



The differences in soil properties are largely determined by the grain size distribution. Determination of the particle size distribution can be done by various methods, including sieving and pipetting. The pipette method is used to determine the finest fractions.

Applications

- Geotechnical soil research
- Soil physical laboratory research
- Erosion research

Key Features

- Large insert depth of the pipette of 350 mm
- Temperature influences on sedimentation controlled by thermostat
- Determination of multiple samples simultaneously
- Operates in accordance with NEN 5753 and ISO/DIS 11277



Specification

Maximum number of samples	7
Sample specification	Disturbed
Measuring range	< 38 microns
Reading accuracy	Depending on weighing equipment
Voltage	230 volt 50/60Hz
Power supply	Line voltage
Package dimensions	120x80x100 cm
Weight	75 kg



Method

The pipette method

This method is based on the difference in sedimentation speed between small and large soil particles. Sedimentation of particles is the result of two opposing forces: gravity and friction, resulting from movement in a fluid medium.

First, carbonates, organic substances and possible iron oxide need to be removed because of their binding function. The sample is then suspended in water in a measuring cylinder and pipetted at different times and different depths, based on the Law of Stokes. The pipetted suspension is condensed and dried. Weighing determines the mass ratio of the pipetted fraction.

Table model 08.16.SA

This model can be placed on a laboratory table as an autonomous unit. Using the basic set, the fractions of 7 samples can be determined simultaneously. The standard set includes:

- Runner with pipette holder
- Table frame
- Glass tank
- Heating element with thermostat and stirrer
- Pipette upper section and pipette lower section
- Pipette balloon
- Glass sample cylinders
- Rubber stoppers
- Sodium hexametaphosphate

Wall model 08.16.SB

This model can be mounted to a wall and used to research samples in different tanks. Multiple wall models can be connected, to research many samples in multiple tanks. The standard set includes:

- Wall frame with runner for pipette holder
- Pipette set
- Glass tank
- Heating element with thermostat and stirrer
- 7 sedimentation cylinders and rubber stoppers
- 1 kg of sodium hexametaphosphate

