

CEMENT > FINENESS OF CEMENT

BLAINE AIR-PERMEABILITY APPARATUS

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, manometer liquid, 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	Code
BLAINE AIR-PERMEABILITY APPARATUS - Manual	C035H00XH
SEMI-AUTOMATIC BLAINE AIR-PERMEABILITY APPARATUS - Digital	C035S00XU
AUTOMATIC BLAINE AIR-PERMEABILITY APPARATUS - Digital	C035A00XU
FILTER PAPER for C-035	C035P001H
GLASS U-TUBE MANOMETER for C-035	C035P002H

OTHER PHOTOS

