



Accreditation Scope

Geoscience Testing Laboratories L.L.C, NAL 018
Testing Lab, Mussafah Industrial, Abu Dhabi, UAE

#	Test Material / Matrix	Description of the Test	Tested Method/Standard
Microbiological Testing			
1	Food	Aerobic plate count	BAM Chapter 3
		Enumeration of Enterobacteriaceae	CCFRA 2.3.1 : 2007
		Enumeration of yeast and moulds	CCFRA 2.1.1 :2007
		Enumeration of coliforms by colony count method	CCFRA 2.2.1 :2007
		Coliforms by MPN Method	CMMEF 8.7.1
		Fecal Coliforms by MPN Method	CMMEF 8.81
		E.coli by MPN Method	CMMEF 8.91
		Enumeration of Coagulase Positive Staphylococcus aureus	CCFRA 3.5.1: 2007
		Detection of Salmonella spp; Cultural Method	CCFRA 3.1.2: 2007
		Enumeration of Bacillus cereus	BAM Chapter 14
Enumeration of Clostridium perfringens	CCFRA 3.6.1: 2007		
Detection of E. coli O157: H7	AOAC 2000. 14 (Reveal Microbial screening test by Neogen corporation)		
Detection of Listeria spp.	Reveal Microbial Screening Test Listeria test system, Neogen corporation - Kit 041101, AOAC.		



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2	Water	Heterotrophic Plate Count	APHA/AWWA 9215B : 22 nd Ed 2012
		Total Coliforms	APHA/AWWA 9222B : 22 nd Ed 2012
		Fecal coliforms	APHA/AWWA 9222B & 9222G: 22 nd Ed 2012
		Escherichia coli	APHA/AWWA 9222B & 9222G: 22 nd Ed 2012
		Pseudomonas Aeruginosa	NSM W6 Issue No.3 :2007
		Fecal sterptococci	APHA/AWWA 9230C : 22 nd Ed 2012
Chemical & Physical Testing			
3	Soil	Determination of In-situ Density by Sand Replacement Method	BS 1377 Part 9 : 1990
		Determination of Dry Density Moisture Content Relationship	BS 1377 Part 4 : 1990
		Determination of Particle Size Distribution	BS 1377 Part 2 : 1990
		Determination of California Bearing Ratio	BS 1377 Part 4 : 1990 ASTM D 1883 : 2007
		Determination of Liquid Limit	BS 1377 Part 2 : 1990
		Determination of Plastic Limit and Plasticity Index	BS 1377 Part 2 : 1990
		Determination of Moisture Condition Value	BS 1377 Part 4 : 1990

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Chemical & Physical Testing			
4	Aggregate	Determination of Particle Size Distribution (Wet / Dry)	BS 812 Part 103 : 1985
		Determination of Flakiness Index of Aggregates	BS 812 Part 105.1 : 1989
		Determination of Elongation Index of Aggregates	BS 812 Part 105.2 : 1990
		Determination of Shell Content in Course Aggregates	BS 812 Part 106 : 1985
		Determination of Crushing Value	BS 812 Part 110 : 1990
		Determination of Ten Percent Fines Value	BS 812 Part 111 : 1990
		Determination of Soundness of Aggregates by use of Sodium Sulphate and Magnesium Sulphate	ASTM C88 : 2005
		Materials Finer Than 75µm Sieve in Mineral Aggregates by Washing	ASTM C 117 : 2004
		Specific Gravity and Water Absorption of Coarse Aggregates	ASTM C 127 : 2012
		Specific Gravity and Water Absorption of Fine Aggregates	ASTM C 128 : 2012
		Sieve Analysis of Fine and Coarse Aggregates	ASTM C 136 : 2006
		Determination of Clay Lumps & Friable Particles	ASTM C 142 : 2010
		Determination of Sand Equivalent Value	ASTM D 2419 : 2011
		Determination of Aggregates Impact Value	BS 812 Part 112 : 1990



United Arab Emirates

هيئة الإمارات للمواصفات والمقاييس
Emirates Authority For Standardization & Metrology



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#	Test Material / Matrix	Description of the Test	Tested Method/Standard
Chemical & Physical Testing			
5	Concrete	Determination of Compressive Strength of Cubes Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration Determination of Depth of Penetration of Water Under Pressure Determination of Water Permeability Determination of Water Absorption of Hardened Concrete Determination of the Initial Surface Water Absorption of Concrete	BS 1881 Part 116 : 1983 ASTM C 1202 : 2012 BS EN 12390 Part 8 : 2009 DIN 1048 Part 5 : 1991 BS 1881 Part 122 : 2011 BS 1881 Part 208 : 1996
6	Steel Rebar	Tensile Strength (for measurement range of 1000 KN)	BS 4449 : 1988 BS 4449 : 1997 BS 4449 : 2005+A2: 2009 BS EN 10002: 2001 BS EN ISO 6892-1: 2009





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#	Test Material / Matrix	Description of the Test	Tested Method/Standard
Chemical Testing			
7	Construction Material	Determination of Chloride Content of Aggregates Using a Nitric Acid Extract for Aggregates Containing Chloride not Extracted by Water	BS 812 Part 117 : 1988
		Organic Impurities in Fine Aggregates for Concrete	ASTM C40/C40M : 2011
		Total Sulphate by Acid Extraction Method	BS 812 Part 118 : 1988
		Determination of Chloride Content in Hardened Concrete	BS 1881 Part 124 : 1988
		Determination of Chloride Content in Ground Water	BS 1377 Part 3 : 1990
		Determination of pH of Ground Water	BS 1377 Part 3 : 1990
		Determination of Sulphate Content in Ground Water	BS 1377 Part 3 : 1990
		Determination of Chloride Content of Soil (Acid & Water Soluble)	BS 1377 Part 3 : 1990
		Determination of Sulphate Content of Soil (Acid & Water Soluble)	BS 1377 Part 3 : 1990
		Determination of pH in Soil	BS 1377 Part 3 : 1990
		Organic Matter Content for Soil	BS 1377 Part 3 : 1990
END			

