



TINENG

# 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 / UNI 10014 / NF P94-051**

### 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
- ⊙ Spatula

Each item can be ordered individually



## LIQUID LIMIT DEVICE

**STANDARD: ASTM D4318/BS1377:2**

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

22-T0030/E Liquid limit device, BS 1377:2 version

22-T0030/F Liquid limit device, ASTM D4318, AASHTO T89, UNE 7377, UNI 10014, version

22-T0031/E Motorized liquid limit device, 230 V, 50 Hz, 1 ph

Grooving tools need to be ordered separately.

### GROOVING TOOLS

Model and standards	For liquid limit device
22-T0032/P BS (Plastic, pack of 10)	22-T0030/E 22-T0031/E
22-T0032/AP ASTM/AASHTO/UNE (Plastic, pack of 10)	22-T0030/F
22-T0033 UNI	22-T0031/E 22-T0030/F



22-T0030/F



22-T0031/E AND 22-T0033

22-T0032AP

## 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 automatic measurement can be performed.

Max. measuring range	40mm
Resolution	0.01mm
Nonlinear error	0.05mm
Cone weight	76g±0.1g; 100g±0.1g
Cone angle	30°±0.2°
Sample cup	Internal dia. 50 x 40mm
Working voltage	200V±10% 50HZ
Dimension	300x230x420mm
Weight	5.3kg



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