



ROOTED IN EGYPT REACHING THE WORLD

providing integrated and
innovative mining solutions.

2025

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► Who We Are?

Genesis Mining is a registered Egyptian company (Commercial Registration No. 255077), headquartered near Cairo International Airport, Sheraton Residences, Cairo, Egypt.

Founded as a sister company to Mecca Al Baraka Contracting (which began operations in 2014) Genesis Mining was established to provide integrated and innovative mining solutions that align with the evolving global landscape of the mining sector.

Our approach breaks away from traditional mining models. We deliver comprehensive services including exploration, extraction, and primary raw material processing, all aimed at maximizing the added value of Egypt's natural resources. This model enables us to support downstream industries by supplying high-quality raw materials, reducing time, effort, cost, and enhancing the competitiveness of Egyptian products in regional and global markets.



► Our vision

To revolutionize the mining industry in Egypt and the region by shifting from traditional practices to a modern, innovation-driven model that focuses on added value, advanced technologies, and waste reduction across all mining operations. We aim to be a regional leader in digital and environmental transformation within the mining sector.

► Our Mission

To optimize the exploitation of mineral resources in Egypt and the region by developing them into high-efficiency raw materials suitable for industrial use, thereby increasing their economic value and driving industrial and export-oriented growth.



► Scope of Work

Genesis Mining operates across several regional and international markets, including Africa and the Middle East.

We are focused on expanding our export operations, targeting high-potential markets in Southeast Asia, Africa, Europe, and Latin America. We aim to strengthen our international presence and establish ourselves as a reliable global supplier of high-quality raw materials.



In line with this, the company strategically utilizes Egypt's strategic geographic location and the modern infrastructure network recently developed by the government — including upgraded road networks, advanced seaports, railways, and integrated logistics zones. These enhancements significantly strengthen the company's capability to ensure efficient, reliable, and timely access to international markets, while aligning with Egypt's broader vision of positioning itself as a leading global logistics hub.

Our strategic roadmap also includes entering new markets through strategic alliances and establishing logistics distribution hubs to ensure efficient and timely delivery worldwide.



► Investments & Human Resources

- Initial Capital: **USD 300 million**
- Targeted Investments by 2028: **USD 1 Billion**

Workforce:

Genesis Mining employs more than 1800 engineers, technicians, and workers, all selected based on the latest performance and competency standards. Every employee undergoes rigorous quality testing before recruitment.

We are committed to continuous human capital development through regular training programs to ensure our teams stay aligned with the latest technologies and market practices.

The company also boasts a dedicated team of expert geologists and chemists, enhancing our capabilities in exploration, analysis, and raw material processing.

By 2026, Genesis Mining plans to establish its own certified laboratories (locally and internationally accredited) equipped with cutting-edge technology to ensure the highest standards in mineral analysis and evaluation.



► Resources & Mining Projects

► **Ballast Quarry – Galala Region**
Monthly Production: 500,000 Tons

► **Rock Phosphate Mines – Sebaiya Region**
Monthly Production: 60,000 Tons
Grade: 26% – 30% P_2O_5

► **Iron Oxide Mines**
Monthly Production: 30,000 Tons



► **Strategic Partnerships & Joint Projects**

Genesis Mining maintains strong strategic partnerships with both public and private entities, including:

- **El Nasr Mining Co.**
- **Egyptian Mining Company (Management and exploitations of quarries and salt marshes)**
- **Egyptian Mineral Resources Authority (EMRA)**
- **Leading academic and research institutions in Egypt**

We also collaborate with the Egyptian Black Sand Company (EBSC) on the extraction and preliminary processing of several minerals, including:

- **Ilmenite FeTiO_3 (iron oxide and titanium).**
- **Zircon ZrSiO_4 (Zircon Sand / Ultra Fine Zircon).**
- **Rutile TiO_2**
- **Magnetite Fe_3O_4**
- **Garnet $\text{FeAlSi}_3\text{O}_9$**

These efforts aim to enhance raw material quality, increase added value, and foster integrated, sustainable industry growth.

► Research & Development

Genesis Mining conducts ongoing exploratory and scientific studies to expand its portfolio of strategic minerals. Current R&D initiatives include:

- Copper exploration in Marsa Alam (preliminary study phase)
- Detailed studies on:
 - Gold
 - Titanium
- Lead
- Manganese

These studies are carried out in cooperation with international exploration firms and national research institutions to ensure thorough resource evaluation and economic feasibility before project launch.

▶ Our Products

Mining Products:

- ▶ **Rock Phosphate Powder**
 P_2O_5 : 26% – 30%
- ▶ **Lump Rock Phosphate**
 P_2O_5 : 20% – 25%
- ▶ **Quartz**
Sizes from 45 micron to 1200 micron
- ▶ **Ballast Gravel**
- ▶ **Albite** (Sodium Feldspar)
- ▶ **Ilmenite $FeTiO_3$** (iron oxide and titanium).
- ▶ **Zircon $ZrSiO_4$** (Zircon Sand / Ultra Fine Zircon).
- ▶ **Rutile TiO_2**
- ▶ **Magnetite Fe_3O_4**
- ▶ **Garnet $FeAlSi_3O_9$**
- ▶ **Iron Oxide Fe_2O_3**

► ROCK Phosphate

At Rock Phosphate, our goal is to become a leading global supplier of direct application phosphate for the agricultural sector. We are deeply committed to promoting sustainable farming through the use of natural, slow-release phosphate fertilizers.

Our Direct Application Phosphate Rock (DAPR) is ideal for long-term soil nutrition, gradually releasing phosphate under acidic soil conditions. The phosphate release is further enhanced by the presence of soil moisture, ensuring consistent nutrient availability over time.

This environmentally friendly product is well-suited for maintenance applications and can be safely blended with elemental sulfur, dolomite, or magnesium oxide to meet specific soil requirements.



► Chemical Analysis

Element	RP 26%	RP 27%	RP 28%	RP 29%	RP 30%
P ₂ O ₅	26 MIN	27 MIN	28 MIN	29 MIN	30 MIN
CaO	44-45	45-46	47-48	47-48	48
MgO	3.05	0.6-0.4	0.35-0.5	0.45	0.4
Fe ₂ O ₃	1.90-2.00	1.8-2.00	2.00-2.50	2.2	2.2
Al ₂ O ₃	0.5-0.8	0.6-0.8	0.35-0.55	0.6	0.6
CL	0.05-0.07	0.08-0.06	0.04-0.07	0.07	0.07
F	2.5-2.6	2.7-2.8	2.50-3.50	3.1	3.1
SiO ₂	14-Nov	11-Oct	7.00-10.5	8	8
L.O.I	10-Aug	7.5-8.5	6.5-8.0	Jul-50	Jul-50
H ₂ O	4.0 (max)	4.0 (max)	4.0 (max)	4.0 (max)	4.0 (max)

► ROCK Phosphate

► Size Analysis

Size	Result %
4.5	3
-4.34	68.0 - 72
-0.03	10.0 - 12.0
-0.05	2.00 - 4.0
-0.08	14.0 - 16.0

► Heavy Metals

Element	Typical Range
Cd (Cadmium)	1-30 ppm
As (Arsenic)	< 10 ppm
Pb (Lead)	< 20 ppm
U (Uranium)	50-200 ppm
Cr ₂ O ₃ (Chromium)	0.01-0.03%
SrO (Strontium Oxide)	0.5-1.5%
MnO (Manganese Oxide)	0.05-0.2%



► Most important Black Sand Products

► Ilmenite FeTiO_3

Genesis Mining conducts ongoing exploratory and scientific studies to expand its portfolio of strategic minerals. Current R&D initiatives include:



► Analysis

(1)

S	Element	Results	Unit
1	TiO_2	46.4	%
2	Fe_2O_3	50.8	%
3	SiO_2	1.31	%
4	MnO	1.21	%
5	Cr_2O_3	0.27	%
6	V_2O_5	0.18	%
7	CaO	0.40	%

(2)

S	Element	Results	Unit
1	TiO_2	44.9	%
2	Fe_2O_3	48.8	%
3	SiO_2	2.62	%
4	MnO	1.41	%
5	Cr_2O_3	0.39	%
6	V_2O_5	0.16	%
7	CaO	0.83	%

► Magnetite (Fe_3O_4)

Magnetite is one of the oxides of iron, considered as a versatile mineral with in the production of high-quality cast iron, sponge iron and soil desalination, environmental protection, electronics, construction and involved in manufacturing huge concrete boulders to protect beaches.



► Analysis

(1)

S	Element	Results	Unit
1	TiO_2	17.9	%
2	Fe_2O_3	72.9	%
3	SiO_2	2.43	%

► Most important Black Sand Products

► Leucoxene

Leucoxene consists of iron oxide and titanium and is considered as the main source of titanium dioxide, titanium sponge and titanium ingots, used in important strategic industries such as manufacture of aircraft structures, missiles, submarines space vehicles .



► Analysis

(1)

S	Element	Results	Unit
1	TiO ₂	62.2	%
2	Fe ₂ O ₃	1.55	%
3	SiO ₂	15.0	%
4	CaO	4.30	%

(2)

S	Element	Results	Unit
1	TiO ₂	55.8	%
2	Fe ₂ O ₃	7.82	%
3	SiO ₂	14.3	%
4	CaO	5.50	%

(3)

S	Element	Results	Unit
1	TiO ₂	44.9	%
2	Fe ₂ O ₃	3.16	%
3	SiO ₂	22.1	%
4	CaO	7.5	%

► Rutile (TiO₂)

Rutile is considered as the main source in manufacturing of titanium dioxide and welding wires.



► Analysis

(1)

S	Element	Results	Unit
1	TiO ₂	93.6	%
2	Fe ₂ O ₃	0.87	%
3	ZrO ₂	0.66	%
4	SiO ₂	1.94	%

(2)

S	Element	Results	Unit
1	TiO ₂	83.2	%
2	Fe ₂ O ₃	0.58	%
3	ZrO ₂	7.37	%
4	SiO ₂	5.63	%

(3)

S	Element	Results	Unit
1	TiO ₂	77.2	%
2	Fe ₂ O ₃	0.62	%
3	ZrO ₂	10.3	%
4	SiO ₂	8.72	%

► Most important Black Sand Products

► Zircon Sand (ZrSiO_4)

Zircon is used in manufacturing ceramics, glass, furnace lining, dental filling, paint dryers, paper industry, sanitary ware, refractory, foundry and nuclear industry.



► Analysis

(1)

S	Element	Results	Unit
1	TiO ₂	0.24	%
2	Fe ₂ O ₃	0.14	%
3	ZrO ₂ +HfO ₂	65.38	%
4	SiO ₂	32.2	%
5	MgO	0.52	%
6	U	311	ppm
7	Th	396	ppm

(2)

S	Element	Results	Unit
1	TiO ₂	0.33	%
2	Fe ₂ O ₃	0.11	%
3	ZrO ₂ +HfO ₂	65.07	%
4	SiO ₂	32.7	%
5	MgO	0.63	%
6	U	323	ppm
7	Th	158	ppm

(3)

S	Element	Results	Unit
1	TiO ₂	0.71	%
2	Fe ₂ O ₃	0.17	%
3	ZrO ₂ +HfO ₂	64.49	%
4	SiO ₂	32.4	%
5	MgO	0.40	%
6	U	298	ppm
7	Th	324	ppm

► Most important Black Sand Products

► Garnet ($\text{FeAlSi}_3\text{O}_9$)

Garnet is used in manufacturing grinding stones, surface polishing, sandblasting, sandpaper, and is also used in the water jet cutting machine for marble and granite, used as a natural filtration media in water treatment plants and in industrial wastewater treatment and desalination plants, and used in Anti-Skid Surfaces & Road Construction.



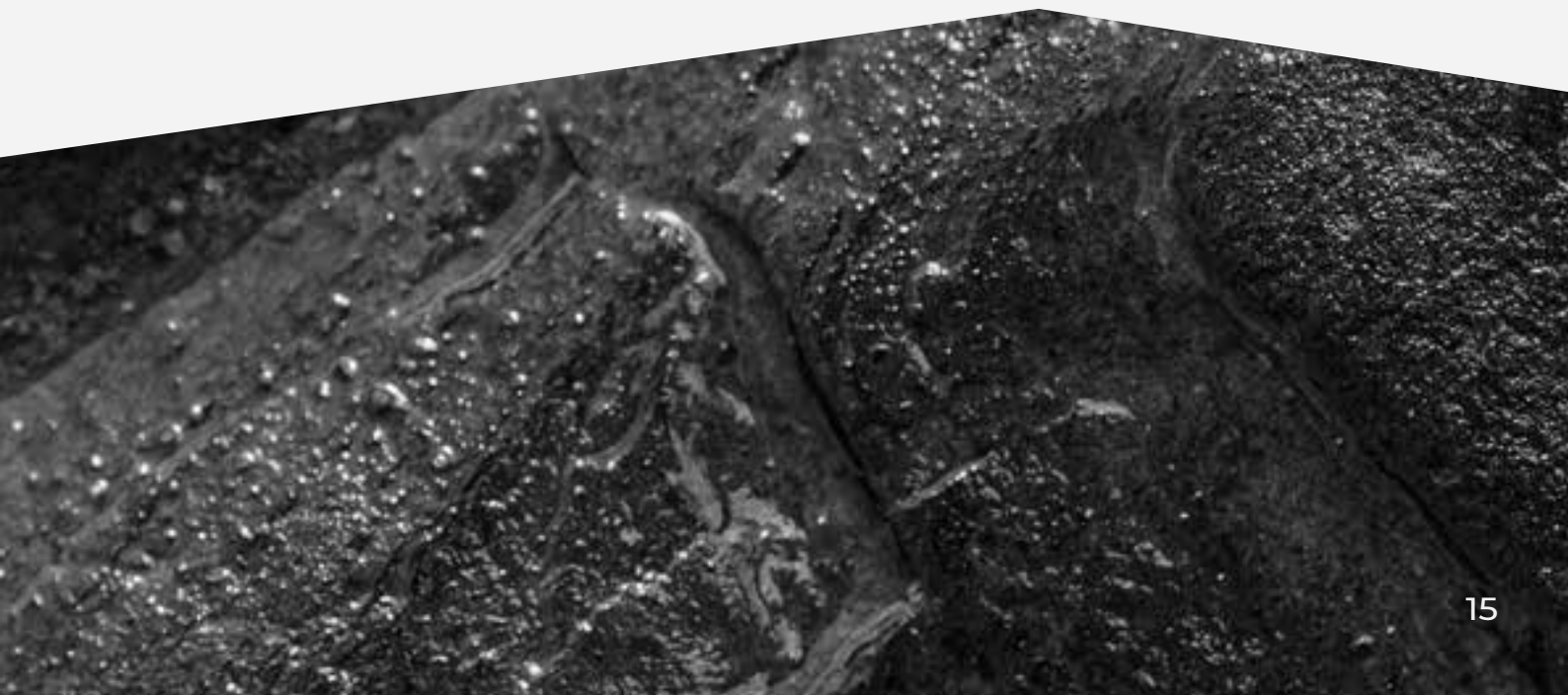
► Analysis

(1)

Screen size (μm)	Weight (gm)	Percentage (%)	Cumulative wt. Retained %	Cumulative wt. Passing %
425.0	0.4	0.3	0.3	99.7
300.0	9.4	7.0	7.3	92.7
250.0	21.0	15.7	23.0	77.0
212.0	31.2	23.3	46.3	53.7
180.0	41.4	30.9	77.2	22.8
150.0	17.2	12.8	90.1	9.9
-150.0	13.3	9.9	100.0	0.0
Total	133.9	100.0		

(2)

Screen size (μm)	Weight (gm)	Percentage (%)	Cumulative wt. Retained %	Cumulative wt. Passing %
425.0	0.1	0.0	0.0	100.0
300.0	0.2	0.1	0.2	99.8
250.0	0.6	0.3	0.5	99.5
212.0	1.0	0.5	1.0	99.0
180.0	28.0	15.3	16.3	83.7
150.0	109.0	59.5	75.8	24.2
-150.0	44.4	25	100	0.0
Total	183.3	100.0		



► Most important Black Sand Products

► Ultra fine Zircon (ZrSiO_4)

Ultra-fine zircon (ZrSiO_4) is a highly versatile material essential in advanced ceramics, refractories, electronics, coatings, biomedical, and aerospace industries. Its high durability, chemical resistance, and heat stability make it a critical component in cutting-edge technologies.



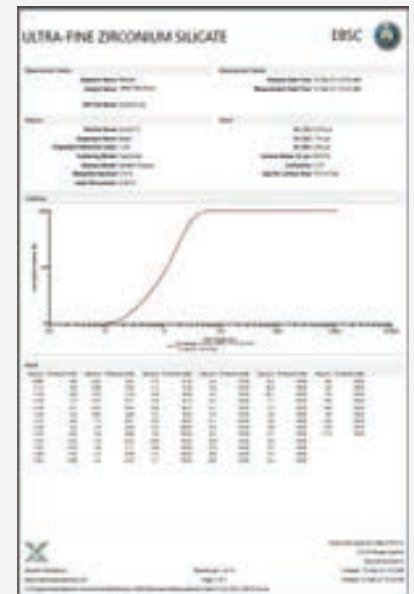
► Analysis

(1)

S	Element	Results	Unit
1	TiO ₂	0.18	%
2	Fe ₂ O ₃	0.11	%
3	ZrO ₂ +HfO ₂	66.01	%
4	SiO ₂	32.4	%
5	MgO	0.08	%
6	U	236	ppm
7	Th	215	ppm

(2)

S	Element	Results	Unit
1	TiO ₂	0.32	%
2	Fe ₂ O ₃	0.12	%
3	ZrO ₂ +HfO ₂	65.91	%
4	SiO ₂	32.3	%
5	MgO	0.07	%
6	U	262	ppm
7	Th	272	ppm



► packaging

We offer various packaging options for our products:

- **Rock Phosphate:** Available in bulk within a container, 50KG laminated Bags, in 1.25 -ton jumbo bags, or in bulk Vessels.
- **Ilmenite:** Available in bulk within a container, 50KG laminated Bags, in 1.25 -ton jumbo bags, or in bulk Vessels.
- **Rutile:** Packaged in 1.5-ton jumbo bags.
- **Leucoxene:** Packaged in 1.5-ton jumbo bags.
- **Magnetite:** Available in bulk within a container, or in loose bulk (for export via ships).
- **Garnet:** Packaged in 1.5-ton jumbo bags or 25 kg small packs.
- **Zircon Sand:** Available in 1.5-ton jumbo bags.
- **Ultra-Fine Zircon:** Packaged in 0.75-ton jumbo bags or 25 kg small packs.

► Delivery

We offer various delivery options for our products:

EXW, FCA, CFR, CIF, or FOB.

► Sustainability & Environmental Commitment

At Genesis Mining, environmental stewardship is a core part of our operational philosophy. We fully acknowledge our responsibility to protect the surrounding environment and local communities. That's why we adopt the most advanced, environmentally friendly technologies across all mining phases—from exploration to initial processing.

We are committed to implementing strict environmental standards to minimize our ecological footprint. This includes optimizing resource usage, reducing emissions and waste, and maintaining a sustainable balance between industrial growth and environmental conservation.

Our innovation- and sustainability-driven approach is not only an ethical commitment but also a fundamental part of our vision to build a responsible mining future that safeguards resources for future generations.



► Why Choose Genesis Mining?

- ✓ Innovative and unconventional mining model.
- ✓ Optimized resource utilization and value maximization.
- ✓ Highly qualified personnel and specialized expertise.
- ✓ Strategic partnerships with major industry players.
- ✓ Robust expansion and investment plans.
- ✓ Commitment to quality, sustainability, and continuous improvement.





► Extracting More Than Minerals, Extracting Value.

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