

Methods of testing soils for engineering purposes**Method 3.9.1: Soil classification tests—
Determination of the cone liquid limit of a soil**

This Standard incorporates Amendment No. 1 (April 2003). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

METHOD

1 SCOPE

This Standard sets out a method for the determination of the cone liquid limit of a soil using a cone penetrometer. The definition of liquid limit inherent in this Method is not the same as that in the method using the Casagrande apparatus (AS 1289.3.1.1) although the values can be numerically similar (see Note 1).

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

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| 1152 | Test sieves |
| 1289 | Methods of testing soils for engineering purposes |
| 1289.1.1 | Method 1.1: General and sample preparation—Preparation of disturbed soil samples for testing |
| 1289.2.1.1 | Method 2.1.1: Soil moisture content tests—Determination of the moisture content of a soil—Oven drying method (standard method) |
| 1289.3.1.1 | Method 3.1.1: Soil classification tests—Determination of the liquid limit of a soil—Oven drying method (standard method) |

BS

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| 1377 | Methods of test for soils for civil engineering purposes |
| 2000 | Methods of test for petroleum and its products |
| 2000.49 | Part 49: Penetration of bituminous materials |

3 APPARATUS

The following apparatus is required:

- (a) Enamel, glass or plastic bowls of about 150 mm diameter, with suitable close fitting covers.
- (b) A flat glass plate about 10 mm thick and approximately 450 mm square (optional).
- (c) Two palette knives each having a blade approximately 200 mm long and 30 mm wide, or other convenient size.