CEMENT > FINENESS OF CEMENT

BLAINE APPARATUS (Manual)

Code : C035



- The Blaine Air-Permeability Apparatus is designed to determine the fineness of hydraulic cement by measuring its specific surface area, expressed in square centimeters per gram or square meters per kilogram.
- The apparatus operates by drawing a defined volume of air through a compacted bed of cement with a specified porosity. The resistance to airflow is measured to calculate the specific surface area, providing an indication of the cement's fineness.
- Constructed with high-quality materials, including a stainless permeability cell and plunger, the apparatus ensures durability and consistent performance in laboratory environments.
- The inclusion of a U-tube glass manometer with a valve allows for precise measurement of pressure differentials during testing, enhancing the accuracy of results.
- The apparatus is supplied with essential accessories, such as filter papers, and a rubber aspirator bulb, facilitating immediate use upon setup.

STANDARDS

ASTM C204 • EN 196-6 • AASHTO T153 • BS 4359-2

TECHNICAL SPECIFICATIONS

- Manometer: U-tube glass with valve
- Stainless Permeability Cell and Plunger
- Perforated Disc: Non-corroding metal, 0.9 mm thick, 30–40 holes of Ø 1 mm
- Filter Paper: Circular, matching cell diameter

AVAILABLE MODELS

- Manual Model:
  - Classic manual operation model suitable for basic blaine air permeability testing.
- Semi-Automatic Digital Model:
  - Includes integrated vacuum pump
  - Features minimum/maximum water level sensors
  - Displays elapsed time on a 3.5” touchscreen interface
- Fully Automatic Digital Model:
  - Equipped with vacuum pump, min/max water level sensors, and vacuum level sensor
  - Operated via a digital touchscreen control unit
  - Automatically performs calculations and displays results on a 7” touchscreen interface

ORDERING INFORMATION

Item Name	Item Code
AUTOMATIC BLAINE AIR-PERMEABILITY APPARATUS - Digital	C035A00XU

BLAINE AIR-PERMEABILITY APPARATUS - Manual	C035H00XH
FILTER PAPER for C035	C035P001H
GLASS U-TUBE MANOMETER for C035	C035P002H
SEMI-AUTOMATIC BLAINE AIR-PERMEABILITY APPARATUS - Digital	C035S00XU