



Fineness

To determine the fineness of cements, pozzolanas and other powdery materials, various international specifications recommend the use of "specific area" method. In the instrument described below, air permeability method is used to determine the specific surface as total surface area in cm^2/g of material.

Air Permeability Apparatus

(Blaine Type) with ISI Certification Mark, IS:5516

AIM 390

Ref. Standards : IS:1727, 4031, 4825

It is a variable flow type Air Permeability Apparatus.

The equipment consist of the following replaceable parts :

- AIM 39001 Permeability Cell.
- AIM 39002 'U' Tube Manometer, mounted on stand.
- AIM 39003 Perforated Metal Disc.
- AIM 39004 Plunger.
- AIM 39005 Rubber Stopper.
- AIM 39006 Rubber Tube, 20 cm long.
- AIM 39007 Filter Paper Discs (Twelve Nos.).
- AIM 39008 Dibutylphthalate Liquid, 100 ml bottle.
- AIM 39009 Punch.
- AIM 39010 Non Perforated Disc.
- AIM 39011 Suction Bulb.



AIM 390

Ordering Information :

AIM 390 Air Permeability Apparatus (Blaine Type) with ISI Certification Mark, IS:5516

Note: As per BS/ASTM is also available on request

Automatic Blaine Apparatus



AIM 391-3 & AIM 391-4

Ref. Standards : IS:1727, 4031, 4825

Blaine apparatus is used to determine the fineness of cement

The Aimil - Automatic Blaine has the following features:

- Single touch operation:
 - Automatic control of the movement of fluid until the upper mark.
 - Automatic sensing of the upper & lower marks ensuring error free repeatable measurement of the time taken for the liquid column to fall.
 - Automatic measurement of temperature during the test using a Pt 100 probe.
 - Automatic correction of formula for calculation of the Blaine value per IS:5516 with variation in temperature.
- Facility to operate in either Standalone Mode or through a Computer Controlled system complete with software.
- Login Facility as Supervisor & Operator.
- Report Generation based on Date/Time, User type & type of cement in Excel or (.CSV) format.
- Facility to Monitor and Configure various Cement types.
- User Programable K factor.
- Power Consumption less than 5W.



AIM 391-3

Note: In the AIM 391-4 model, there is no onboard data acquisition and no option of changing the K factor from the keypad, these are only possible using a computer (not included as a part of instrument).

Ordering Information :

AIM 391-3 Automatic Blaine Apparatus, with inbuilt data recording and control system.

AIM 391-4 Automatic Blaine Apparatus, with PC based data recording and onboard control system