

PROFILE

2024





GEBAL
MINERALS LTD

About Us

Gebal Minerals Limited is a Ugandan based company, with a global reach in the minerals processing industry. Its objective is to add value to the world's abundant mineral wealth. With over **25** years of expertise, Gebal Minerals Limited specializes in producing high quality mineral products from limestone and kaolin. Every project we embark on is driven by our commitment to sustainability and innovation.

MINERAL SOURCES

We produce calcium carbonate for a wide range of applications from the high quality Limestone deposits in Uganda (Moroto), Kenya (Eldoret, Ortium) and Egypt (Suez, Minya) and soapstone from Kenya, from which we make kaolin.





Mission:

To promote a sustainable market through a quality based approach for our products across the globe.

Vision:

To continuously be the leading producer of high quality Limestone products.

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Our Applications

GEBAL MINERALS LIMITED deals in producing a variety of Calcium carbonate (CaCO_3) products which is widely used as a filler material in paper, paint, plastic, food, ceramic, cosmetic, medicine and other industries at a lower cost.

Coatings

Calcium carbonate is used as the main extender in coating. Fineness and particle-size distribution can contribute to the high opacity of coatings. Calcium carbonate reduces drying time in water-based systems, and offers improvements in weather resistance. The product used in making paints is of low oil and water absorption and has a high opacity.





Our Applications

Animal Feeding

- a) Poultry birds
- b) Cattle
- c) Sheep

Calcium carbonate produced by Gebal Minerals Limited acts as a calcium supplement in animal feed compounds. This helps in the formation of their skeletons and shells.



Agriculture

Calcium fertilisers are mainly made from calcium carbonate. The mineral helps supply adequate calcium to plants and stabilises the pH-value of the soil.



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Construction /Architecture

Specifications:

- a) Concrete wares (paving-stones,tubes, sewer tanks)
 - b) Ready-mixed concrete prefabricated elements
 - c) Pharmaceutical industries
- Calcium carbonate produced by Gebal Minerals Limited acts as a calcium supplement in animal feed compounds. This helps in the formation of their skeletons and shells

Calcium carbonate has found an innovative application in the concrete market used as a quality filler to improve the concrete density, prestability and durability. Its stable colour quality increases the aesthetics which make it very suitable for architectural applications. Can be used as medication, antacid as bulking agent and whitener.





Our Applications

Oil & Gas Drilling

Calcium carbonate serves as a bridging and weighing agent in drilling operations. Its primary function is to increase mud density and control fluid loss and density. Unlike barite, it is acid soluble, making it a preferred choice. Gebal offers a wide range of calcium carbonate in coarse, medium, and fine sizes for water treatment applications. It can be utilized in both oil-based and water-based fluid systems.



Industrial

- a) Paper mills
- b) Printing inks

It acts as a filler, coating pigment, and help produce papers with high whiteness, gloss and good printing properties. The brightness of minerals ranges from 92-95%.



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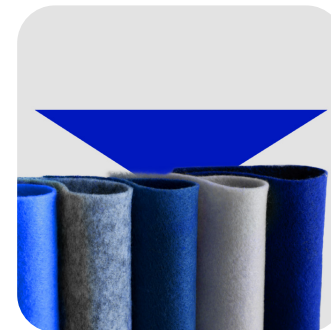
Nonwoven fabrics

Gebal's calcium carbonates offer tailored performance enhancements for Nonwovens & Fiber applications.

Our latest development in nonwoven and mineral technology is specifically engineered to reduce resin usage in production.

Experience the following benefits as a nonwoven manufacturer:

Lower bonding temperatures, improved opacity, increased softness, enhanced filtration performance, high air permeability, and cost savings. Nonwoven users also enjoy advantages such as better printability, increased strength, easier dust removal, good water repellency, and improved filtration performance.



Medical

Medical

- a) Tooth paste industries
- b) Cosmetic industries

We manufacture calcium carbonate suitable for use in dental and cosmetic industries, which is determined by grade, brightness, and particle size distribution.





Our Applications

Environment

- a) Flue gas desulphurisation
- b) (Pollution Control)
- c) Drinking water treatment
- d) Waste water treatment
- e) Forest and lake liming

As a natural product, calcium carbonate is perfect for environmental protection applications. It has a natural buffer-effect and works as a pollution-filter and neutralisation of acid rain in forests and lake liming. Calcium carbonate that is used in Flue gas desulphurisation to remove toxic gases before release to air is produced.

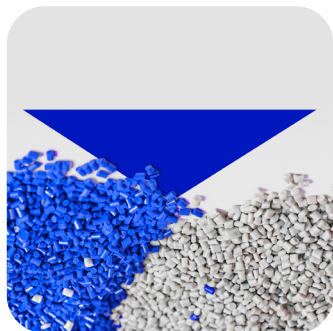


Fertilizers

Dolomitic lime, or calcium magnesium carbonate, is a mineral found in limestone crystals.

It is used in fertilizers to provide a balanced supply of calcium and magnesium to plants, promoting healthy growth and nutrient absorption.

Its application improves soil fertility, adjusts pH levels, and enhances overall plant productivity, making it an essential component in effective and sustainable farming practices.



Plastic and Polymer

- a) Plastic pipes
- b) Rubber
- c) Foamed latex carpet-backings
- d) Wires and cables
- e) Sealants and adhesives.

The most important mineral for compounding with polymers is calcium carbonate. It accounts for more than 60% weight of the filler and reinforcements market. When added as a filler, it helps reduce costs and extend petroleum based resources.



Others

- a) Glass
- b) Ceramics
- c) Black board chalk

As a natural mineral, calcium carbonate has a multitude of characteristics that make it an ideal raw material for widely differing uses. Diverse requirements such as low iron oxide content for the production of high-quality glasses. We provide calcium carbonate that are used as stabilisers to improve mechanical and physical properties of glass



Our Products

Calcium Carbonate Powder

Our emphasis is majorly in adding value to ground calcium carbonate for various purposes.

A variety of calcium carbonate powder is produced with brand names varying from GC2 to GC12; they differ due to particle size distribution of microns depending on the customer's preference. This product is used in various industries such as the construction industry for Paints, Adhesives, Oilfields, Glass Making Ceramics and Wood Processing.

It is also a critical component in the food and medical industry, industrial processes like in the making of Films and Sheets, Wires and Cables, Plastic Pipes and Joint Fillers, Rubber Processing and Printery Industry.



Chemical Properties

PARAMETER	RESULT
CaCO ₃	96.3% Min
Fe ₂ O ₃	0.18% Max
MgO	2.5% Max
Brightness	92-95%

Physical Properties

PARAMETER	RESULT
Shape	Semi angular
Streak	White
Specific gravity	2.7-2.9g/cc
Hardness	3Mohr
Melting point	Carbon dioxide evolves at a temperature above 400

Particle Size Distribution

PRODUCT	PERCENTAGE PASSING AT 50 (MICRONS)	PERCENTAGE PASSING AT 97 (MICRONS)
GC2	2.770	11.99
GC3	4.931	21.16
GC4	5.278	22.32
GC6	7.192	32.18
GC8	12.692	39.13
GC10	20.031	68.34

LIME

Two types of lime are manufactured: Quick and hydrated lime.

For Quick lime, calcium carbonate undergoes high temperatures to produce calcium oxide. Quick lime is mainly used in industry as a catalytic agent. Its also used in steel making, Air pollution control, paper industry, refining metals and making fiber glass.

For Hydrated lime, calcium oxide is mixed with a known amount of water to produce calcium hydroxide.

applied environmental purification as waste water treatment, agriculture to reduce soil acidity and construction as an essential ingredient in mortar, plaster etc.





Our Products

KAOLIN POWDER

This is manufactured from crushed soapstone obtained from high grade talc sources of Kenya. Its applied in soap making industry as a filler and pesticide industry as a carrier.

Kaolin powder is made in two forms:

Kaolin powder forms:

PRODUCT	GRADE A
Micron	32



Chemical properties

PARAMETER	RESULT
SiO ₂	43.51% Min
Al ₂ O ₃	37.76%
Fe ₂ O ₃	0.86%
CaO	0.34%
Hardness	1 Mohr
Specific gravity	2.16-2.68

TERRAZO (grits)

This is a natural calcium carbonate powder manufactured from dolomitic lime stone and produced under the most demanding specifications. Terrazzo is produced in two forms and these are, flooring and skirting. Products appear in different colours i.e. white, cream, red and black.





Our Products

Dolomitic lime (FERTILIZERS)

This is calcium magnesium carbonate. It's found from lime stone crystals, it is used in fertilizer to provide a balance supply of calcium and magnesium to plant, adjusts the ph, its application improves soil fertility, making it an essential component in effective and sustainable farming practices.



PH Ranges for Crops

No	Crop	PH Range
1	Maize	5.8-7.0
2	Sweet Potatoes	5.8-7.0
3	Beans	6.0-7.5
4	Bananas	6.0-7.0
5	Vegetables	6.5-7.0
6	Coffee	5.5-7.0

Why Choose Us?

Expertise: A team of experienced professionals with a deep understanding of mineral processing.


Innovation: Continuous improvement through technology and research.

Global Reach: Serving clients worldwide with reliable solutions.


Commitment to Sustainability: Minimizing environmental footprint and promoting responsible mining practices.



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