

==SAMPLING

●● HC 35.05

Tube Sampler for packaged Cement
IS: 3535-1966, (ASTM C - 183)

It is used for sampling of cement from bags and consists of a brass tube approximately 28 mm inside diameter. It carries wooden handle at one end and is bevelled at the other end. An air hole is provided near the handle. The volume of the sampling tube is approximately 300cc. and it can collect approximately 750g of cement in one operation.



HC 35.05

●● HC35.10

Slotted Tube Sampler for Bulk Cement
IS : 3535-1966, ASTM-183

These samplers are used for sampling of cement from wagons and from ship's hold.

The sampler consists of two telescopic brass tubes with slots along their lengths. The slots can be opened for collecting the sample and then closed by rotating the inner tube. The tube has a conical end for easy penetration. These samplers are between 1.5 to 1.8 m long with about 35 mm O.D for sampling from ship's hold and can be used up to 2 m depth.

These are about 60 cm in length when required to be used for sampling from wagons.



HC 35.10

FINENESS

●● HC36.05

Variable Flow Type Air Permeability Apparatus (Blaine Type) With I.S.I. Mark, IS : 5516-1969.

It is used for determination of fineness of cements, pozzolanas and other powdery materials in terms of specific surface, which is expressed as total surface area in square centimeters per gram of the material under test.

The apparatus comprises the following :-

- i) Standard permeability cell made of brass, 12.5 mm inside dia with one perforated metal disc and one plunger.
- ii) A U-Tube glass manometer with rubber coupling for permeability cell, mounted on a steel stand.
- iii) Latex rubber tubing, 30 cm long along with suction bulb.
- iv) 10 filter paper discs, No. 40 whatman.
- v) 250 ml Dibutylphthalate liquid.



HC36.05

ACCESSORIES :

- HC36.05.1 Filter paper punch
- HC36.05.2 Non perforated disc.
- HC36.05.3 Suction Bulb
- HC36.05.4 Rubber coupling.
- HC36.05.5 Permeability Cell.

●● HC36.10

Constant Flow Type Air Permeability Apparatus (Lea & Nurse Type) IS : 5536-1969.

Used for measuring the specific surface of powdery materials expressed as total surface area in square cms per gram of the material.

Dry air at a constant velocity is passed through the prepared bed of material contained in permeability cell. The pressure drop across the bed of material and the rate of air flow are measured by the manometer and flow meter respectively.