

Scope Geotechnical Laboratory

Please email your questions about laboratory work to lab@socotec-geotechnics.nl



Classification Tests	Method
Identification soil conform NEN-EN-ISO 14688-1	
Classification soil conform NEN-EN-ISO 14688-2	
Bulk Density (wet and dry)	
Water Content	
Shear Strength	Torvane method
	Penetrometer method
	Fall cone method
Atterberg Limits	Casagrande method
	Fall cone method
Thermal Resistivity	Double-measurement
	Triple-measurement
Organic Matter Content	Ashing + lutumcontent
	Chemical (treatment with hydrogen peroxide)
Calcium Carbonate Content	Ashing
	Chemical (treatment with hydrochloric acid)
Particle Density	Gas Pycnometer (Helium)
	Vloeistof Pycnometer (Spiritus)
Particle size distribution 63 µm - 2 mm	Wet and/or dry sieving, including mineralisation
	Wet and/or dry sieving, excluding mineralisatie
Particle size distribution < 63 µm	Hydrometer test
	Pipet Method
Permeability tests	Derived from particle size distribution
	Constant head
	Falling head
	Constand head in triaxiaal cell
Compaction test	1-point method, 2,5 kg rammer
	5-point method, 2,5 kg rammer
Determination in-situ bulk denisty	
Min en max compaction	Mini-rammer
Peat classification	Botanical
Salt content per liter grondwater	
pH-determination	
Determination of erosion resistance of clay	RAW
Sandtest for constructionworks	RAW

Advanced Tests	Method
Oedometer consolidation test	5-stage
	7-stage
	9-stage
	10-stage
Constant Rate of Strain consolidation test	
Triaxial test	UU
	CD isotropic
	CU isotropic
	CD anisotropic
	CU anisotropic
	Extension
Direct Simple Shear test	

