

Air Entrainment Meter

ZI 2050



Air Entrainment Meter : ZI 2050

IS 1199 1959 & BS 1881-106

As entrainment of air in limited percentage improves durability of concrete and very low percentages deteriorate it , measurement of air entrapped in freshly mixed concrete becomes important. The use of chemical additives to increase workability of concrete in turn requires an air content check to be made. Air entrainment meters are used to determine air entrained in freshly mixed concrete by pressure method.

SPECIFICATION :

The apparatus consists of a pressure tight flanged cylindrical measuring bowl of 0.005 cubic meter capacity for maximum size of aggregate 38mm. The bowl is fitted with a removable flanged conical cover assembly with the help of a seal. The conical cover has an air valve and a petcock for bleeding off the water. A transparent cylindrical stand pipe which is graduated in air content is fixed to the conical cover assembly. Pressure is applied to the specimen with the help of a pressure bulb and the pressure is recorded on the pressure gauge which is mounted on the stand pipe. The whole assembly is mounted on a flat base. The instrument is supplied complete with one each following accessories. Calibration cylinder with spring clamp, trowel, tamping rod, straight edge. Rubber mallet and measure.

ZI 2051

AIR ENTRAINMENT METER : Same as ZI 2050 but 0.007 cubic meter capacity for maximum size of aggregates 38mm.

ZI 2052

AIR ENTRAINMENT METER : Same as ZI 2050 but 0.01 cubic meter capacity for maximum size of aggregate 75mm.

ZI 2053

AIR ENTRAINMENT METER : Same as ZI 2050 but 0.1 cubic meter capacity for maximum size of aggregate 150mm.

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