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so many fake sites. this is the first one which worked! Many thanks

### 3.1 Liquid limit with Casagrande cup. BS 1377: Part 2:1990 (ASTM D4318)

#### Scope of the test

The liquid limit of soil is the water content, expressed as a percentage of the weight of the oven dried soil, at the boundary between the liquid and the plastic state. The water content at this boundary is arbitrarily defined as the water content at which two halves of a soil cake will flow together for a distance of 13 mm along the bottom of the grove separating the two halves, when the cup is dropped 25 times for a distance of 1 cm at the rate of 2 drops/s.

Note: The difference between the American and British Standard, is the difference in base plate of the Casagrande cup. The British standard defines a relative soft rubber base, the American standard a harder ceramic one. Because of this difference, the results of the British method are generally higher.

#### Apparatus used

- Casagrande cup, according the ASTM or BS standard.
- Flat glass plate about 500mm square.
- Mass balance accurate to 0.01g.
- Drying oven
- Glass egg or tin dishes
- Spatula

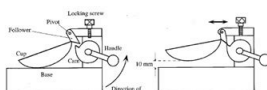


Fig. 3.1.1 Casagrande apparatus

#### Sample preparation

Place the soil sample, weighing about 250 g, from the thoroughly mixed portion of the material passing the No. 40 (425-µm) sieve obtained in accordance with the test standard in a porcelain evaporating dish (about 114 mm in diameter) and thoroughly mix with 15 to 20 ml of distilled water by alternately and repeatedly mixing, kneading, and chopping with a spatula. Mixing can also be done on a glass plate in the case care that be taken to keep the bulk sample at the same moisture content. Make further additions of water in increments of 1 to 1 ml. Thoroughly mix each increment of water with the soil as previously described, before adding another increment of water.

#### Test procedure

When sufficient water has been thoroughly mixed with the soil to produce a consistency that will require 30 to 35 falls and drops of the Casagrande cup to cause closure of the groove.

Place a portion of the mixture in the cup above the spot where the cup rests on the base. Squeeze



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