

GENERAL INFORMATION

This device is intended to measure the fluid absorption properties of a material placed on the fritted disk of the device. The device is designed to maintain a constant fluid level at the fritted disk.

APPARATUS SETUP

Mount the glassware so that the fritted disk in the sample receiver is level and facing up. The Fluid reservoir should also be level and vertical. The measuring tube should be as level as possible and horizontal. The measuring tube should be level with the fritted glass surface of the sample receiver.

PROCEDURE

1. Place the top stopcock valve in the closed position and the bottom 3-way stopcock valve in the position that allows flow from the measuring tube to the sample receiver.
2. Fill the fluid reservoir with the test fluid.
3. Fill the entire apparatus with the test fluid, to the level of the fritted disk in the sample receiver. Make sure that all bubbles are removed.
4. Adjust the level in the measuring tube to the "0" at the end. Use the top stopcock valve to add fluid and the bottom 3-way stopcock valve to drain the excess fluid.
5. Place the bottom stopcock valve in the position that connects the measuring tube to the sample receiver.
6. Cover the opening of the sample receiver with plastic film. Punch a pinhole in the film to allow pressure equilibrium.
7. Allow the device to stand for a minimum of 16 hours before adding the sample. This is done to check that the device is level and no water movement has occurred.
8. Dry, grind and screen the sample to pass through a 325 mesh screen.
9. Place 0.2000 grams of sample on the fritted disk of the sample receiver.
10. Re-cover the sample receiver with the punctured plastic film.
11. Record the amount of fluid absorbed versus time.

For more information, please contact us:

[ExpotechUSA](#)
[10700 Rockley Road](#)
[Houston, Texas 77099](#)
[USA](#)

[281-496-0900 \[voice\]](#)

[281-496-0400 \[fax\]](#)

E-mail: sales@expotechusa.com

Website: www.ExpotechUSA.com