

Fineness

TM-203

Blaine Air Permeability Apparatus

Fineness (specific surface)

IS 5516

Blaine air permeability apparatus to IS 5516 for the fineness of cement as specific surface, with stainless steel cell, perforated disc and glass manometer.

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Description

Finds the fineness of cement as specific surface (cm²/g). A bed of cement is compacted in the permeability cell, and the time air takes to pass through it is measured by the fall of liquid between the etched lines of the manometer. Finer cement packs tighter and slows the air.

The permeability cell is stainless steel with a 12.7 mm bore, and the perforated disc that holds the bed is 0.9 mm thick with 30 to 40 holes of 1 mm. The U-tube manometer is borosilicate glass, mounted upright on a stand. One arm takes the cell on a conical socket and carries four etched lines and a T-joint, with an airtight stopcock and a rubber bulb to draw the liquid up.

The manometer is filled to the lowest line with a light, non-volatile liquid such as dibutyl phthalate or light mineral oil.

Supplied ready for use with operating manual and test certificate. Contact us for configuration options, accessories and calibration services.

Technical specifications

Permeability cell	Stainless steel, 12.7 ± 0.1 mm ID
Perforated disc	Brass or stainless steel, 0.9 ± 0.1 mm thick, 30 to 40 holes of 1 mm
Manometer	U-tube, borosilicate glass 9.0 ± 0.4 mm OD, four etched lines
Air control	T-joint with airtight stopcock, rubber tube and bulb
Manometer liquid	Dibutyl phthalate or light mineral oil
Mounting	Vertical stand

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