MULTIMIN (EGYPT) FOR MINING

Multi-Minerals Is Job 1

Who are we ?

- We are shareholders Egyptian mining company founded by experienced entrepreneurs.
- Headquarter in Cairo , Egypt.
- Having a well trained staff with an experience of at least 15 up to 30 years in the minerals field.

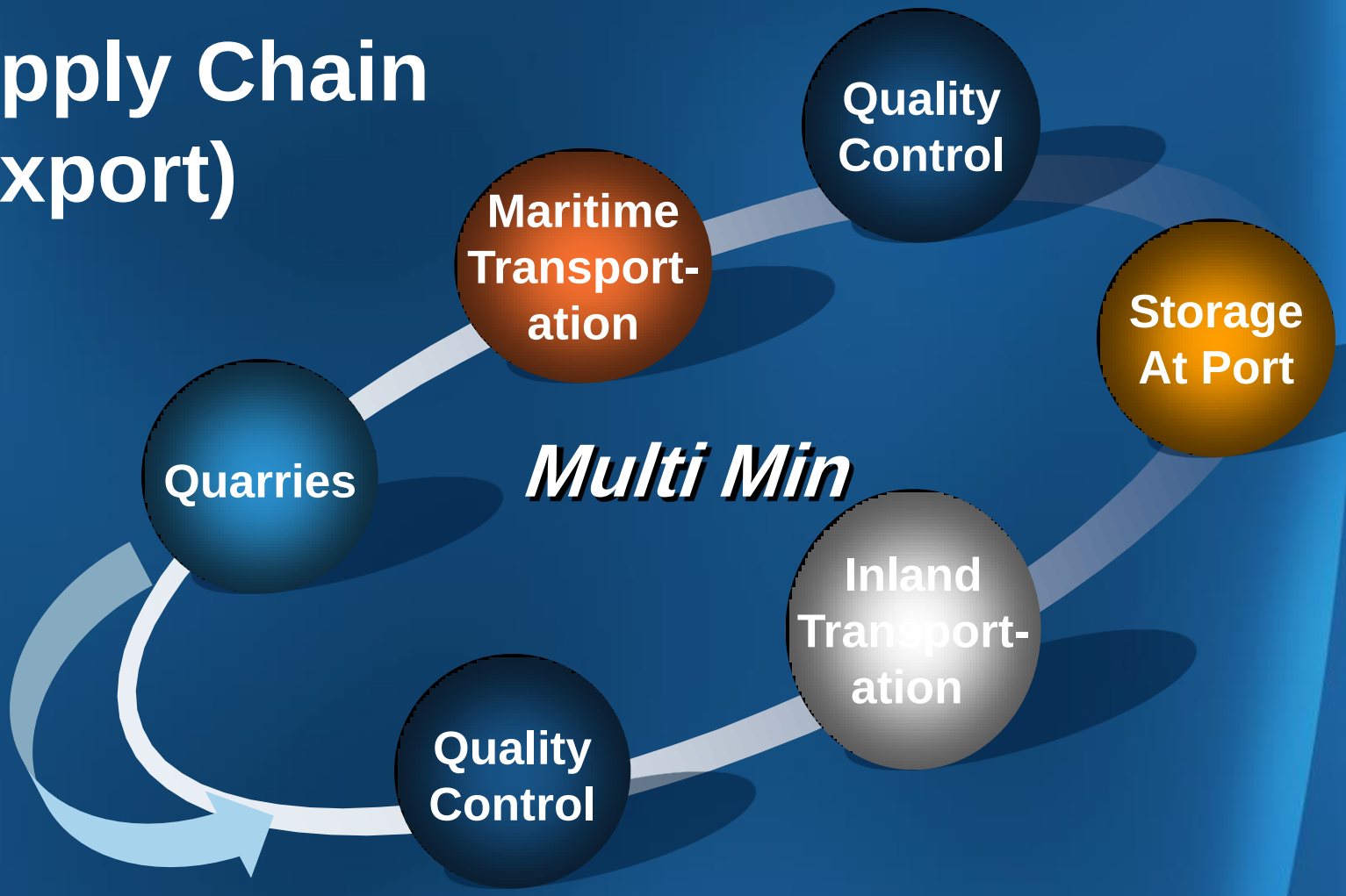
Vision

Set up a reliable Multi-minerals platform in Egypt serving the domestic and international markets according to the highest quality standards with the target of satisfying the wants and needs of the customers.

Mission

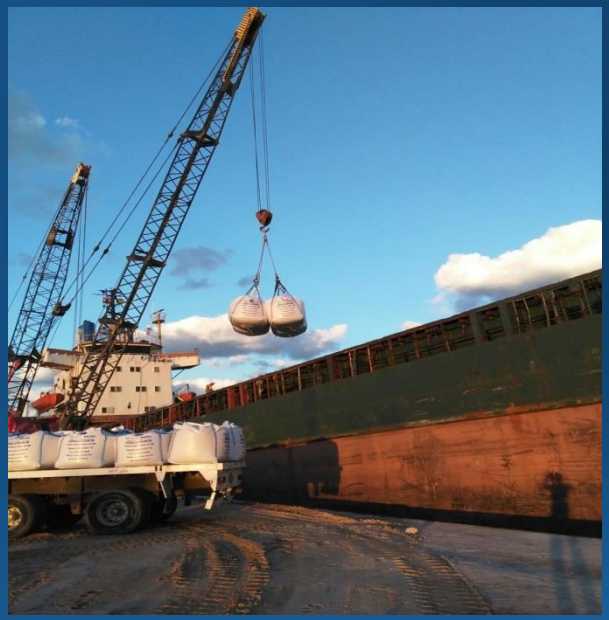
- Being an Innovating company, with continuous investments in product development, production technology and quality improvement.
- We offer solutions for different markets.
- Reliable deliveries.
- We offer a wide range of products to different kind of customer needs.

Supply Chain (Export)



Bulk Cargo In charter vessel

Packed Cargo In charter vessel



Packed Cargo In Containers

Production & Storage Capacity

Annual Capacity

300,000 Tons

Storage Capacity

140,000 Tons

Total Reserve

5,600,000 Tons

Egyptian Loading Sea Ports & Warehouses

Damietta WH Capacity: 50,000 Tons

El Arish WH inside port Capacity: 10,000 Tons

El Arish WH outside port Capacity: 15,000 Tons

AinSukhna WH Out Side port Capacity: 25000 Tons For charter & Containers vessels

Abu Zenima WH Inside port Capacity: 40,000 Tons

Quality Control-MULTIMIN's Lab

Quality Control Laboratory

Working according to the British standards

Sand For Glass & Ceramics

Chemical Specification:

Constituent	MUL (140)%	MUL(200) %	MUL (250)%	MUL(300)%
SiO2	99.3-99.85	99.299.6	99.2-99.5	99.2-99.5
Fe2O3	0.012-0.014	0.015 -0.020	0.020-0.025	0.025-0.030
Cr2O3	0.0003 Max	0.0004 Max	0.0004 Max	0.0004 Max
TiO2	Traces	Traces	Traces	Traces
Al2O3	0.10 - 0.20	0.1-0.28	0.1-0.3	0.1-0.4
CaO	0.02 - 0.05	0.02-0.05	0.05-0.15	0.05-0.15
MgO	0.002 - 0.005	0.002-0.005	0.004-0.006	0.004-0.006
L.O.I	0.1-0.2	0.1-0.2	0.1-0.2	0.1-0.2

Grain Size Distribution:

A P mm	0.6 mm %
+ 0.600 mm	0.00 – 0.5 Max
+ 0.400 mm	10.00 – 20.00
+0.150 mm	78 – 85
+ 0.125 mm	13 – 17
+ 0.105 mm	1.8-2.5
+0.074 mm	1.7 – 2.2
Below	0.3 – 0.8

A P mm	0.8 mm %
+ 0.850 mm	0.00 – 0.5 Max
+ 0.600 – 0.850 mm	1.00 –4.00
+ 0.425 – 0.600 mm	10.00 – 20.00
+ 0.212 – 0.425 mm	40.00 – 60.00
+ 0.150 – 0.212 mm	20.00 – 30.00
- 0.150 mm	10.00 – 20.00

Chemical Specification & Grain Size Distribution For MUL (600)

Constituent	MUL (600)%
SiO_2	98.5-99.5
Fe_2O_3	0.040-0.060
Cr_2O_3	0.001 Max
TiO_2	Traces
Al_2O_3	0.3-0.6
CaO	0.07-0.2
MgO	0.008-0.1
L.O.I	0.3-0.6

A P mm	1.00 mm %
+ 2.00 mm	Traces
+ 1.00 mm	0.5-1.00
+ 0.600 mm	2.00 – 5.00
- 150 mm	10.00 – 20.00 Max

Chemical Specification For MUL (1000)

Constituent	MUL (600)%
SiO_2	98.5-99.5
Fe_2O_3	0.05-0.1
Cr_2O_3	0.001 Max
TiO_2	Traces
Al_2O_3	0.3-0.6
CaO	0.1-0.2
MgO	0.02-0.1
L.O.I	0.3-0.6

Grain Size Distribution For MUL (1000)

Sieved On 0.8 mm

US MESH # ASTM E11	BS Mesh # BS 410	Size mm	Results %
10	8	2.000	
16	14	1.180	Traces
20	18	0.850	0.5
25	22	0.710	2 - 3
35	30	0.600	5-10
Maximum Fraction Through Sieve			
120	120	0.125	5
140	150	0.106	2 - 3
170	170	0.090	1-2

Sieved On 1.00 mm

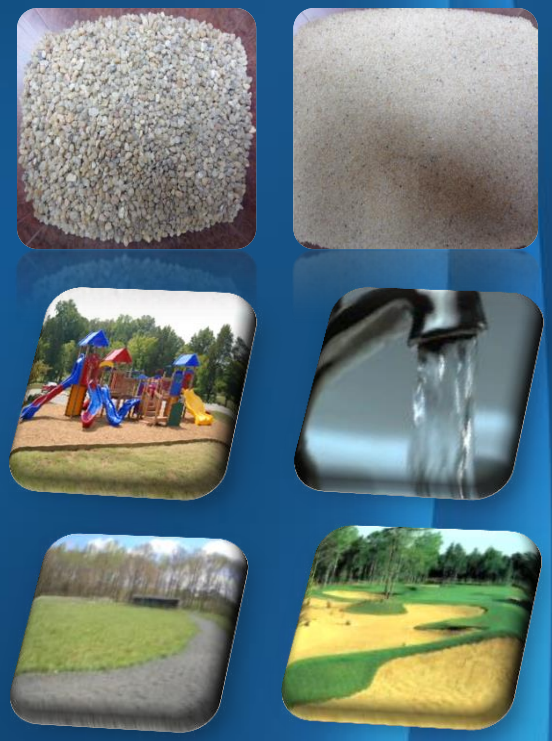
US MESH # ASTM E11	BS Mesh # BS 410	Size mm	Results %
10	8	2.000	Traces
18	16	1.000	0.5
25	22	0.710	3-5
35	30	0.600	5-10
Maximum Fraction Through Sieve			
120	120	0.125	5.0
140	150	0.106	2 - 3
170	170	0.090	1-2

Chemical Specification For Classified Sand

Chemical Analysis (1)	
SiO_2	97%
Fe_2O_3	0.2%
Al_2O_3	1.5% Max.

Chemical Analysis (2)	
SiO_2	95%
Fe_2O_3	0.28%
Al_2O_3	2.5%

Chemical Analysis (3)	
SiO_2	97.5 – 99%
Fe_2O_3	0.15-0.25% max
Al_2O_3	1-1.5% max



Grain Size Distribution :

Upon customer request

Calcined Gypsum

Chemical Specification:

Constituents	Typical PCT
Crystal water	5 : 7
Hemi-hydrate " Caso4.½ H20"	94.00 min.
Insoluble Residue	1 .00 max.
Fe2O3	0.07 max.
Cl	0.015 max.
CaO	37 : 38
So3	52 : 54
Moisture	0.00

Physical Properties:

Initial setting time	8 : 15 minutes
Degree of whiteness	96 min.
Fineness, Retained On sieve 0.15 mm(100 mesh)	6% : 10%
Green , bending strength "after 24 hours"	30 Kg/cm2, min.
Dry , bending strength "after one week"	55 Kg/cm2, min.

Gypsum Ore

Chemical Specification:

Symbol	Result%	Symbol	Result%
SiO2	0.5211	P2O5	0.0082
Al2O3	0.6993	TiO2	0.0021
Fe2O3	0.0892	L.O.I	20.6811
CaO	30.9001	Total	99.9365
MgO	0.7420	Combined water	20.3928
Cl-	0.0211	CaSo4.2H2O	97.4371
SO3	46.0073		
Na2O	0.1911		
K2O	0.0699		

Grain Size Distribution :

From 1–5 cm
From 1-15 cm
From 1-40 cm

Ferro Manganese (Grade 1)

Chemical Analysis	
Mn	75% Min
C	6-8 %
Si	1.00 % Max
S	0.025 % Max
P	0. 25% Max

Grain Size Distribution	
10 mm – 50mm	90%
10mm-100mm	90%

Ferro Manganese (Grade 2)

Chemical Analysis	
Mn	73 % Min.
C	6-8 %
Si	1.00% Max
S	0.025% Max
P	0. 25% Max

Grain Size Distribution	
10 mm – 50mm	90%
10 mm – 100 mm	90%

Kaolin – Type A

Chemical Analysis:

Constituent	Type (A) %
SiO_2	50-60%
Al_2O_3	27-32%
Fe_2O_3	0.8-1.3%
TiO_2	1.3-2.2
CaO	0.10-0.25
MgO	0.05-0.15
Na_2O	0.07-0.15
K_2O	0.03-0.06
L.O.I.	10.5-11.00

Grain Size Distribution:

Run of mine (from 0.0 to 30 cm) OR (from 0.0 to 15 cm) OR Upon customer request.

Kaolin – Type B

Chemical Analysis:

Constituent	Type (B) %
SiO_2	50-60%
Al_2O_3	20-25%
Fe_2O_3	0.8-1.2%
TiO_2	1.3-2.2
CaO	0.10-0.25
MgO	0.05-0.15
Na_2O	0.07-0.15
K_2O	0.03-0.06
L.O.I.	9.0-10.00

Grain Size Distribution:

Run of mine (from 0.0 to 30 cm) OR (from 0.0 to 15 cm) OR Upon customer request

Quartz – Code: QU/KM

Chemical Analysis:

Parameter	Units	Typical
Chemical Analysis (Dry Basis)		
SiO_2	wt%	99.3 - 99.7
Al_2O_3	wt%	0.12
Fe_2O_3	wt%	0.025
CaO	wt%	0.035
MgO	wt%	0.01
BaO	wt%	0.01
K_2O	wt%	0.06
P	ppm	<50
LOI	wt%	0.11
Moisture	wt%	1

Grain Size Distribution:

30mm to 120 mm (3-12 cm)

Potassium Feldspar – Type 1

Chemical Analysis:

Symbol	Concentration (%)	Abs. Error (%)
Na2O	2.257	0.025
MgO	0.03089	0.00076
Al2O3	16.00	0.06
SiO2	66.42	0.25
K2O	10.00 – 12.00	0.03
CaO	0.1302	0.0056
TiO2	<0.014	(0.011)
Fe2O3	0.05 – 0.20	0.00037

Grain Size Distribution:

From 0 - 5 mm or Larger Size or 30mm to 120 mm (3-12 cm)

Raw Salt

Chemical Analysis:

Ions Cont.	
Moisture	4.2%
Insol. Salts	0. 5%
Sulphate	0.99%
Bicarbonate	0.122%
Carbonate	Absent.
Calcium	0.22%
Magnesium	0.36%

Salts Cont.	
$Ca\ (Hco3)_2$	0.162%
$Caco_3$	Absent.
$Caso_4$	0.584%
$Mgso_4$	0.988%
$Mgcl_2$	0.626%

M.F=1.0482
Sodium Chloride (Dry) =97.62%
Others=0.15%

Road Salt

Chemical Analysis:

Ions Cont.	
Moisture	4%
Insol. Salts	1.00%
Sulphate	0.8%
Bicarbonate	0.134%
Carbonate	0.024%
Calcium	0.28%
Magnesium	0.23%

Salts Cont.	
$Ca\ (Hco3)_2$	0.178%
$Caco_3$	0.04%
$Caso_4$	0.747%
$Mgso_4$	0.342%
$Mgcl_2$	0.63%

M.F=1.0456
Sodium Chloride (Dry) =96.00%
Other=0.087%

Washed Salt

Chemical Analysis:

Ions Cont.	
Moisture	4.0%
Insol. Salts	0.25%
Sulphate	0.85%
Bicarbonate	0.073%
Carbonate	Absent.
Calcium	0.32%
Magnesium	0.09%

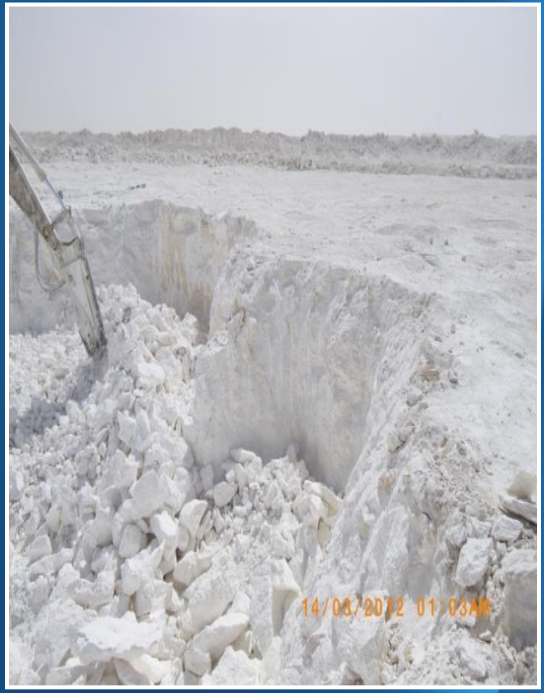
Salts Cont.	
$Ca\ (Hco3)_2$	0.097%
$Caco_3$	Absent.
$Caso_4$	0.482%
$Mgso_4$	0.42%
$Mgcl_2$	0.117%

M.F=1.047
Sodium Chloride (Dry) =98.32%
Others=0.11%

Limestone

Chemical Analysis:

Chemical Analysis	
SiO_2	0.5 – 0.8 %
Al_2O_3	0.2 – 0.5 %
CaO	54.2 – 56.5 %
Mgo	0.149 – 0.174 %
Fe_2O_3	0.01 – 0.04 %
L.O.I	43.10 – 43.90 %



Brightness: **95% -97%**

Moisture: **Trace**

Grain Size

According to customer request

Coated Limestone

Chemical Analysis:

Compound Formula	Concentration (Wt %) 154/16 15 M-V2
Na2O	0.059
MgO	0.214
Al2O3	0.036
SiO2	0.087
SO3	0.037
P2O5	0.031
CaO	55.927
NiO	0.004
Fe2O3	0.034
SrO	0.049
ZnO	0.006
Cl	0.016
L.O.I	43.5

Physical Properties:

Brightness	Iso-Brightness %	Whiteness %	Redness %	Yellowness %
92.12	93.89	96.89	0.09	1.36

Grain Sizes:

Upon customer request

Talc – Grade 1

Chemical Analysis:

Element	Result (%)
SiO_2	62.70
MgO	30.94
Al_2O_3	0.36
CaO	0.54
Fe_2O_3	0.19
Na_2O	0.101
K_2O	0.04
L.O.I	4.81
P_2O_5	0.044
H_2O	0.18
Total	99.905
CIE Brightness	89.5
YI	0.1

Physical Properties:

Special Gravity		2.816
Mohr Hardness		1
Surface Area	M2/G3	13.04
Density – Loose	M2/G3	0.0588
Acid Soluble		0.46
PH		7.01
Absorbed Moisture		0.46

Talc – Grade 2

Chemical Analysis:

Element	Result (%)
SiO_2	62.51
MgO	30.34
Al_2O_3	0.38
CaO	0.58
Fe_2O_3	0.31
Na_2O	0.069
K_2O	0.04
L.O.I	5.02
P_2O_5	0.057
H_2O	0.23
Total	99.905
CIE Brightness	85.1
YI	0.2

Physical Properties:

Special Gravity		2.816
Mohr Hardness		1
Surface Area	M2/G3	13.04
Density – Loose	M2/G3	0.0588
Acid Soluble		0.46
PH		7.01
Absorbed Moisture		0.46

Cullet : Amber , Clear & Green

WHERE WE EXHIBITED ?

Gulf Glass

GLASS WORLD

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INTERNATIONAL TRADE FAIR FOR GLASS
PRODUCTION • PROCESSING • PRODUCTS

İSTANBUL GLASS EXPO

THE BIG 5
International Building & Construction Show

EGYPTIAN TRADE CENTER

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Thank You