

LIQUID LIMIT AND PLASTIC LIMIT DEVICE

In the classification of soils for use in highway design, the liquid limit and the plasticity index (PI) are the most important. The plasticity index gives the best measure of the plasticity of the soil. It is the difference between the liquid limit and the plastic limit.

The Liquid Limit is the water content at which the soil changes from the liquid state to a plastic state. It is the minimum moisture content at which a soil flows upon application of very small shear force. The Plastic Limit is the water content at which a soil changes from the plastic state to a semisolid state.

PLASTIC LIMIT TEST SET 22-T0041

STANDARD: ASTM D4318 / AASHTO T90 / BS 1377:2 / UNE 103-104 /

ACCESSORIES

- ⊙ Plastic limit plate 300 × 300 mm
- ⊙ Stainless steel rod 3 mm dia
- ⊙ Mixing dish 120 mm dia
- ⊙ Moisture tin 75 mm dia. × 30 mm × 6pcs
- ⊙ Graduated cylinder 100ml
- ⊙ Spatula

Each item can be ordered individually

UNI 10014 / NF P94-051



LIQUID LIMIT DEVICE

STANDARD: BS 1377-2, ASTM D4318, AASHTO T89

Used to determine the moisture content at which clay soils pass from a plastic to a liquid state.

22-T0030/E Hand-operated liquid limit device

22-T0031/E Motorized liquid limit device, 220 V, 50 Hz. Falling frequency: 120 strikes/min(2~280 adjustable).



22-T0030/E



22-T0033 (AASHTO)

22-T0034 Height gauge (10mm)

22-T0032 (BS)

22-T0032/AE (ASTM, EN)



22-T0031/E

DIGITAL LIQUID PLASTIC LIMIT UNITED DEVICE

The equipment is used to determine liquid and plastic limits of soil, thus to provide reliable data to classify soil types, calculate natural consistency and plasticity index.

Digital display technology is adopted for this machine and automatical measurement can be performed.

Max. measuring range	45mm
Resolution	0.01mm
Error	0.05mm
Cone and connecting rod weight	100±0.1g
Cone angle	30°±0.2°
Sample cup	Internal dia. 50×40mm
Power supply	220V, 50HZ
Dimensions	410×330×230mm
Weight	4.7kg



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