in 0.2% increments, and readings can be estimated to 0.1% accuracy. The unit comes equipped with an infrared lamp and an L-shaped thermometer and operates on a 220 V, 50 Hz, single-phase AC power supply.

STANDARD FOLLOWING

IS 2720 (PART 2)



DESCRIPTION

Capacity	5g apporx.
Sensitivity	10 mg apporx.
Range	0 to 100% moisture content a wet weight basis
Reading Accuracy	$\pm 0.20\%$
Probable error	$\pm 0.25\%$ in the lower range up to compared to 25% and $\pm 1\%$ for moisture contents.
Oven Method	Above 50 %

EXTRA ACCESSORIES

- BE 04-01 - Infra Red Lamp
- BE 04-02 - Thermometers (L-shaped)
- BE 04-03 - Torsion Wire, pack of six