MODEL TO-040 & TO-041



Liquid Limit Device



Key features

- High quality design that ensures consistent results.
- Compliant with most relevant international standards.
- Motorized version with an integrated counter available.

he liquid limit is the level of water content at which soil changes from liquid to a plastic state. From an instrumentation perspective, the liquid limit is measured as the point where two halves of a soil sample flow together when jolted in a particular fashion.

The equipment consists of a brass cup, which is repeatedly dropped a distance of 1cm onto a hard rubber base.

Typical procedure

The soil sample is placed in the cup and a groove applied down the centre of the sample using the Casagrande grooving tool and gage block. The cup is raised and allowed to fall a distance of 1cm onto a hard rubber base, at a rate of two drops per second, during which the groove closes up gradually as result of the impact. The number of drops required for the groove to close is recorded.

APPLICABLE STANDARDS

ASTM D4318; AASHTO T89, T90; BS 1377; IS 9259

STANDARD FEATURES

- TO-04102 Grooving tool and gage for BS
- TO-04101 ASTM grooving tool

ORDERING INFORMATION

BS Standards

- TO-o4o-BS-o1 Motorized Liquid Limit Device for 110V 60Hz
- TO-040-BS-02 Motorized Liquid Limit Device for 220V 60Hz
- TO-040-BS-03 Motorized Liquid Limit Device for 220V 50Hz
- TO-041-BS Manual Liquid Limit Device

ASTM Standards

- TO-o4o-ASTM-o1 Motorized Liquid Limit Device for 110V 60Hz
- TO-o4o-ASTM-o2 Motorized Liquid Limit Device for 22oV 6oHz
- TO-o4o-ASTM-o3 Motorized Liquid Limit Device for 22oV 5oHz
- TO-041-ASTM Manual Liquid Limit Device

OPTIONAL ACCESSORIES

- TO-04102 Grooving tool and gage for BS
- TO-04101 ASTM grooving tool