





## **ACCREDITATION CERTIFICATE**

#### LB-TEST-002

#### **E**mirates International **A**ccreditation **C**entre

has accredited

#### AL FUTTAIM ELEMENT MATERIALS TECHNOLOGY DUBAI LLC

Plot 598-221 | Dubai Investment Park |, Jebel Ali

Dubai | United Arab Emirates

In accordance with the requirements of

ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories

to undertake the tests in the attached accreditation scope

This Accreditation is invalid without the attached accreditation scope and shall remain in force within the validity period printed below, subject to continuing compliance with the requirements of the accreditation criteria.

Validity: 13-02-2024 to 12-02-2026

Initial Accreditation Date: 13-02-2005

Type text here





#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC Plot 598-221 | Dubai Investment Park |, Jebel Ali

## **Dubai | United Arab Emirates**

Date: 13-02-2024

Accreditation History		
Issue no.	Details	Date

#### **Construction Materials Testing**

16	Renewal of the accreditation and changes in some test	13-02-2024
	methods	
15	Certificate validity was extended for 6 months from 22-10-	22-10-2023
	2023 up to 21-04-2024	
14	Certificate validity was extended for 6 months from 22-04-	22-04-2023
	2023 up to 21-10-2023	
13	Extension inscope	08-11-2022
12	Renewal of accreditation and reduction in scope	16-09-2020
11	Extension in scope (adding 2 tests under Hardened	10/04/2019
	Concrete)	
10	First issuance under the name of EIAC (which was formerly	01/10/2018
	known as DAC)	



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# Al Futtaim Element Materials Technology Dubai LLC Plot 598-221 | Dubai Investment Park |, Jebel Ali

## **Dubai | United Arab Emirates**

Date: 13-02-2024

Accreditation History		
Issue no.	Details	Date

#### **Air Quality Monitoring Testing**

09	Renewal of the accreditation and changes in some test	13-02-2024
	methods	
08	Certificate validity was extended for 6 months from 22-10-	22-10-2023
	2023 up to 21-04-2024	
07	Certificate validity was extended for 6 months from 22-04-	22-04-2023
	2023 up to 21-10-2023	
06	Extension in scope	08-11-2022
05	Renewal of accreditation	16/09/2020
04	Reduction in the scope by removing sampling	10/04/2019
03	First issuance under the name of EIAC (which formally was	01/10/2018
	known as DAC)	



## Accreditation Scope LB-TEST-002

## Al Futtaim Element Materials Technology Dubai LLC

## Plot 598-221 | Dubai Investment Park |, Jebel Ali

## **Dubai | United Arab Emirates**

Date: 13-02-2024

Accreditation History		
Issue no.	Details	Date

#### **Environmental Testing**

16	Renewal of the accreditation and voluntary reduction in	13-02-2024
	scope (Remove some Microbiological tests )	
15	Certificate validity was extended for 6 months from 22-10-	22-10-2023
	2023 up to 21-04-2024	
14	Certificate validity was extended for 6 months from 22-04-	22-04-2023
	2023 up to 21-10-2023	
13	Extension in scope	08-11-2022
12	Renewal of accreditation, extension in scope (add Total	16-09-2020
	Dissolved Solids BS 1377 Part 3) and voluntary reduction	
	(remove Enterobacteriacaea test)	
11	Extension in scope	05-04-2020
10	Extension in scope	10-04-2019



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# Al Futtaim Element Materials Technology Dubai LLC Plot 598-221 | Dubai Investment Park |, Jebel Ali Dubai | United Arab Emirates

Date: 13-02-2024

Accreditation History		
Issue no.	Details	Date

#### **Metallurgy Testing**

07	Renewal of the accreditation	13-02-2024
06	Certificate validity was extended for 6 months from 22-10-2023 up to 21-04-2024	22-10-2023
05	Certificate validity was extended for 6 months from 22-04-2023 up to 21-10-2023	22-04-2023
04	Extension in scope and slight changes in some Test methods	08-11-2022
03	Renewal of accreditation	16/09/2020
02	First issuance under the name of EIAC (Which was formerly known as DAC)	01/10/2018



## Accreditation Scope LB-TEST-002

## Al Futtaim Element Materials Technology Dubai LLC

## Plot 598-221 | Dubai Investment Park |, Jebel Ali

## **Dubai | United Arab Emirates**

Date: 13-02-2024

Accreditation History		
Issue no.	Details	Date

#### **Food Testing**

12	Renewal of the accreditation and voluntary reduction in scope (Remove some Microbiological tests )	13-02-2024
11	Certificate validity was extended for 6 months from 22-10-2023 up to 21-04-2024	22-10-2023
10	Certificate validity was extended for 6 months from 22-04-2023 up to 21-10-2023	22-04-2023
09	Voluntary reduction and extention in scope	21-03-2022
08	Reduction in scope (remove CCFRA manual reference for microbiology and chemistry food testing)	21-03-2022
07	Renewal of accreditation and voluntary reduction (Remove Pseudomonas species& Pseudomonas Aeruginosa)	16-09-2020
06	Extension in scope	05-04-2020
05	First issuance under the name of EIAC (Which was formerly known as DAC)	1-10-2018



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# Al Futtaim Element Materials Technology Dubai LLC Plot 598-221 | Dubai Investment Park |, Jebel Ali Dubai | United Arab Emirates

Date: 13-02-2024

Accreditation History		
Issue no.	Details	Date

#### **Construction Materials-Green Building Testing**

05	Renewal of the accreditation	13-02-2024
04	Certificate validity was extended for 6 months from 22-10-2023 up to 21-04-2024	22-10-2023
03	Certificate validity was extended for 6 months from 22-04-2023 up to 21-10-2023	22-04-2023
02	Renewal of accreditation and reduction in scope (remove test: Determination of water content in Paint)	16/09/2020
01	Granted accreditation from EIAC	05/04/2020



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## Al Futtaim Element Materials Technology Dubai LLC

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## **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	soils for civil engineering purposes - Classification tests	BS 1377 Part 2 Clause 10  BS EN 17892 Part 4 Clause 5.2



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## Al Futtaim Element Materials Technology Dubai LLC

## Plot 598-221 | Dubai Investment Park |, Jebel Ali

## **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Methods of test for soils	BS 1377 Part 2
		for civil engineering	Clause 11.5 & Clause
	~ 0	purposes	11.6
		Part 2: Classification tests	
		and determination of	
		geotechnical properties	
	36.7	Caluse 11.5: Compaction	
		method using 4.5 kg	
		rammer with 1 L mould 25	
		Figure 7 — 4.5 kg rammer	
		for compaction test	
		Caluse 11.6: Method using	
		4.5 kg rammer with CBR	
		mould	



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## Al Futtaim Element Materials Technology Dubai LLC

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## **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Methods of test for soils	BS 1377 Part 2
		for civil engineering	Clause 15
	~0	purposes	
		Part 2: Classification	
	.0`	tests and determination	
		of geotechnical	
		properties	
		Calause 15:	
	.0	Determination of	
		California Bearing Ratio	
		(CBR)	



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## **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Methods for test for soils	BS 1377 Part 9 Clause
		for civil engineering	2.2
		purposes. In-situ tests	
		(Sand replacement	
	.0`	method suitable for fine,	
		medium and coarse	
		grained soils (large	
		pouring cylinder	
		method))	
Mechanical/ Physical	Soil	Standard Test Method	ASTM D422
		for Particle-Size Analysis	
		of Soils	



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Type of Activity	Test  Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Methods of test for soils	BS 1377 Part 2
		for civil engineering	Clause 11.3 & Clause
		purposes	11.4
		Part 2: Classification	
	.0`	tests and determination	
		of geotechnical	
		properties	
		Clause 11.3: v	
	.0	Clause 11.4: Compaction	
		method using 2.5 kg	
		rammer with CBR mould	
Mechanical/ Physical	Soil	Standard Methods for	ASTM D4318
		Liquid Limit, Plastic Limit,	
		and Plasticity Index of	
		Soils	



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Type of Activity	Test  Materials/Products	Test Name	Test Method
Mechanical/ Physical	Soil	Methods of test for soils for civil engineering purposes Part 2: Classification tests and determination of geotechnical properties Clause 5: Determination of liquid limit.	12+A1:2021 Clause 5.3 & 5.4
Mechanical/ Physical	Soil	Methods of test for soils for civil engineering purposes Part 2: Classification tests and determination of geotechnical properties Clause 6: Determination of plastic limit and plasticity index	BS 1377-2 Clause 6 ISO 17892-12+A1:2021 Clause 5.5 & Clause 6.5



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## **Dubai | United Arab Emirates**

Type of Activity	Test	Test Name	Test Method
	Materials/Products	rest ivallie	
Mechanical/ Physical	Soil	Methods of test for soils	BS 1377 Part 2
		for civil engineering	Clause 4.1
		purposes	BS EN 17892 Part
		Part 2: Classification	1+A1:2022
	,O`	tests and determination	
		of geotechnical	
		properties	
		Clause 4: Determination	
	.0	of water content	
Mechanical/ Physical	Hardened Concrete	Testing hardened	BS EN 12390 Part 8
		concrete. Depth of	
		penetration of water	
		under pressure	
Mechanical/ Physical	Hardened Concrete	Testing concrete Method	BS 1881 Part 116
		for determination of	
		compressive strength of	
		concrete cubes	



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Type of Activity	Test	Test Name	Test Method
	Materials/Products	rest Name	rest Method
Mechanical/ Physical	Hardened Concrete	Recommendations for the	BS 1881 Part 208
		determination of the	
		initial surface absorption	
		of concrete	
Mechanical/ Physical	Hardened Concrete	Determination of water	BS 1881 Part 122
		absorption on hardened	
		concrete	
Mechanical/ Physical	Hardened Concrete	Testing concrete	BS 1881 Part 111
		Part 111: Method of	
		normal curing of test	
		specimens (20°C	
		method)	
Mechanical/ Physical	Hardened Concrete	Testing concrete	BS 1881 Part 114
		Part 114: Methods for	
		determination of density	
		of hardened concrete	



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Hardened Concrete	Testing hardened concrete Part 2: Making and curing specimens for strength tests	BS EN 12390 Part 2
Mechanical/ Physical	Hardened Concrete	Standard Practice for Making and Curing Concrete Test Specimens in the Laboratory	ASTM C192 / C192M
Mechanical/ Physical	Hardened Concrete	Testing hardened concrete Part 1: Shape, dimensions and other requirements for specimens and moulds	BS EN 12390 Part 1



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Hardened Concrete	Testing Hardened Concrete Part 3: Compressive strength of test specimens	BS EN 12390 Part 3
Mechanical/ Physical	Hardened Concrete	Testing hardened concrete Part 5: Flexural strength of test specimens	BS EN 12390 Part 5
Mechanical/ Physical	Hardened Concrete	Testing hardened concrete Part 7: Density of hardened concrete	BS EN 12390 Part 7



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Hardened Concrete	Standard Test Method	ASTM C39 / C39M
		for Compressive Strength	
		of Cylindrical Concrete	
		Specimens	
	,0		
Mechanical/ Physical	Hardened Concrete	Testing concrete in	BS EN 12504 Part 1
		structures. Cored	
		specimens	
		Part 1: Taking, examining	
		and testing in	
		compression	
Mechanical/ Physical	Concrete piles	Standard Test Method	ASTM D5882
		for Low Strain Impact	
		Integrity Testing of Deep	
		Foundations	



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Concrete	Standard Test Method for Static Modulus of Elasticity and Poisson's Ratio of Concrete in Compression	ASTM C469/C469M
Mechanical/ Physical	Fresh Concrete	Testing concrete Part 102: Method for determination of slump	BS 1881 Part 102
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete Part 2: Slump test	BS EN 12350 Part 2
Mechanical/ Physical	Fresh Concrete	Testing concrete Part 106: Methods for determination of air content of fresh concrete	BS 1881-106:1983



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Type of Activity	Test	Test Name	Test Method
Type of Activity	Materials/Products	rest ivalle	rest Method
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete	BS EN 12350 Part 7
		Part 7: Air content.	
		Pressure methods	
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete	BS EN 12350 Part 1
	,0	Part 1: Sampling	
Mechanical/ Physical	Fresh Concrete	Standard practice for	ASTM C172
		Sampling of Freshly	
		mixed Concrete	
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete	BS EN 12350 Part 6
2.0		Part 6: Density	
Mechanical/ Physical	Fresh Concrete	Standard Test Method	ASTM C138 / C138M
		for Density (Unit	
		Weight), Yield, and Air	
		Content (Gravimetric) of	
		Concrete	
Mechanical/ Physical	Fresh Concrete	Standard Test Method	ASTM C232 / C232M
Treenamear, Thysical	Trestreonerete	for Bleeding of Concrete	7.51141 C252 / C252141
		To bleeding of Concrete	



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Fresh Concrete	Standard Test Method for Temperature of Freshly Mixed Hydraulic- Cement Concrete	ASTM C1064/ C1064M
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete Part 5: Flow table test	BS EN 12350 Part 5
Mechanical/ Physical	Fresh Concrete	Standard Test Method for Slump Flow of Self- Consolidating Concrete	ASTM C1611 / C1611M
Mechanical/ Physical	Fresh Concrete	Testing fresh concrete Part 4: Degree of compactability	BS EN 12350 Part 4



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Type of Activity	Test	Test Name	Test Method
Type of Activity	Materials/Products	rest Name	rest Method
Mechanical/ Physical	Fresh Concrete	Testing concrete	BS 1881 Part 108
		Part 108: Method for	
		making test cubes from	
		fresh concrete	
Mechanical/ Physical	Aggregate	Testing Aggregates	BS 812 Part 2 Clause
	36.7	Part 2. Methods of	5.3
		determination of density -	
	.0	for aggregates all larger	
		than 10mm	
Mechanical/ Physical	Aggregate	Standard Practice for	ASTM D75/75M
		Sampling Aggregates	
Mechanical/ Physical	Aggregate	Testing aggregate	BS 812 Part 102
		Part 102: Methods for	
		Sampling Tests for	
		general properties of	
		aggregates	



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Type of Activity	Test  Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for general properties of aggregates	BS EN 932 Part 1
	~0	Part 1: Methods for	
		sampling	
	,0		
Mechanical/ Physical	Aggregate	Testing aggregates	BS 812 Part 2 Clause
		Part 2: Methods for	5.4
		determination of density	
		Clause 5.4: Particle	
		density and water	
		absorption of aggregate	
		between 40mm and 5mm	



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Type of Activity	Test	Test Name	Test Method
Type of Activity	Materials/Products	rest Name	rest Method
Mechanical/ Physical	Aggregate	Testing aggregates	BS 812 Part 2 Clause
		Part 2: Methods for	5.5
		determination of density	
		Clause 5.5: Particle	
	,O`	density and water	
		absorption (10mm	
		aggregate & smaller)	
Mechanical/ Physical	Aggregate	Standard Test Method	ASTM C127
		for Density, Relative	
		Density (Specific	
		Gravity), and Absorption	
		of Coarse Aggregate	
Mechanical/ Physical	Aggregate	Standard Test Method	ASTM C128
		for Relative Density	
		(Specific Gravity) and	
		Absorption of Fine	
		Aggregate	



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for geometrical	BS EN 933 Part 1
		properties of aggregates	
		Part 1: Determination of	
		particle size distribution.	
		Sieving method	
Mechanical/ Physical	Aggregate	Tests for mechanical and	BS EN 1097 Part 6
		physical properties of	Clause7
		aggregates	
		Part 6: Determination of	
		particle density and	
		water absorption - wire	
		basket method for	
		aggregate particles	
		passing the 63mm test	
		sieve and retained on the	
		31.5mm test sieve	



#### **Construction Materials Testing**

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- (	Test	. 3	Test Method
Type of Activity	Materials/Products	Test Name	
Mechanical/ Physical	Aggregate	Tests for mechanical and	BS EN 1097 Part 6
		physical properties of	Clause 8
		aggregates	
		Part 6: Determination of	
	,O`	Particle Density and	
		Water Absorption-	
		pyknometer method for	
		aggregate particles	
	.0	passing the 31.5mm test	
		sieve and retained on the	
		4mm test sieve	



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for mechanical and	BS EN 1097 Part 6
		physical properties of	Clause 9
		aggregates	
		Part 6: Determination of	
	.0`	Particle Density and	
		Water Absorption-	
		pyknometer method for	
		aggregate particles	
	.0	passing the 4mm test	
	$\cup$	sieve and retained on the	
	7	0.063mm test sieve	
Mechanical/ Physical	Aggregate	Testing aggregates	BS 812 Part 109
		Part 109: Methods for	
		determination of	
		moisture content (drying	
		oven)	



#### **Construction Materials Testing**

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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Testing aggregates	BS 812 Part 103
		Part 103: Method for	Section 103.1
		determination of particle	
		size distribution	
		Section 103.1 Sieve tests	
Mechanical/ Physical	Aggregate	Standard Test Method	ASTM C136/ C136M
	.0	for Sieve Analysis of Fine	
		and Coarse Aggregates	
Mechanical/ Physical	Aggregate	Standard Test Method	ASTM C117
		for Materials Finer than	
		75-µm (No. 200) Sieve in	
		Mineral Aggregates by	
		Washing	



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Testing Aggregates Part 110: Methods for determination of aggregate crushing value (ACV)	BS 812 Part 110
Mechanical/ Physical	Aggregate	Testing Aggregates Part 111: Determination of ten percent fines value (TFV)	BS 812 Part 111
Mechanical/ Physical	Aggregate	Testing Aggregates Part 112: Methods for determination of aggregate impact value (AIV)	BS 812 Part 112



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for mechanical and	BS EN 1097 Part 5
		physical properties of	
		aggregates Part 5:	
		Determination of the	
	.0`	water content by drying	
		in a ventilated oven	
Mechanical/ Physical	Aggregate	Standard Test Method	ASTM C566
	.0`	for Total Evaporable	
	5	Moisture Content of	
		Aggregate by Drying	
Mechanical/ Physical	Aggregate	Standard Test Method	ASTM D2419
		for Sand Equivalent	
		Value of Soils and Fine	
		Aggregate	



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for geometrical properties of aggregates Part 8: Assessment of fines - sand equivalent test	BS EN 933 Part 8 + A1
Mechanical/ Physical	Aggregate	Tests for geometrical properties of aggregates Part 3: Determination of particle shape - Flakiness index	BS EN 933 Part 3
Mechanical/ Physical	Aggregate	Testing aggregates Part 105: Methods for determination of particle shape Section 105.1 Flakiness index	BS 812 Part 105 Section 105.1



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Type of Activity	Test  Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for geometrical properties of aggregates Part 4: Determination of particle shape - Shape index	BS EN 933 Part 4
Mechanical/ Physical	Aggregate	Testing aggregates Part 105: Methods for determination of particle shape Section 105.2: Elongation index of coarse aggregate	



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Standard Test Method	ASTM D4791
		for Flat Particles,	
		Elongated particles or	
		Flat and Elongated	
	.0`	Particles in Coarse	
		Aggregate	
Mechanical/ Physical	Aggregate	Standard Test Method	ASTM D5821
	.0	for Determining the	
		Percentage of Fractured	
-51		Particles in Coarse	
		Aggregate	



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## **Dubai | United Arab Emirates**

	1		
Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for geometrical	BS EN 933 Part 5
		properties of aggregates	
		Part 5: Determination of	
		percentage of crushed	
	.0`	and broken surfaces in	
		coarse aggregate	
		particles	
Mechanical/ Physical	Aggregate	Testing aggregates	BS 812 Part 106
		Part 106: Method for	
		determination of shell	
		content in coarse	
		aggregate	



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Tests for geometrical properties of aggregates	BS EN 933 Part 7
		Part 7: Determination of shells content -	
		percentage of shells in coarse aggregate	
Mechanical/ Physical	Aggregate	Standard Test Method for Clay Lumps and Friable Particles in Aggregates	ASTM C142/C142M
Mechanical/ Physical	Aggregate	Standard Methods for Resistance to Degradation of Small- Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine	ASTM C131/C131M



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Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Standard Methods for	ASTM C535
		Resistance to	
		Degradation of Large-	
		Size Coarse Aggregate by	
	.0`	Abrasion and Impact in	
		the Los Angeles Machine	
Mechanical/ Physical	Aggregate	Test for mechanical and	BS EN 1097 Part 2
		physical properties of	
		aggregates Part 2:	
		Methods for	
		determination of	
		resistance o	
		fragmentation	



#### **Construction Materials Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Standard Method of Test	AASHTO
		for Uncompacted Void	Designation: T304-11
		Content of Fine	
		Aggregate	
Mechanical/ Physical	Aggregate	Standard Test Methods	ASTM C1252
		for Uncompacted Void	
		Content of Fine	
	.0	Aggregate (as Influenced	
		by Particle Shape,	
		Surface Texture and	
		Grading)	
Mechanical/ Physical	Aggregate	Standard Practice for	ASTM C702/C702M
		Reducing Samples of	
		Aggregate to Testing	
		Size	



#### **Construction Materials Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Aggregate	Test for general properties of aggregates Part 2: Methods for reducing laboratory samples	BS EN 932 Part 2
Mechanical/ Physical	Aggregate	Standard Test Method for Soundness of Aggregates by Use of Sodium Sulfate or Magnesium Sulfate	ASTM C88
Mechanical/ Physical	Aggregate	Tests for thermal and weathering properties of aggregates Part 2: Magnesium Sulfate Test	BS EN 1367 Part 2



#### **Construction Materials Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Block	Measurement of	BS 6073 Part 1 Appendix
		dimension of pre-cast	A
		concrete Masonry Blocks	
Mechanical/ Physical	Block	Determination of	BS 6073 Part 2 Appendix
		Compressive Strength of	В
		pre-cast Masonry Blocks	
Mechanical/ Physical	Block	Precast concrete paving	BS 6717 Part 1 Annex B
		blocks	
		Part 1: Specification for	
		paving blocks-	
		Determination of	
		compressive strength	



#### **Construction Materials Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Mechanical/ Physical	Block	Precast concrete paving	BS 6717 Part 1 Annex A
		blocks	
		Part 1: Specification for	
		paving blocks-	
	.0`	Measurement of	
		dimensions and plan area	
	6		
Chemical	Water	Standard Test Methods	ASTM D1293
		for pH of Water	
2-2	),		



#### **Construction Materials Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

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### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Mixing Water For	Mixing water for	BS EN 1008
	Concrete	concrete. Specification	
		for sampling, testing and	
		assessing the suitability	
	.0`	of water, including water	
		recovered from processes	
		in the concrete industry,	
		as mixing water for	
		concrete.	
Chemical	Mixing Water For	Standard Test Methods	ASTM D512
	Concrete	for Chloride Ion In Water	



#### **Construction Materials Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

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### **Dubai | United Arab Emirates**

Type of Activity	Test	Test Name	Test Method
	Materials/Products	rest Mairie	
Chemical	Concrete	Testing concrete.	BS 1881 Part 124 Clause
		Methods for analysis of	10.2
		hardened concrete	
		(Determination of	
	.0`	Chloride content in	
		hardened concrete)	
Chemical	Concrete	Testing concrete.	BS 1881 Part 124 Clause
Chemical	Concrete		10.3
		Methods for analysis of	10.3
		hardened concrete	
		(Determination of	
		Sulphate content in	
		hardened concrete)	
Chemical	Concrete	Standard Test Method	ASTM C1202
		for Electrical Indication of	
		Concrete's Ability to	
		Resist Chloride Ion	
		Penetration	



#### **Construction Materials Testing**

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### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Concrete	Electrical indication of	AASHTO T 277
		concrete's ability to resist	
		chloride ion penetration	
Chemical	Concrete	Chloride Migration Test	NT Build 492
Chemical	Soil	Methods of test for soils	BS 1377 Part 3 Clause
	.0	for civil engineering	9.3
		purposes	
		Part 3: Chemical and	
		electro-chemical tests	
		Determination of the	
		chloride content- Acid	
		Soluble Chloride Content	
		of Soil	



#### **Construction Materials Testing**

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# **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	Methods of test for soils	BS 1377 Part 3 Clause
		for civil engineering	7.9
		purposes	
		Part 3: Chemical and	
	.0`	electro-chemical tests	
		Determination of the	
		sulphate content of soil-	
		Acid Soluble Sulphate	
		Content of Soil	
Chemical	Soil	Methods of test for soils	BS 1377 Part 3 Clause 6
		for civil engineering	
		purposes. Chemical and	
		electro-chemical testing.	
		Determination of the	
		mass loss on ignition	



#### **Construction Materials Testing**

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# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test	Test Name	Test Method
	Materials/Products	rest Name	rest Method
Chemical	Soil	Methods of test for soils	BS 1377 Part 3 Clause 4
		for civil engineering	
		purposes Part 3:	
		Chemical and electro	
	.0`	chemical tests-	
		Determination of the	
		organic matter content	
		Clause 4: Determination	
	.0	of the organic matter	
		content	
Chemical	Soil	Methods of test for soils	BS 1377 Part 3 Clause 5
		for civil engineering	
		purposes.	
		Part 3: Chemical and	
		electro-chemical testing.	
		Determination of total	
		organic carbon	



#### **Construction Materials Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Chemical	Soil	Methods of test for Soils for civil engineering purposes Part 3: Chemical and electro-chemical tests Clause 6.3: Determination of the carbonate content-Rapid titration method	6.3
Chemical	Soil		BS 1377 Part 3 Clause 9.2



#### **Construction Materials Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	Methods of test for soils	BS 1377-3 Clause 12
		for civil engineering	
		purposes	
		Part 3: Chemical and	
	.0`	electro-chemical tests	
		Determination of the pH	
		value	
Chemical	Soil	Methods of test for soils	BS 1377-3 Clause 13
		for civil engineering	
		purposes	
		Part 3: Chemical and	
		electro-chemical tests	
		Determination of	
		Resistivity- Measurement	
		of resistivity: Wenner	
		probe method	



#### **Construction Materials Testing**

#### LB-TEST-002

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# **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Soil	Metals by ICP MS	EMT-M-OP-CH-DXB- MD112A
Chemical	Aggregate	Tests for chemical properties of aggregates Part 1: Chemical analysis	BS EN 1744 Part 1
Chemical	Aggregate	Tests for chemical properties of aggregates Part 5: Determination of acid soluble chloride salts	BS EN 1744-5
Chemical	Aggregate	Standard Test Method for Organic Impurities in Fine Aggregates for Concrete	ASTM C40/C40M



#### **Construction Materials Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemical	Aggregate	Tests for geometrical properties of aggregates. Assessment of fines. Methylene blue test	BS EN 933 Part 9
Chemical	Preforms	Acetaldehyde	EMT-M-OP-CH-DXB- MD417



### **Air Quality Monitoring Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Stack Emissions	Total Suspended Particulate (TSP), LOQ: 0.0 mg/m <sup>3</sup>	US EPA Method 5
Chemistry	Stack Emissions	Determination of Sulphur Dioxide (SO2) LOQ: 1 mg/m <sup>3</sup>	US EPA 6C
Chemistry	Stack Emissions	Determination of Nitrogen Dioxide (NO2) LOQ: 1 mg/m <sup>3</sup>	US EPA Method 7E
Chemistry	Stack Emissions	Carbon Monoxide LOQ: 1 mg/m <sup>3</sup>	US EPA Method 10
Chemistry	Stack Emissions	Carbon Dioxide LOQ: 1 mg/m <sup>3</sup>	US EPA Method 3A
Chemistry	Stack Emissions	Oxygen LOQ: 1 %	US EPA Method 3A



### **Air Quality Monitoring Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Issue no.: 09 Date: 13-02-2024 Valid to: 12-02-2026

Type of Activity	Test  Materials/Products	Test Name	Test Method
Chemistry	Stack Emissions	Volatile Organic Compounds (VOC's) LOQ: 1 mg/m <sup>3</sup>	US EPA Method 25A
Chemistry	Stack Emissions	PAHs LOQ: 1 ug/m <sup>3</sup>	ISO 11338 part 1
Chemistry	Stack Emissions	Dioxins, Furans and PCB's LOQ: 1 ng/m <sup>3</sup>	USEPA Method 23 EN 1948 part 1
Chemistry	Stack Emissions	Heavy Metals As, Bo, Cd, Co, Cr, Cr(VI), Cu, Fe, Hg, K, Mg, Mn, Na, Ni, Pb, Mo, Se, V, Zn LOQ: 0.001 mg/m <sup>3</sup>	USEPA Method M29 EN 14385
Chemistry	Stack Emissions	Hydrogen Chloride LOQ: 0.01 mg/m <sup>3</sup>	USEPA Method 26 EN 1191

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### **Air Quality Monitoring Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Stack Emissions	Hydrogen Flouride LOQ: 0.01 mg/m <sup>3</sup>	USEPA Method 13B & 26
Chemistry	Stack Emissions	Hydrogen Sulphide LOQ: 0.01 mg/m <sup>3</sup>	USEPA Method 11
Chemistry	Stack Emissions	Hydrogen Cyanide LOQ: 0.1 mg/m <sup>3</sup>	USEPA OTM 29
Chemistry	Stack Emissions	Ammonia LOQ: 0.01 mg/m <sup>3</sup>	EN 14791
Chemistry	Stack Emissions	Sulphur Dioxide (Wet Chemical) LOQ: 0.01 mg/m <sup>3</sup>	USEPA Method 6 EN 14791
Chemistry	Stack Emissions	Sulphur Dioxide LOQ: 1 ppm	USEPA CTM 30
Chemistry	Stack Emissions	Carbon Monoxide LOQ: 1 ppm	USEPA CTM 30



### **Air Quality Monitoring Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Chemistry	Stack Emissions	Oxide of Nitrogen (as NO2)	USEPA CTM 30
		LOQ: 1 ppm	
Chemistry	Stack Emissions	Oxygen LOQ: 1 ppm	USEPA CTM 30
Chemistry	Indoor Air Quality/	Carbon Monoxide	In-house method EL-M-
	Ambient Atmosphere	LOD 0.02 ppm	OP-AA-MD002
Chemistry	Indoor Air Quality/	Nitric Oxide	In-house method EL-M-
	Ambient Atmosphere	LOD 0.01ppm	OP-AA-MD002
Chemistry	Indoor Air Quality/	Sulphur Dioxide	In-house method EL-M-
	Ambient Atmosphere	LOD: 0.01 ppm	OP-AA-MD002
Chemistry	Indoor Air Quality/	Ozone	In-house method EL-M-
	Ambient Atmosphere	LOD: 0.01 ppm	OP-AA-MD002



### **Air Quality Monitoring Testing**

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### **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/	Oxides of Nitrogen (as	In-house method EL-M-
	Ambient Atmosphere	NO2)	OP-NO-MD001
		LOD: 0.01 ppm	
Chemistry	Indoor Air Quality/	TSP, PM1, PM2.5 &	In-house method EL-M-
	Ambient Atmosphere	PM10	OP-AQ-MD003
		LOD: 1 ug/m <sup>3</sup>	
Chemistry	Indoor Air Quality/	TSP, 0.3, 0.5, 1.0, 2.5, 5.0	In-house method EL-M-
	Ambient Atmosphere	and 10.0 micron	OP-AQ-MD004
		LOD: 1 ug/m³	
Chemistry	Indoor Air Quality/	Carbon Dioxide (CO <sub>2</sub> )	In-house method EL-M-
	Ambient Atmosphere	LOD: 50ppm	OP-AQ-MD004
		Range 0-10,000 ppm	
Chemistry	Indoor Air Quality/	Carbon monoxide (CO)	In-house method EL-M-
	Ambient Atmosphere	LOD 0.5 ppm	OP-AQ-MD004
		Range 0-750 ppm	



### **Air Quality Monitoring Testing**

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### **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/	Volatile organic	In-house method EL-M-
	Ambient Atmosphere	compound (VOC)	OP-AQ-MD004
		LOD 0.02ppm	
		Range 0-20ppm	
Chemistry	Indoor Air Quality/	Hydrogen Sulphide (H <sub>2</sub> S)	In-house method EL-M-
	Ambient Atmosphere	LOD 0.03ppm	OP-AQ-MD004
		Range 0-50ppm	
Chemistry	Indoor Air Quality/	Ozone (O <sub>3</sub> )	In-house method EL-M-
	Ambient Atmosphere	LOD 0.02 ppm	OP-AQ-MD004
		Range 0-1 ppm	
Chemistry	Indoor Air Quality/	Sulphur Dioxide (SO <sub>2</sub> )	In-house method EL-M-
	Ambient Atmosphere	LOD 0.1ppm	OP-AQ-MD004
		Range 0-30 ppm	



#### **Air Quality Monitoring Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Date: 13-02-2024 Issue no.: 09 Valid to: 12-02-2026

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/	Nitrogen Dioxide (NO <sub>2</sub> )	In-house method EL-M-
	Ambient Atmosphere	LOD 0.02ppm	OP-AQ-MD004
		Range 0-20 ppm	
Chemistry	Indoor Air Quality/	Ammonia (NH <sub>3</sub> )	In-house method EL-M-
	Ambient Atmosphere	LOD 1ppm	OP-AQ-MD004
		Range 0-100ppm	
Chemistry	Indoor Air Quality/	Particulate	In-house method EL-M-
	Ambient Atmosphere	LOD 0.3um	OP-AQ-MD004
		Range 0.3-145um	
Chemistry	Indoor Air Quality/	Formaldehyde (CH <sub>2</sub> O)	In-house method EL-M-
	Ambient Atmosphere	LOD 20ppb	OP-AQ-MD004
		Range 0-1000ppb	
Chemistry	Indoor Air Quality/	Sampling of LEED IAQ	In-house method EL-M-
	Personal Exposure	VOC Suite with	OP-OH-MD001
		subsequent analysis by	
		an ISO/IEC 17025	
		accredited laboratory	
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### **Air Quality Monitoring Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of VOCs with subsequent analysis by an ISO/IEC 17025 accredited laboratory	In-house method EL-M- OP-OH-MD001
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of BTEX (Benzene, Toluene, Ethyl Benzene, Xylene) with subsequent analysis by an ISO/IEC 17025accredited laboratory	In-house method EL-M-OP-OH-MD001
Chemistry	Indoor Air Quality/ Personal Exposure	Sampling of n-hexane, Cyclohexane, n-pentane, n-octane with subsequent analysis by an ISO/IEC 17025 accredited laboratory	In-house method EL-M- OP-OH-MD001



### **Air Quality Monitoring Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

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### **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/	Sampling of Ammonia	In-house method EL-M-
	Personal Exposure	with subsequent analysis	OP-OH-MD001
		by an ISO/IEC 17025	
		accredited laboratory	
Chemistry	Indoor Air Quality/	Sampling of	In-house method EL-M-
	Personal Exposure	Formaldehyde,	OP-OH-MD001
		Acetaldehyde with	
		subsequent analysis by	
		an ISO/IEC 17025	
		accredited laboratory	
Chemistry	Indoor Air Quality/	Sampling of Amines with	In-house method EL-M-
	Personal Exposure	subsequent analysis by	OP-OH-MD001
		an ISO/IEC 17025	
		accredited laboratory	



### **Air Quality Monitoring Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Indoor Air Quality/	Sampling of Hydrogen	In-house method EL-M-
	Personal Exposure	Sulphide with	OP-OH-MD001
		subsequent analysis by	
		an ISO/IEC 17025	
		accredited laboratory	
Chemistry	Indoor Air Quality/	Sampling of phenol with	In-house method EL-M-
	Personal Exposure	subsequent analysis by	OP-OH-MD001
		an ISO/IEC 17025	
		accredited laboratory	
Chemistry	Personal Exposure &	Personal Noise Exposure	In-house method EL-M-
	Indoor Air Quality/	Monitoring	OP-OH-MD002
	Ambient Monitoring	LOD 5dB	
		Range 0-140 dB	



### **Air Quality Monitoring Testing**

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### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Personal Exposure &	Inhalable Dust and	In-house method EL-M-
	Indoor Air Quality/	Respirable Dust Exposure	OP-OH-MD005
	Ambient Monitoring	Monitoring	
		LOD 0.1 mg/m <sup>3</sup>	
		Range 0-30 mg/m <sup>3</sup>	
Physical	Indoor Air Quality/	Noise	ISO 1996 Part 2
	Ambient atmosphere	LOD: 0.1 dB	
		Range: 20-140 dB	
Microbiology	Air	Total Bacterial Count	In-house method EL-M-
			OP-MIC-SOP028
Microbiology	Air	Enumeration of Moulds	In-house method EL-M-
			OP-MIC-SOP028
Microbiology	Air	Enumeration of Yeast	In-house method EL-M-
			OP-MIC-SOP028
Sampling	Air	Total Bacterial Count	NIOSH Method
			800:1998



### **Air Quality Monitoring Testing**

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# Al Futtaim Element Materials Technology Dubai LLC

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### **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Sampling	Air	Air sampling for Yeast	IESO 1220
Sampling	Air	Air sampling for Mould	IESO 1220
Sampling	Air	Total Bacterial Count	In-house method EL-M- OP-MIC-SOP028
Sampling	Air	Air sampling for Yeast	In-house method EL-M- OP-MIC-SOP028
Sampling	Air	Air sampling for Mould	In-house method EL-M- OP-MIC-SOP028



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water/ Waste Water	рН	APHA 4500 H+ B
Chemistry	Water/ Waste Water	Total Suspended Solids	APHA 2540 D
Chemistry	Water/ Waste Water	Total Dissolved Solids	APHA 2540 C BS 1377 Part 3
Chemistry	Water/ Waste Water	Oil and Grease	APHA 5520 B
Chemistry	Water/ Waste Water	Biological Oxygen  Demand-5 days	EMT-M-OP-CH-DXB- MD304 APHA 5210 B
Chemistry	Water/ Waste Water	Chemical Oxygen Demand	APHA 5220 B
Chemistry	Water/ Waste Water	Metals-Cu, Cd, Pb, Zn, Ni, Cr, Fe, Mn ,Ag, Co	АРНА 3030 АРНА 3120
Chemistry	Water / Soils	Determination of Extractable Petroleum Hydrocarbons (EPH)	EMT-M-OP-CH-DXB- MD401 EPA 8015M



#### **Environmental Testing**

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### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water / Soils	Determination of Poly	EMT-M-OP-CH-DXB-
		Aromatic Hydrocarbons	MD403
		(PAH) in Soils and	EPA 625 & EPA 8270D
		Waters by GCMS	
Chemistry	Water / Soils	Determination of Volatile	EMT-M-OP-CH-DXB-
		Petroleum Hydrocarbons	MD405
		(VPH) by GCFID & BTEX	EPA 8015M
Chemistry	Water / Soils	Determination of Volatile	
		Petroleum Hydrocarbons (VPH) by GCFID & BTEX	
Chemistry	Water / Soils	Determination of Trace	EMT-M-OP-CH-DXB-
		Level Mercury by PSA	MD114
		Cold Vapour Atomic	
		Fluorescence	
		Spectrometry	



### **Environmental Testing**

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### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Determination of Volatile	EMT-M-OP-CH-DXB-
		Organic Compounds	MD404A
		(VOC) in Waters by	EPA 5021A
		GCMS with Head Space	
Chemistry	Water	Determination of Organo-	EMT-M-OP-CH-DXB-
		Chlorine Pesticide (OCP)	MD402
		in waters by GC-ECD to	EPA 8081A
		EX-M-OP-CH-DXB-	
		MD402 & EPA 8081A.	
Chemistry	Water	Determination of Metals	EMT -M-OP-CH-DXB-
		and other Elements in	MD106B
		Potable/Drinking,	
		Effluent & saline Waters	
		by ICP-OES.	



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Determination of Metals	EMT -M-OP-CH-DXB-
		and other Elements in	MD106A
		Potable/Drinking,	
		Effluent & saline Waters	
		by ICP-OES.	
Chemistry	Water	Determination of Metals	EMT -M-OP-CH-DXB-
		and other Elements in	MD106C
		Potable/Drinking,	
		Effluent & saline Waters	
		by ICP-OES.	
Chemistry	Water	Determination of	EMT -M-OP-CH-DXB-
		Nitrate/Nitrite,	MD323A
		Ammoniacal Nitrogen in	
		Waters by Segmented	
		Flow / Colorimetry	
Chemistry	Water	Determination of	EMT -M-OP-CH-DXB-
		Inorganics Anions in	MD322
		Water by Ion	
		Chromatography	



### **Environmental Testing**

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### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Determination of	EMT -M-OP-CH-DXB-
		Bromate by Ion	MD320A
		Chromatography	
Chemistry	Water	Determination of Metals	EMT -M-OP-CH-DXB-
		and Other Elements in	MD106D
		Waters by ICP-MS	
Chemistry	Water	Organophosphorous	EMT-M-OP-CH-MD430
		Pesticides (OPP`s)	EPA 8270D
			EPA 3550C
			EPA 8141B
Chemistry	Water	Phenols	EMT-M-OP-CH-DXB-
			MD415
			EPA 528
Chemistry	Water	Polychlorinated Biphenyls	EMT-M-OP-CH-DXB-
		(PCBs)	MD416
			EPA 8270D
			EPA 3550C



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Alkalinity (inc Total ,p, m, Carbonate, Bicarbonate, Hydroxide)	EMT-M-OP-CH-MD210 APHA 2320 B
Chemistry	Water	Ammoniacal Nitrogen [NH4-N]	EMT-M-OP-CH-DXB- MD302
Chemistry	Water	Chlorine Residual (Free & Total)	EMT-M-OP-CH-DXB- MD206 APHA 4500-Cl
Chemistry	Water	Colour	EMT-M-OP-CH-DXB- MD204
Chemistry	Water	Conductivity	EMT-M-OP-CH-DXB- MD201 APHA 2520 APHA 2510
Chemistry	Water	Dissolved oxygen	EMT-M-OP-CH-MD304 APHA 4500-O C



#### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Easy Liberated Cyanide (Free)	EMT-M-OP-CH-DXB- MD310 EPA 365.2
Chemistry	Water	Fluoride	EMT-M-OP-CH-DXB- MD328 EPA 340.1
Chemistry	Water	Fluoride (ISE)	EMT-M-OP-CH-DXB- MD328A
Chemistry	Water	Chloride by titration	EMT-M-OP-CH-DXB- MD325 APHA 4500 Cl
Chemistry	Water	Sulfate (gravimetric)	EMT-M-OP-CH-DXB- MD324 BS EN 196-2
Chemistry	Water	Hardness (Total and calcium)	EMT-M-OP-CH-DXB- MD211 APHA 2340 B APHA 2340 C



#### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Hexavalent Chromium	EMT-M-OP-CH-DXB- MD330 APHA 3500-Cr B
Chemistry	Water	Nitrite [Nitrite-Nitrogen]	EMT-M-OP-CH-DXB- MD317
Chemistry	Water	Nitrate [Nitrate- Nitrogen]	EMT-M-OP-CH-DXB- MD315
Chemistry	Water	Nitrogen Kjeldhal (TKN)	EMT-M-OP-CH-DXB- MD337 APHA 4500-Norg B
Chemistry	Water	Nitrogen Total (TN)	EMT-M-OP-CH-DXB- MD318 ASTM D5176
Chemistry	Water	Orthophosphate [PO4-P]	EMT-M-OP-CH-DXB- MD326 EPA 365.2



#### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Phenols (Total)	EMT-M-OP-CH-DXB- MD333 EPA 420.1
Chemistry	Water	Salinity	EMT-M-OP-CH-DXB- MD201 APHA 2510 APHA 2520
Chemistry	Water	Sulphide by titration	EMT-M-OP-CH-DXB- MD332A
Chemistry	Water	Sulphide by colorimetry	EMT-M-OP-CH-DXB- MD332B
Chemistry	Water	Total Organic Carbon (TOC)	EMT-M-OP-CH-DXB- MD319 APHA 5310 B
Chemistry	Water	Turbidity	EMT-M-OP-CH-DXB- MD203 APHA 2130A



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Water	Chlorate, Chlorite	EMT-M-OP-CH-DXB- MD309 APHA 4110 D
Chemistry	Water	Silica	EMT-M-OP-CH-DXB-
Chemistry	Water	Fixed and volatile solids	APHA 2540 G
Chemistry	Water	Oxidation/reduction Potential	АРНА 2580 В
Chemistry	Soils	Determination of metals by ICP OES	EMT -M-OP-CH-DXB- MD112 APHA 3050 B APHA 3120 B
Chemistry	Soils	Determination of Volatile Organic Compounds (VOC) in Soils by GCMS with Head Space	EMT -M-OP-CH-DXB- MD404B EPA 5021A EPA 8260B



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil / Sediment	Boron (Hot Water Extraction)	EMT-M-OP-CH-DXB- MD140
		LXUaction)	APHA 3120 B
Chemistry	Soil / Sediment	Hexavalent Chromium	EMT-M-OP-CH-DXB- MD330 APHA 3500-Cr B
Chemistry	Soil / Sediment	Easy Liberated Cyanide (Free)	EMT-M-OP-CH-DXB- MD310 EPA 365.2
Chemistry	Soil / Sediment	Phenols	EMT-M-OP-CH-DXB- MD415A EPA 8270D
Chemistry	Soil / Sediment	Polychlorinated Biphenyls (PCB's)	EMT-M-OP-CH-DXB- MD416 EPA 3350C EPA 8270D



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil / Sediment	Fluoride	EMT-M-OP-CH-DXB- MD328 EPA 340.1
Chemistry	Soil / Sediment	Sulphide	EMT-M-OP-CH-DXB- MD332 APHA 4500 S
Chemistry	Soil / Sediment	Nitrate	EMT-M-OP-CH-DXB-MD315A EMT-M-OP-CH-DXB-MD315
Chemistry	Soil / Sediment	Nitrite	EMT-M-OP-CH-DXB- MD317
Chemistry	Soil / Sediment	Ammonia	EMT-M-OP-CH-DXB- MD302
Chemistry	Soil / Sediment	Ortho phosphate	EMT-M-OP-CH-DXB- MD326 EPA 365.2



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Soil / Sediment	Total, organic and TKN nitrogen	EMT-M-OP-CH-DXB- MD337
Chemistry	Soil / Sediment	Organochlorine Pesticide (OCP)	EMT-M-OP-CH-MD402
Chemistry	Water & Soil	Nitrate, Nitrite, Ammonia, Cyanide, Orthophosphate, Hexavalent chromium, Sulfate, Chloride, Phenols, Silica, Fluoride	Skalar/EMT-M-OP-CH- DXB-MD323C
Microbiology	Water/ Waste Water	Total Bacterial count	APHA 9215B/ colony count technique
Microbiology	Water/ Waste Water	Enumeration of Total coliform	APHA 9223 B/ MPN
Microbiology	Water/ Waste Water	Enumeration of Total coliform	APHA 9222 B/ MF colony count technique



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Water/ Waste Water	Enumeration of E. coli	APHA 9223 B/ MPN
		Enumeration of Faecal Coliforms	APHA 9222 D/ MF colony count technique
		Enumeration of Enterococci (Faecal streptococci)	BS EN ISO 7899-2
	Water: Drinking water Bottled water Potable water Pool and spa water Irrigation water Cooling tower Dental clinic water Fountain water	Enumerati on of Legionella Matrix A: Water with low background Matrix B: Water with high background Enumeration of Clostridium perfringens	ISO 11731  Matrix A: Procedures 5,7  Matrix B: Procedures  8,9,10  Standing Committee of  Analysts - The  Microbiological of  Drinking Water Part 6  Method C



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Microbiology	Water: Drinking water	Enumeration of E.coli	APHA 9222 I
	Bottled water Potable water	Enumeration of E.coli	APHA 9221 F
	Pool and spa water Irrigation water Cooling tower	Enumeration of Enterococci (Faecal Streptococci)	EMT-M-OP-EN-MD005 BS EN ISO 7899-2
	Dental clinic water Fountain water	Enumeration of Faecal Coliform	APHA 9221 E
		Enumeration of Enterococci (Faecal Streptococci) (Enterococci)	АРНА 9230 С
		Enumeration of Pseudomonas aeruginosa	EMT-M-OP-EN-MD006 BS EN ISO 16266
		Detection of Salmonella species (Presence/Absence)	АРНА 9260 В



#### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Water: Drinking water Bottled water Potable water Pool and spa water Irrigation water Cooling tower Dental clinic water Fountain water	Enumeration of Sulphite Reducing Clostridia  Enumeration of Total Coliform Detection of Vibrio parahaemolyticus (Presence/Absence)  Enumeration of Yeast	Standing Committee of Analysts - The Microbiological of Drinking Water Part 6 Method A  APHA 9221 B  Standing Committee of Analysts - The Microbiological of Drinking Water Part 10 Method B  MFHPB-22
		Enumeration of Moulds	Colony count technique  MFHPB-22  Colony count technique



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Soil / Sediment	Enumeration of E. coli	APHA 9221 F
		Enumeration of Faecal Coliform	APHA 9221 E
		Detection of Salmonella	UK Standing Committee
		species (Presence /	of Analysts - The
		Absence)	Microbiological of Sludge
			Part 4
		Enumeration of Total	APHA 9221 B
		Coliform	
	Water	Detection of Vibrio	Standing Committee of
	Sea water	cholerae	Analysts - The
	Fresh water	(Presence/Absence)	Microbiological of
	Ballast water		Drinking Water Part 10
			Method B
		Detection of Vibrio	Standing Committee of
		parahaemolyticus	Analysts - The
		(Presence/Absence)	Microbiological of
			Drinking Water Part 10
			Method B



### **Environmental Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Sampling	Water	Water Sample Collection	BS 7592 Section 2:
		for Legionella Testing	Routine sSampling
Sampling	Swabs	General Swab Sampling	EMT-M-OP-EN-SOP026
			ISO 18593



### **Metallurgy Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical &	Iron, steel and other	Standard Test Methods	ASTM A370
Metallurgical	ferrous/non ferrous	and Definitions for	ASTM E23 A
	metals	Mechanical Testing of	BS EN ISO 148-1
		Steel Products	
		Standard Test Methods for	
	.0`	Notched Bar Impact	
		Testing of Metallic	
		Materials	
		Metallic materials. Charpy	
		pendulum impact test. Test	
		method Charpy impact test	
		(temperature range -	
	1	196°C to ambient	
		temperature)	



### **Metallurgy Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical &	Iron, steel and other	Standard Test Methods	ASTM E8/E8M
Metallurgical	ferrous/non ferrous	for Tension Testing of	BS EN ISO 6892-1
	metals	Metallic Materials	API 5L 46 <sup>th</sup> Edition
		Metallic materials.	ASTM A370
		Tensile testing. Method	
	,0	of test at room	
		temperature	
		Tensile test	
	.0	(forces up to 2000 kN)	
Mechanical &	Iron, steel and other	Standard Test Methods	ASTM E92
Metallurgical	ferrous/non ferrous	for Vickers Hardness and	BS EN ISO 6507-1
	metals	Knoop Hardness of	
		Metallic Materials	
		Metallic materials.	
		Vickers hardness test.	
		Calibration of referENce	
		blocks	
		Vickers hardness test	
		(HV5 & HV10)	



### **Metallurgy Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical &	Reinforcing bars, wire rod	Steel for the	BS 4449 +A3
Metallurgical	and wire for	reinforcement of	
	reinforcement of	concrete. Weldable	
	concrete	reinforcing steel. Bar, coil	
		and decoiled product.	
	,0	Specification	
		Mass per unit length	



### **Metallurgy Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical &	Weldments	Qualification standard for	ASME IX
Metallurgical	>	welding and brazing	AWS D1.1/D1.1M
		procedures, welders,	API 1104 22 <sup>nd</sup> Edition
		brazers, and welding and	BS EN ISO 5173 + A1
		brazing operators	
	,,0	Structural Welding Code	
		–SteeL	
		Welding of Pipelines and	
		Related Facilities	
		Destructive tests on	
.0		welds in metallic material	
		Bend test	
Mechanical &	Weldments	Destructive tests on	BS EN ISO 9017
Metallurgical		welds in metallic	API 1104 22 <sup>nd</sup> Edition
		materials. Fracture test	ASME IX
		Fracture & nick break	AWS D1.1/D1.1M
		test	



### **Metallurgy Testing**

LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical &	Weldments	Destructive tests on	BS EN ISO 9015-1
Metallurgical	>	welds in metallic	API 1104 22 <sup>nd</sup> Edition
		materials. Hardness	ASME IX
		testing. Hardness test on	AWS D1.1/D1.1M
		arc welded joints	
		Hardness	
Mechanical &	Weldments	Destructive tests on	BS EN ISO 17639
Metallurgical		welds in metallic	API 1104 22 <sup>nd</sup> Edition
	.0	materials. Macroscopic	ASME IX
		and microscopic	AWS D1.1/D1.1M
		examination of welds	
		Macro examination	



### **Metallurgy Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical &	Weldments	Destructive tests on	BS EN ISO 4136
Metallurgical	2	welds in metallic	BS EN ISO 5178
		materials. Transverse	API 1104 22 <sup>nd</sup> Edition
		tensile test	ASME IX
		Destructive tests on	AWS D1.1/D1.1M
	,0	welds in metallic	
	400	materials. Longitudinal	
		tensile test on weld metal	
		in fusion welded joints	
		Tensile	
Mechanical/ Physical	Steel	Carbon Steel Bars for the	BS 4449 Appendix C
		reinforcement of	Clause C.1.6.1
		Concrete (Steel bend	
		tests)	ASTM A615/A615M
Mechanical/ Physical	Steel	Carbon Steel Bars for the	BS 4449
		reinforcement of	BS EN ISO 15630-1
		Concrete (Steel tensile	
		strength test)	



### **Metallurgy Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Mechanical/ Physical	Steel	Carbon Steel Bars for the	BS 4449 Annex E Clause
	>	reinforcement of	E.1.6
		Concrete (Steel rebend	
		tests)	
Chemistry	Carbon Steel, Low	Chemical analysis of	EMT-M-OP-CH-MD101,
	Alloy Steel, and Stainless	metals by Optical	ASTM E415
	Steel	Emission Spectrometer	ASTM A751
			ASTM E1086
	.0		



#### **Food Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeraition of Yeast	EMT-M-OP-EN-MD011 MFHPB-22
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Mould	EMT-M-OP-EN-MD011 MFHPB-22
Microbiology	Food	Colony Count	ISO 4833-1 Amd 1:2022
Microbiology	Food	Enumeration of Enterobacteriaceae	ISO 21528-2
Microbiology	Food	Enumeration of Total Coliform	ISO 4832
Microbiology	Food	Detection of Salmonella species	ISO 6579-1 AMD 1:2020



### **Food Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Food	Enumeration of Coagulase positive staphylococci including Staphylococcus aureus	ISO 6888-1
Microbiology	Food	Aerobic Plate Count	AOAC OMA 990.12 3M Petrifilm method
Microbiology	Food	Enumeration of Coliforms	AOAC OMA 991.14 3M Petrifilm method
Microbiology	Food	Enumeration of E.coli	Selective E.coli, 3M Petrifilm method, version 2
Microbiology	Food	Enumeration of Staphylococcus aureus	AOAC OMA 2003.7, 2003.8 & 2003.11 3M Petrifilm method
Microbiology	Food	Enumeration of Enterobactericeae	AOAC OMA 2003.01 3M Petrifilm method



#### **Food Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Food	Enumeration of Yeast	AOAC OMA 997.02 3M Petrifilm method
Microbiology	Food	Enumeration of Mould	AOAC OMA 997.02 3M Petrifilm method
Microbiology	Food	Enumeration of E.coli	ISO 7251
Microbiology	Food	Enumeration of Bacillus cereus	ISO 7932 AMD 1:2020
Microbiology	Food	Enumeration of Clostridium perfringens	ISO 7937
Microbiology	Food	Enumeration of Yeast	MFHPB-22 Colony count technique
Microbiology	Food	Enumeration of Moulds	MFHPB-22 Colony count technique
Microbiology	Sea food and sea food products	Detection of Vibrio cholerae	ISO 21872-1



#### **Food Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Sea food and sea food products	Detection of Vibrio parahaemolyticus	ISO 21872-1
Microbiology	Swabs: Swabs from food chain environments and personnel	Colony Count	ISO 4833-1 Amd 1:2022
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Enterobacteriaceae	ISO 21528-2
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Total Coliform	ISO 4832
Microbiology	Swabs: Swabs from food chain environments and personnel	Detection of Listeria species including Listeria monocytogenes	ISO 11290-1



#### **Food Testing**

LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test  Materials/Products	Test Name	Test Method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Coagulase positive staphylococci including Staphylococcus aureus	ISO 6888-1
Microbiology	Swabs: Swabs from food chain environments and personnel	Aerobic Plate Count	AOAC OMA 990.12 3M Petrifilm method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Coliforms	AOAC OMA 991.14 3M Petrifilm method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of E.coli	Selective E.coli, 3M Petrifilm method, version 2



#### **Food Testing**

LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Microbiology	Swabs:	Enumeration of	AOAC OMA 2003.7,
	Swabs from food chain environments and personnel	Staphylococcus aureus	2003.8 & 2003.11, 3M Petrifilm method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Enterobactericeae	AOAC OMA 2003.01 3M Petrifilm method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Yeast	AOAC OMA 997.02 3M Petrifilm method
Microbiology	Swabs: Swabs from food chain environments and personnel	Enumeration of Mould	AOAC OMA 997.02 3M Petrifilm method



#### **Construction Materials- Green Building Testing**

#### LB-TEST-002

# Al Futtaim Element Materials Technology Dubai LLC

# Plot 598-221 | Dubai Investment Park |, Jebel Ali

### **Dubai | United Arab Emirates**

Type of Activity	Test Materials/Products	Test Name	Test Method
Chemistry	Paint	Determination of VOCs	EMT-M-OP-CH-DOH-
		in paint by gas	MD404C
		chromatography	ISO 11890 Part 2
Chemistry	Paint	Determination of VOCs	EMT-M-OP-CH-DOH-
		in paint by difference	MD404D
			EPA 24
			ISO 11890 Part 1
			ASTM D3960
			ASTM D2369
Chemistry	Paint	Determination of trace	EMT-M-OP-CH-DXB-
		metals in Paint	MD108