

DIN EN ISO 14688-1:2018-05 (E)

Geotechnical investigation and testing - Identification and classification of soil - Part 1: Identification and description (ISO 14688-1:2017)

Contents		Page
European foreword		3
Foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	6
4	General	8
5	Identification of soil	9
5.1	Mineral soil	9
5.1.1	General	9
5.1.2	Composite soils	13
5.1.3	Plasticity	14
5.1.4	Organic content in mineral soils	14
5.2	Organic soils	14
5.3	Carbonate soils	15
5.4	Sulfide soils	15
5.5	Volcanic soils	15
5.6	Loess	15
5.7	Glacial soils	15
5.8	Anthropogenic soil	15
5.9	Origin of deposit	16
5.9.1	General	16
5.9.2	Depositional environment	16
5.9.3	Geological unit	16
6	Description of soil	16
6.1	Description of soil properties	16
6.1.1	Particle size distribution	16
6.1.2	Particle shape	16
6.1.3	Particle strength	17
6.1.4	Mineral composition	17
6.1.5	Fines content	17
6.1.6	Consistency	17
6.1.7	Soil colours	18
6.1.8	Organic content	19
6.1.9	Carbonate content	19
6.1.10	Degree of decomposition of peat	19
6.2	Description of different soil types	20
6.2.1	Volcanic soils	20
6.2.2	Loess	20
6.2.3	Glacial soils	20
6.2.4	Anthropogenic soil	21
7	Description of bedding and discontinuities	21
7.1	Bedding	21
7.2	Discontinuities	22
7.3	Interbedding and mixed soils	22
8	Reporting	22
Annex A (informative) Procedures for identification of the primary fraction in mineral soils		23
Bibliography		27