

**Laboratory test report
 (Chemical Analysis)**

Client	LEFKON Marble Quarrying & Trading 3 Ifestou St. Maroussi - Athens 151 24 GREECE Tel: +30 210 6197745, E-mail: lefkon@lefkon.eu	Report No	2017/166
	Project	Natural Stone Laboratory Testing: "Lefkon Marble"	Date
Issue			1
<i>Replaces Issue 0</i>			
		Project No	010217-E1

Sample description:	"Lefkon Marble"	Sample No	010217-1
Sampling date:	Dec-16	Receiving date:	01-02-17
Sampling site:	Xylalogo Quarry, 59 100 Veria, Greece	Testing date:	3-15/2/2017
Sampling execution:	Client		

Polyaromatic Hydrocarbons	Analytical Method	Unit	Result	LoQ
Naphthalene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	2
Acenaphthalene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.4
Acenaphthene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	1
Fluorene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.4
Phenanthrene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.2
Anthracene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.2
Fluoranthene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.4
Pyrene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.04
Benzo (a) anthracene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.1
Chrysene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.1
Benzo (b) fluoranthene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.02
Benzo (i) fluoranthene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.02
Benzo (a) pyrene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.02
Indeno (1,2,3-c,d) pyrene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.2
Dibenzoanthracene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.2
Benzo (g,h,i) perylene	Extraction/Conc./HPLC-FI det.	mg/kg	N.D.	0.4

Heavy Metals		Analytical Method	Unit	Result	LoQ
Cobalt	Co	Direct Aspiration AAS	mg/kg	N.D.	0.5
Nickel	Ni	Direct Aspiration AAS	mg/kg	23.70	0.5
Chromium	Cr	Direct Aspiration AAS	mg/kg	6.8	0.5
Cadmium	Cd	Direct Aspiration AAS	mg/kg	N.D.	0.1
Lead	Pb	Direct Aspiration AAS	mg/kg	4	1
Antimony	Sb	Hydride Generation AAS	mg/kg	N.D.	0.02
Arsenic	As	Hydride Generation AAS	mg/kg	0.016	0.01
Vanadium	V	Cold Vapor AAS	mg/kg	4.1	1
Mercury	Hg	Cold Vapor AAS	mg/kg	N.D.	0.005

Radionuclides		Analytical Method	Unit	Result	(±U)	LoQ
Ra - 226 (Radium)		TR No 295 IAEA 1989	Bq/kg	<13	3.0	5.0
Ra - 228		TR No 295 IAEA 1989	Bq/kg	<2		1.0
Th - 228 (Thorium)		TR No 295 IAEA 1989	Bq/kg	<2		1.0
Th - 232		TR No 295 IAEA 1989	Bq/kg	<2		1.0
U - 238 (Uranium)		TR No 295 IAEA 1989	Bq/kg	<8	2.0	4.0
K - 40 (Potassium)		TR No 295 IAEA 1989	Bq/kg	<6	1.0	2.0

Remarks: Heavy Metals & Polyaromatic Hydrocarbons tests were executed by Chemical lab "ANDREOU K. IKE", accredited according to ISO/IEC 17025:2005. Radionuclides tests were executed by "ENVIRONMENTAL RADIOACTIVITY LABORATORY" of NATIONAL CENTER FOR SCIENTIFIC RESEARCH "DEMOKRITOS", accredited according to ISO/IEC 17025:2005. **LoQ:** Limit of Quantification, **N.D.:** Not Detected. According to Directive 96/29/EURATOM 31/5/1996, the material is safe for use.

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Sampling site:	Xylalogo Quarry, 59 100 Veria, Greece	Testing date:	3-15/2/2017
Sampling execution:	Client		

Main elements' oxides	Analytical Method	Unit	Result	LoQ
Iron dioxide, FeO	Acid digestion AAS	% w/w	N.D.	0.0005
Iron trioxide, Fe ₂ O ₃	Acid digestion AAS	% w/w	0.0138	0.0005
Silica oxid, SiO ₂	Alkalifusion AAS	% w/w	0.232	0.005
Aluminum trioxide, Al ₂ O ₃	Alkalifusion AAS	% w/w	0.058	0.005
Magnesium oxide, MgO	Acid digestion AAS	% w/w	0.512	0.001
Calcium oxide, CaO	Acid digestion AAS	% w/w	54.8	0.002
Ttanium oxide, TiO ₂	Alkalifusion AAS	% w/w	0.009	0.001
Manganese oxide, MnO ₂	Acid digestion AAS	% w/w	0.0008	0.0001
Loss on Ignition @1000°C	Gravimetric	% w/w	43.8	0.5

Remarks: Determination of main elements' oxides was executed by Chemical lab "ANDREOU K. IKE", accredited according to ISO/IEC 17025:2005
LoQ: Limit of Quantification, **N.D.:** Not Detected.

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Parameter	Analytical Method	Unit	Result	LoQ
ASBESTOS	HSG 248, HSE, UK by PLM	% w/w	N.D.	0.01

Conclusion: The sample does not contain asbestos.

Comments: **LoQ:** Limit of Quantification, **N.D.:** Not Detected, **PLM** : Polarised Light Microscopy.
 Tests were executed by Chemistry lab "ANDREOU K. IKE", accredited by Hellenic Accreditation System "E.SY.D." according to ISO/IEC 17025:2005.