Australian Standard®

Methods of testing soils for engineering purposes

Method 5.6.1: Soil compaction and density tests—Compaction control test—Density index method for a cohesionless material

1 SCOPE This method sets out a procedure for calculating the density index of a cohesionless material using the field dry density and laboratory minimum and maximum dry densities of the same material.

2 REFERENCED DOCUMENTS The following documents are referred to in this Standard:

AS

1289	Methods of testing soils for engineering purposes
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)
1289.2.1.2	Method 2.1.2: Soil moisture content tests—Determination of the moisture content of a soil—Sand bath method (subsidiary method)
1289.2.1.4	Method 2.1.4: Soil moisture content tests—Determination of the moisture content of a soil—Microwave-oven drying method (subsidiary method)
1289.2.1.5	Method 2.1.5: Soil moisture content tests—Determination of the moisture content of a soil—Infrared lights method (subsidiary method)
1289.2.1.6	Method 2.1.6: Soil moisture content tests—Determination of the moisture content of a soil—Hotplate drying method (subsidiary method)
1289.2.3.1	Method 2.3.1: Soil moisture content tests—Establishment of correlation—Subsidiary method and the standard method
1289.5.3.1	Method 5.3.1: Soil compaction and density tests—Determination of the field density of a soil—Sand replacement method using a sand-cone pouring apparatus
1289.5.3.2	Method 5.3.2: Soil compaction and density tests—Determination of the field dry density of a soil—Sand replacement method using a sand pouring can with or without a volume displacer
1289.5.5.1	Method 5.5.1: Soil compaction and density tests—Determination of minimum and maximum dry density of a cohesionless material—Standard method
1289.5.8.1	Method 5.8.1: Soil compaction and density tests—Determination of field density and field moisture content of a soil using a nuclear surface moisture-density gauge—Direct transmission mode

3 PROCEDURE The procedure shall be as follows:

(a) Determine the field wet density of the soil (ϱ) by the method described in AS 1289.5.3.1, AS 1289.5.3.2 or AS 1289.5.8.1, as appropriate.

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