

Accreditation Scope

Arab Geotech for Soil Investigation LLC, NAL 083
Testing Laboratory, (ISO/IEC 17025:2017)

Industrial Mussafah M46, Abu Dhabi, UAE

Issue Date: 08-04-2021

Expiry Date: 07-04-2024

Issue No: 05

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	Soil	Standard Penetration Test	* BS 1377-9:1990; Cl 3.3	S
		Soil Sampling	BS 5930:2015; Section 4 Cl. 25	
	Water	Ground water level management	BS 5930:2015; Section 8 Cl. 52.2, 52.3 & 52.10 Stand Pipe Piezometer Cl. 52.5	S
		Ground water sampling	BS 5930:2015; Section 4 Cl. 26.4	
	Soil & Rock	Soil & Rock description	BS 5930:2015; Section 6 Cl. 33 & 36	P / S
		Classification of Soils	ASTM D2487-17 ^{e1}	
		Determination of water (moisture) content of soil and rock by mass	ASTM D 2216-19	P
	Soil	Particle size distribution	* ASTM D 422-63 (2007)	P
		Liquid limit, Plastic limit and plasticity index of Soils	* BS 1377-2:1990; AMD 9027-1996, Cl. 4.5 Casagrande Method, Cl. 5.3 & 5.4	
		Hydrometer Analysis	* BS 1377-2:1990; Cl. 9.5 AMD 9027-1996	
		Hydrometer analysis	BS EN ISO 17892-4:2016 - Cl. 4.2, 5.3 & 6.2	

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Geotechnical	Rock	Rock quality designation	BS 5930:2015; Section 6 Cl. 36	P / S
		Core Recovery	BS 5930:2015; Section 6 Cl. 36	
		Preparation of rock core	ASTM D 4543-19	P
		Unconfined Compression Strength	ASTM D7012-14e1	
Report	Ground Investigation	Code of practice for ground investigations - Reporting	BS 5930:2015; Section 10, Cl. 63	P
Chemical	Soil	Acid soluble sulphate content of soil	BS 1377-3:2018; Cl. 7.2, 7.9, 7.6	P
		Water soluble sulphate content of soil	BS 1377-3:2018; Cl. 7.2, 7.3, 7.6	
		Acid soluble chloride content of soil	BS 1377-3:2018; Cl. 9.3	
		Water soluble chloride content of soil	BS 1377-3:2018; Cl. 9.2	
		pH of soil	BS 1377-3:2018; Cl. 12	
		Water Soluble Salts of soil	BS 1377-3:2018; Cl. 11 & Earth Manual (Des. 8)	
	Water	pH of ground water	BS 1377-3:2018; Cl. 12	P
		Sulphate content of ground water	BS 1377-3:2018; Cl. 7.2, 7.8, 7.6	
		Chloride content of ground water	BS 1377-3:2018; Cl. 9.2	
		Total Dissolved Solids of water	BS 1377-3:2018; Cl. 11	

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Chemical	Hardened concrete	Sulphate Content of hardened concrete	BS 1881-124: 2015; Cl. 12.2	P
		Chloride content of hardened concrete	BS 1881-124: 2015; Cl. 12.1	
Physical	Soil	In-situ Density by Sand Replacement Method (Large Pouring Cylinder)	ASTM D 1556/D 1556-15e1 BS 1377-9:1990 AMD-8264- 1995; Cl. 2.2	S
	Hardened Concrete	Shape, dimensions and other requirements for specimens and molds	BS EN 12390-1:2012	P
		Making and curing specimens for strength tests	BS EN 12390-2:2019	
		Compressive strength of test specimens	BS EN 12390-3:2019	
		Density of hardened concrete	BS EN 12390-7:2019	
		Precast concrete paving blocks Measurement of dimension and plan area	BS 6717-1:1993 Annex A	
Precast concrete paving blocks Determination of compressive strength	BS 6717-1:1993 Annex B			

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Physical	Hardened Concrete	Precast concrete masonry units Measurement of dimension	BS 6073-1 :1983 Appendix A (AMD 4462-84)	P
		Precast concrete masonry units Compressive strength	BS 6073-2:1983 Appendix B (AMD 4508-84)	
		Water Absorption of Concrete	BS 1881-122:2011	
		Water Permeability of Concrete	* DIN 1048-5:1991	
	Aggregate	Determination of particle shape. Flakiness index	BS EN 933-3:2012	P
		Flakiness Index	* BS 812-105.1:1989	
		Elongation Index	* BS 812-105.2:1990	
		Particle Size Distribution (PSD)	BS EN 933-1-2012	
		Relative Density (Specific Gravity) and Absorption of Fine Aggregates	ASTM C128-15	
		Density, Relative Density (Specific Gravity) and Absorption of Coarse Aggregates	ASTM C 127-15	

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Physical	Soil	Dry Density - Moisture Content Relationship using 4.5 kg Rammer	BS 1377-4:1990; AMD. 13925:2002 Cl. 3.5 & 3.6	P
		Determination of Moisture Content	BS 1377-2:1900; Amd. 9027-1996, Cl. 3.2	
		Laboratory Compaction Characteristics of Soil Using Modified Efforts	ASTM D1557-12e1	
		Determination of California Bearing Ratio (CBR)	BS 1377-4:1990; Cl. 7	
		California Ratio (CBR) of Laboratory Compacted Soils	ASTM D1883-16	
END				

* Standards are superseded / withdrawn.