Permeability

Equipment Required

- Fine aggregate, FA-20: 700g per group
- Mineral Filler (MF): 150g per group

Sample Preparation

1. Mix the FA-20 and MF thoroughly and put it into a container.
2. Determine the specific gravity of the FA-20/MF composite soil.
3. Connect the permeability burette, tank and hoses.
4. Fill the tank about 1/2 full with deaired water. Place a stool on the counter and put the tank on the stool.
5. Measure and record mass of soil to be placed in the permeameter.
6. Put a porous stone in the bottom of the permeameter. Put the soil in the permeameter in layers, lightly tamping each layer. Put a porous stone on top of the soil.
7. Put the permeameter top on and be sure the spring is in contact with the top porous stone is compressed at least one-half its height.
8. Measure and record the height and diameter of the sample.
9. Fill the permeameter with water and remove air from the tubes and specimen.
10. Write on the blackboard the following for each group:
    - total mass of soil in the specimen,
    - proportion of the gradations used,
    - specific gravity of the soil specimen
    - height and diameter of the specimen.