Australian Standard™

Method of testing soils for engineering purposes

Method 3.6.3: Soil classification tests—Determination of the particle size distribution of a soil—Standard method of fine analysis using a hydrometer

1 SCOPE

This Standard sets out a method for the quantitative determination of the particle size distribution in a soil from a coarse sand size down, using a hydrometer for particles finer than the 75 μm sieve (see Note 1). The method as described is not applicable if less than 10% of the material passes the 75 μm sieve as measured in AS 1289.3.6.1. If used in combination with AS 1289.3.6.2 this Method covers the determination of particles finer than the 75 μm sieve.

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	Part 0:	General requirements and list of methods
1289.1	Method 1:	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)
1289.3.5.1	Method 3.5.1	Soil classification tests—Determination of the soil particle density of a soil—Standard Method
1289.3.6.1	Method 3.6.1:	Soil classification tests—Determination of the particle size distribution of a soil—Standard method of analysis by sieving
1289.3.6.2	Method 3.6.2:	Soil classification tests—Determination of the particle size distribution of a soil—Analysis by sieving in combination with hydrometer analysis (subsidiary method)
1289.4.1.1	Method 4.1.1:	Soil chemical tests—Determination of the organic matter content of a soil—Normal method
2026	Laboratory glassware—Density hydrometers	

BS

1377	Methods of test for soils for civil engineering purposes

ASTM

D422	Standard Test Method for Particle-size Analysis of Soils
E100	Standard Specification for ASTM Hydrometers