

Accreditation Scope

National Laboratory For Soil and Building Materials, NAL 107

Testing Laboratory, (ISO/IEC 17025:2017)

Mussafah Industrial Area, Abu Dhabi, UAE

Issue Date: 05-01-2021

Expiry Date: 20-11-2022

Issue No: 04

Testing Field	Materials / Products tested	Type of test / Test parameter / Properties measured / Range of measurement	Test Method (Standard, Internal Procedure, Technique)	Permanent lab (P) / Client-site (S)
Geotechnical Investigations	Soil In - Situ Testing	Methods of test for soils for civil engineering purposes Part 9: In-situ tests In Situ penetration test- Determination of the penetration resistance using the split-barrel sampler (the standard penetration test SPT)	BS 1377-9:1990, Cl. 3.3	S
Geotechnical	Soil Sampling & Description	Code of practice for Ground Investigations Obtaining disturbed samples from boring tools & excavating equipment	BS 5930:2015; Section 4, Cl.: 25.3	S
		Soil Sampling - Open-tube sampling techniques	BS 5930:2015; Section 4, Cl.: 25.4	S
		Description of Soils	BS 5930:2015; Section 6, Cl.: 33	P/S
	Rock Sampling & Description	Code of practice for Ground Investigations Rock Sampling Rotary core samples	BS 5930:2015; Section 4, Cl.: 25.7	S
		Description and Classification of Rocks Rock Core Recovery	BS 5930:2015; Section 6, Cl.: 36	P / S
	Ground Water Management	Code of practice for ground investigations Ground water monitoring Ground Water sampling	BS 5930:2015: Section 4, Cl.: 26	S
		Groundwater measurements	BS 5930:2015; Section 4 Cl. 26.2 & 26.3, Section 8, Cl. 52 (Cl. 52.5 standpipe piezometer)	S

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	Soil	Particle size distribution Wet & Dry sieving	BS 1377-2: 1990, AMD 9027-96, Cl. 9.2 & 9.3 ⁽¹⁾ BS EN ISO 17892-4:2016, CL 5.2	P
		Determination of Water (Moisture)	BS 1377-2: 1990, AMD. 9027-96, Cl. 3.2 ⁽¹⁾ BS EN ISO 17892-1:2014	P
		Sedimentation by the hydrometer method	BS 1377- 2:1990; AMD 9027-96, Cl. 9.5 ⁽¹⁾ BS EN ISO 17892-4:2016, CL 5.3	P
		Liquid limit, plastic limit and plasticity index of soil	BS 1377-2:1990; AMD 9027-96, Cl. 4, Cone penetrometer method Casagrande apparatus method Plastic limit and plasticity index – Cl. 5, BS EN ISO 17892-12:2018, CL 5.3, 5.4,5.5 & 6.5	P
	Rock	Preparation of rock core (Preparing Rock Core as Cylindrical Test Specimens and Verifying Conformance to Dimensional and Shape Tolerances	ASTM D4543-19	P
		Unconfined Compressive Strength of Rock Core Specimen	ASTM D7012-2014 e1, Method C	P
		Determination of Water (Moisture) Content of Soil and Rock by Mass	ASTM D2216-2019	P

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Chemical	Soil	Acid Soluble Sulphate Content of Soil	BS 1377-3:2018, Cl. 7.9 /7.6	P
		Water Soluble Sulphate Content of Soil	BS 1377-3:2018, Cl. 7.3 /7.6	P
		Acid Soluble Chloride Content of Soil	BS 1377-3:2018, Cl. 9.3	P
		Water Soluble Chloride Content of Soil	BS 1377-3:2018, Cl. 9.2	P
		pH of Soil, (0 to14) pH Units	BS 1377-3:2018, Cl. 12	P
	Ground Water	pH of Ground Water, (0 to14) pH Units	BS 1377-3:2018, Cl. 12	P
		Sulphate Content of Ground Water	BS 1377-3:2018, Cl. 7.8,7.3.4.4 & 7.6	P
		Chloride Content of Ground Water	BS 1377-3:2018, Cl. 9.2	P
Report	Reporting	Code of practice for ground investigations - Reporting	BS 5930:2015; Section 10, Cl. 63	P
Physical	Soil	In Situ Density (Sand Replacement Method Suitable for Fine, Medium and Coarse Grained Soils, Large And Small Pouring Cylinder),	BS 1377:1990: Part 9 Cl.2.2 AMD 8264-1995	S
		Determination of dry density/ moisture content relationship using 4.5 kg rammer for coarse and medium gravel size particles)	BS 1377:1990: Part 4 Cl. 3.5 & 3.6 AMD 13925-2002 & 8259-1995	P

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Physical	Concrete	Testing hardened concrete. Shape, dimensions and other requirements for specimens and molds	BS EN 12390-1: 2012	P
		Testing hardened concrete. Making and curing specimens for strength tests	BS EN 12390-2:2019	P
		Compressive Strength of Concrete Cube	BS EN 12390-3: 2019	P
		Testing hardened concrete. Density of hardened concrete	BS EN 12390-7:2019	P
		Testing concrete Part 111: Method of normal curing of test specimens (20°C method)	BS 1881 Part 111 AMD. 9387:1997 ⁽¹⁾	P
		Testing concrete Part 114: Methods for determination of density of hardened concrete	BS 1881 Part 114 AMD 6721:1989 ⁽¹⁾	P
		Testing concrete Part 116: Method for determination of compressive strength of concrete cubes	BS 1881 Part 116 AMD. 6720:1991 ⁽¹⁾	P
END				

(1) This standard is superseded & Withdrawn