

**Product Name :**  
Liquid Limit Device**Product Code :**  
Soil Testing0005**Description :**

Liquid Limit Device

**Technical Specification :**

Casagrande method in mechanical form is known as Liquid Limit Method and has been in use for soil mechanics for a number of years. The Liquid Limit data of soils is useful to correlate mechanical properties of soil, such as compressibility and lower shear strength. Liquid limit is the water content at which soil passes from zero strength to an infinitesimal strength, hence the true value of liquid limit cannot be determined. For determination purpose liquid limit is that water content at which a part of soil, cut by groove of standard dimensions, will flow together for a distance of 1.25cm under an impact of 25 blows in a standard liquid limit apparatus. The soil at the water content has some strength which is about 0.17 N/cm/sq.cm. (17gms/sq.cm.) At this water content soil just passes from liquid stage to plastic state.

Specifications: It consists of a brass cup held on an adjustable bracket. The cup can be adjusted for a fall of 1cm and can be raised and dropped on a rubber base of standard hardness by cam action. Complete with one Casagrande grooving tool, one ASTM Grooving tool and a height gauge block.

