AS 1289.3.8.2—2008
Reconfirmed 2016

Australian Standard®

Methods of testing soils for engineering purposes

Method 3.8.2: Soil classification tests—Dispersion—Determination of the percent dispersion of a soil

1 SCOPE

This Standard sets out a method for the determination of the percent dispersion of a soil at the 0.005 mm particle dimension.

The method is used in conjunction with AS 1289.3.6.3. It is therefore necessary in addition to this test, to perform a normal hydrometer fine analysis as described in AS 1289.3.6.3.

NOTE: This method may also be known as the SCS test (U.S. Soil Conservation Service) or double hydrometer test.

2 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS		
1152	Specification for test sieves	
1289	Methods of testing soils for engineering purposes	
1289.0	Method 0:	General requirements and list of methods
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)
1289.3.6.3	Method 3.6.3:	Soil classification tests—Determination of the particle size distribution of a soil—Standard method of fine analysis using a hydrometer

3 APPARATUS

The following apparatus shall be used:

(a) A hydrometer as specified in AS 1289.3.6.3.

(b) Two hydrometer cylinders, 1 L capacity parallel-sided glass measuring cylinders, about 60 mm internal diameter and 450 mm high marked at 1 L volume, and fitted with rubber stoppers.

(c) A thermometer to cover the range of 0°C to 50°C, graduated to 0.5°C with an uncertainty not exceeding 0.5°C.

(d) Sieve, 2.36 mm aperture complying with AS 1152.

(e) A balance with a limit of performance not exceeding ±0.05 g.

(f) A stopclock or stopwatch graduated in seconds.

(g) An oven as specified in AS 1289.0.