

ISO 17892-4:2016-11 (E)

Geotechnical investigation and testing - Laboratory testing of soil - Part 4: Determination of particle size distribution

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Apparatus	2
4.1	General	2
4.2	Sieving method	3
4.3	Hydrometer method	4
4.4	Pipette method	4
4.5	Reagents	6
5	Test procedure	6
5.1	Selection of test method	6
5.2	Sieving method	7
5.2.1	General	7
5.2.2	Specimen preparation	9
5.2.3	Test execution	10
5.3	Hydrometer method	12
5.3.1	General	12
5.3.2	Specimen preparation	14
5.3.3	Test execution	15
5.4	Pipette method	15
5.4.1	General	15
5.4.2	Specimen preparation	16
5.4.3	Test execution	16
5.5	Combined tests	16
6	Test results	18
6.1	Sieving	18
6.1.1	Fraction passing each sieve	18
6.2	Hydrometer	18
6.2.1	Total dry mass	18
6.2.2	Fraction passing each sieve	19
6.2.3	True hydrometer reading	19
6.2.4	Effective depth	19
6.2.5	Equivalent particle diameter	19
6.2.6	Modified hydrometer reading	20
6.2.7	Fraction smaller than equivalent particle diameter	20
6.2.8	Correction for material larger than 2 mm	21
6.3	Pipette	21
6.3.1	Total dry mass	21
6.3.2	Fraction passing each sieve	21
6.3.3	Equivalent particle diameter	21
6.3.4	Fraction smaller than equivalent particle diameter	22
6.3.5	Correction for material larger than 2 mm	22

7	Test report	22
	Annex A (normative) Calibration, maintenance and checks	24
	Annex B (informative) Pre-treatment of samples	30
	Bibliography	31