WIRA Electronic Fibre Fineness Meter

Order Code FFM:ELE

The WIRA Fibre Fineness Meter utilises the well proven air flow principle with which the average diameter of wool fibres can be obtained quickly. An on-board microprocessor automatically controls the operation of the instrument and calculates test results for direct reading on a liquid crystal display, and if required, relayed to a printer or PC, using optional Windows software.

Results can be automatically stored on the instrument and downloaded at the end of a testing session.

Calibration

Each meter is calibrated using standard dry-combed tops available from Interwoollabs. Calibration for dry combed tops is carried out in accordance with method 2 in test method IWTO-6-98. For the testing of loose wool core samples, the meter is calibrated using short randomised open fibre, prepared from standard tops following the procedure laid down in test method to IWTO-28-00.

Special calibration is available for the testing of fibres other than wool e.g. cashmere, mohair etc.

Optional temperature and humidity probe allows automatic recording of lab conditions.

Test Method

A 2.5g sample of fibres is placed in the sample chamber. Air is drawn through the sample by a vacuum pump supplied with the instrument. Electronic sensors measure both the airflow and the air pressure, from which the fibre diameter is automatically calculated.

Features

- Automatic calculation of values
- Direct reading of results
- Complies with latest IWTO recommendations
- On-board Microprocessor
- Ergonomically designed
- Electronic flow and pressure sensors
- 80-character liquid crystal display
- Soft touch keypad
- RS232 output to printer or PC
- Re-calibration facility included with software
- Full calibrated service available for existing instruments