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MI.GE-1004A Permittivity Tester

These test methods cover procedures for determining the hydraulic conductivity (water permeability) of geotextiles in terms of permittivity under standard testing conditions, in the uncompressed state. Included are two procedures:

The device consists of an upper and lower tank, which fasten together with 4 set of nuts. The geotextile specimen is positioned in the bottom of the upper tank. There is a standpipe for measuring the constant head value. The rotating discharge pipe on the right side of the instrument allows adjustment of the head of water at the bottom of the specimen.

Constant head method and the falling head method.

Constant Head Test: A head of 50 mm water is maintained on the geotextile throughout the test. The quantity of flow is measured versus time. The constant head test is used when the flow rate of water through the geotextile is so large that it is difficult to obtain readings of head change versus time in the falling head test.

Falling Head Test: A column of water is allowed to flow through the geotextile and reading of head changes versus time is taken. The flow rate of water through the geotextile shall be slow enough to obtain accurate readings.

Technical Specifications:

Sample Size	50 mm
Max. Head can be maintain of the sample	40 CM
Least Count for water head	1 MM
Outer Diameter of sample Holder	72 MM
Thickness of sample	Up to 8 mm
Dimensions	900 x 250 x 800 MM (L X B X H).
Weight	28 Kg Only For permittivity
Related Standard	ASTM- D 4491 – 99a, IS-14324

