

PARTICLE SIZE DISTRIBUTION

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P1.83

08.30 Hydrometer kit, standard set

To obtain an accurate determination of the particle size distribution of the smallest fractions it is possible to apply the hydrometer method.

In this method the sample is cleaned from organic matter after which it is dried and weighed.

Next it is suspended in water and sieved.

The solution that passes through the sieve is transferred to a measuring cylinder with water. Hydrometer readings are taken after regular intervals. Sedimentation time and hydrometer readings are used to determine the grain sizes according to the Stoke's Law.

The hydrometer kit, among other items, contains: a number of hydrometers, sedimentation cylinders, a thermometer, a glass container, a heating element with thermostat and stirrer, a soil stirrer and various accessories.

08.05.04 Mini hand sieves set

The mini hand sieves set is used for the determination of the particle size distribution of small quantities of soil in the laboratory as well as in the field.

The set contains sieves, lid and receiver, brush and a storage bag.

08.04 Sand rulers

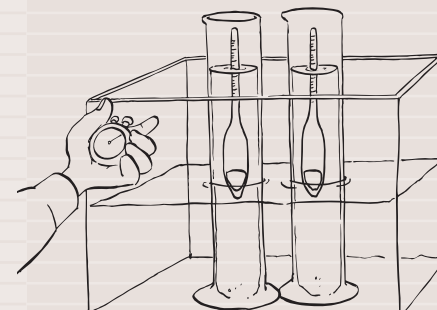
A sand ruler is a disc made of transparent material with standard (specimen) samples. It is an excellent indicative aid in determining the particle size distribution.

Of the sample to be tested a representative part is rubbed dry with the fingers in the palm of the hand.

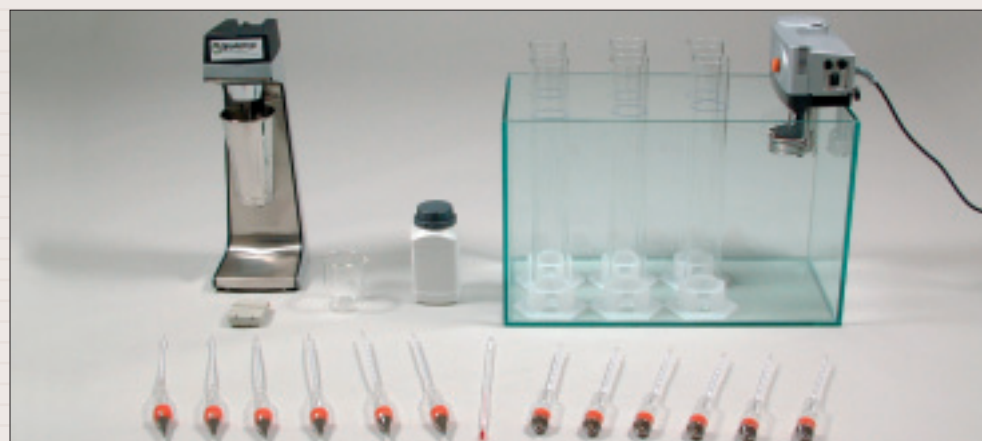
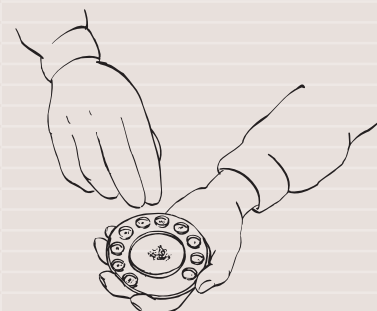
The sample is then placed in the hollow area in the center of the ruler. The average grain size is now judged by comparing the average grain size of the sample with the specimen in the ruler.

The sand ruler is available with different fractions.

The hydrometer is read.



The average grain size is compared to the specimen samples.



Hydrometer kit



Mini hand sieves set



Sand ruler with ten fractions

