

MUKUMBI Dimension Stone Blue King “granite” and nepheline

Dear Markus,

Blue King is a sodalite syenite found in a 30 m thick band, cutting a cylindrical Silurian intrusion of a grey nepheline syenite (Mukumbi Syenite).

Mukumbi syenite outcrops on a 35-50 m high hill in NW province (east of Mukumbi village, around 120 Km West of Solwezi town.

In the same area outcrop other two nepheline syenite circular intrusions, that do not contain sodalite anyway.

Nepheline in Mukumbi and other two bodies are a lot (around 15-20 %), although the presence of small sodalite and cancrinite need to be tested because they could create some problems for the industrial use of nepheline.

Nepheline ($(\text{Na},\text{K})\text{AlSi}_3\text{O}_8$) is a very world demanded Industrial Mineral usually found in syenite rocks and Carbonatite sequences.

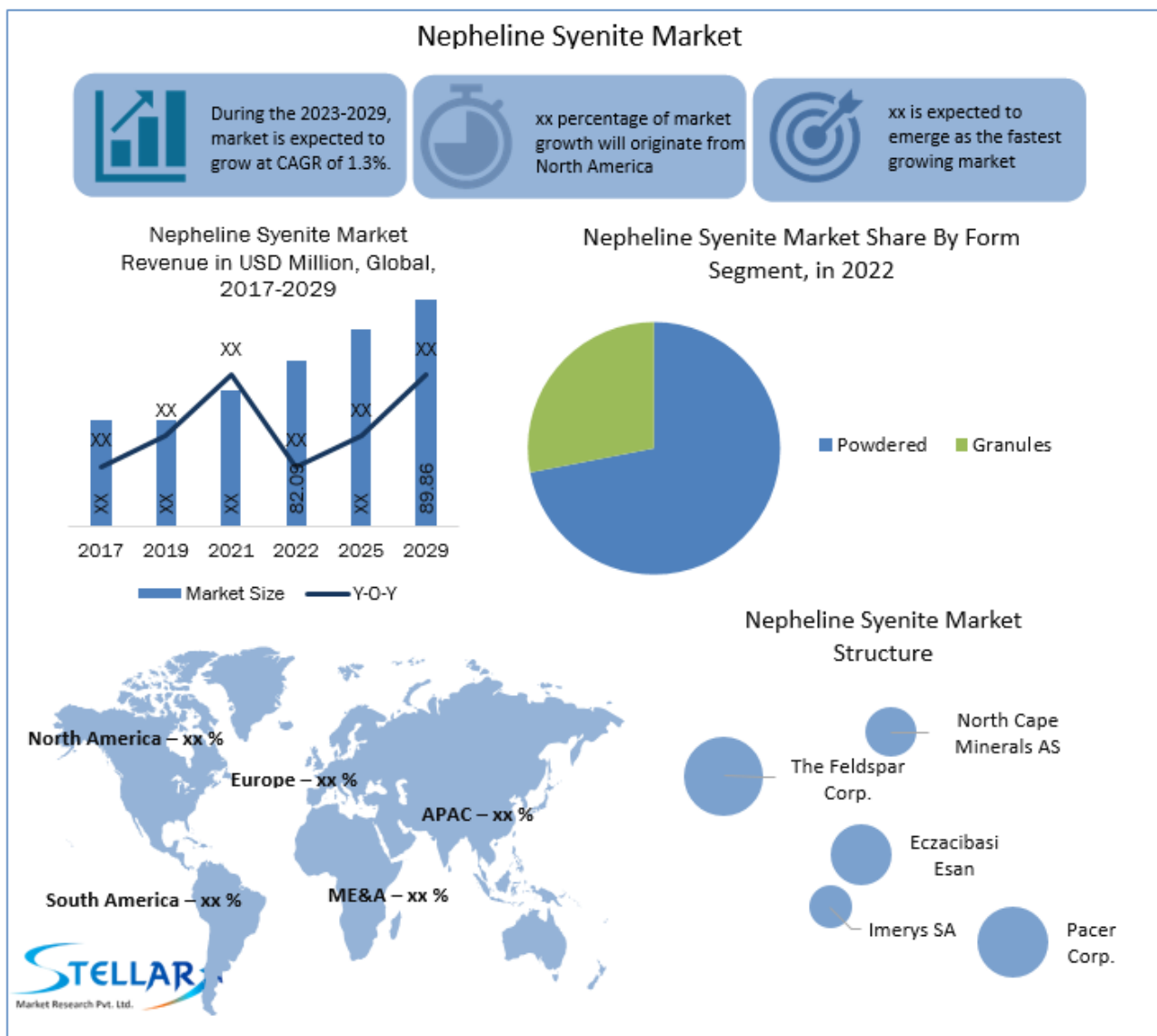
The rocks of the felspathoidal group (poor in Silica), when rich in felsic constituents like alkali feldspars and nepheline can be used in a variety of industries. On account of physical and chemical properties of nepheline the, rocks rich in this mineral can be used in the **manufacture of glass and ceramics**.

Besides these principal uses, finely ground nepheline can be used in heavy clay industries and as a mild polishing and grinding material. Moreover, the nepheline syenites that, contain considerable amount of apatite (see Blue King in Zambia) may be used as natural phosphatic manure.

Source (OEC)

Nepheline Syenite Market Definition:

Nepheline Syenite market is segmented by Form, Applications, and geography. Based on Form, the Nepheline Syenite market is segmented Powder into Granules. Based on the Applications, the Nepheline Syenite market is segmented under [Ceramic](#) Manufacturing, Glass Manufacturing, Functional Fillers, and Others. By geography, the market covers the following regions: North America, Europe, Asia-Pacific, South America, and Middle East & Africa. For each segment, the market sizing and forecasts have been done on based on value (in USD Billion/Million).



Nepheline Syenite Market Dynamics:

Nepheline syenite has a higher substance of potassium and sodium oxide. It decreases the embellishment temperature while giving outcomes with quartz in the glass hotter. It is prosperous in alumina. Business things conveyed utilizing this mineral are freed from clear

silica. In this way, when stood separated from feldspar, it is consumed in lesser totals. It is like manner helps in the lessening of energy use and chipping away at the chance of potential outcomes. Also, taking into account the low refractive record, it is used as an obvious filler in paints, coatings, plastics, adaptable, concrete, and sealants things. In coatings, it offers better flattening limit, further made pellet stream, ideal particle shape, and openness in mixing.

To achieve acceptable goals and cost decline in energy use, most of the glass things are reused. Glass packaging can be reused perpetually without influencing the quality. According to the U.S. Environment Protection Agency, in 2017, around 39% of alcoholic and soft drink bottles were reused in the U.S. As per The European Container Glass Federation, the glass packaging reusing rate is around 74% in European Union. Glass industry is a fundamental client across the world. In that capacity, the reusing of used glass things should gather assertion from the advancement of the general market during the forecasted period.

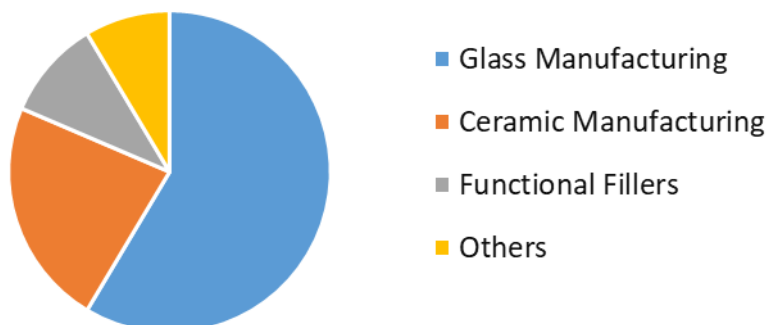
Extraordinary improvement of end-client undertakings in emerging economies like China, India, and Brazil among others, addresses expected open doorways for the nepheline syenite market movement. Driving overall affiliations are setting assets into these economies to cultivate their innovative limits and to fulfill the expanding necessities of buyers. For instance, in November 2019, driving glass creator, SCHOTT AG, started its new medication glass fabricating office in India with speculation of US\$ 23.5 million. Besides, the alliance is expecting to put an additional US\$ 29.2 million of every single office by 2020. Besides, in 2019, SCHOTT AG announced plans to place US\$ 9.7 million in Brazil for drug tubing Applicationion.

Nepheline Syenite Market Segment Analysis:

By Applications, It is widely used in glass manufacturing for the course of action of compartment glass, level glass, fiberglass, and other glass things. It gives immense alumina and a dissolvable base to the glass-creating process. Lower silica contents and a positive level of sodium oxide to potassium oxide attract it to be sensible for the glass business. What's more, it chops down the consistency of glass packs and gives fantastic handiness. Inferable from such benefits, glassmakers are taking on this mineral as a substitute for feldspar.

Ceramic manufacturing is expected to be the speediest making area in the general market during the forecasted period. Ceramic Application has an arrangement of uses in families, associations, and the current locale. Ceramic tiles and clean things together record for the greatest proposal watching out. Inferable from their stunning physical and delivered demand for these finished things is widening. Consequently, with the rising terminated industry, the demand for this syenite is expected to develop during the forecasted period.

Nepheline Syenite Market By Substrate Application (2022)



By Form, In powder coatings, nepheline syenite offers favored flattening feasibility compared with barium sulfate and calcium carbonate, and further made a pellet stream close to wollastonite and powder because of its low oil upkeep, the openness of blending, and ideal molecule shape. Somewhat harder than wollastonite, it likewise further makes scratch and scratched spot snags in mechanical get-togethers and office furniture applications. Also, as checked prior, the helping through properties of this material in external applications, like grass furniture or nursery gear, is perfect.

Nepheline Syenite Market Regional Insights:

Attributable to expanding demand from ceramic and glass creators, in 2021, North America overwhelmed the general market. The United States is an extraordinary transporter as well as a purchaser on the planet. Expanding demand for extraordinary glass things from food and drinks, and prescription and vehicle adventures drove makers to take on radiant alumina central focuses for glass fabricating. This as needs be filling demand for nepheline syenite in the United States. Canada is perhaps the best producer and driving exporter of this in the world. All through the long stretch, the greater part of the passed aggregate is traded on to the United States.

Europe is a significant provincial market with its greatest use in countries like Italy, Spain, Germany, and France. The U.K., France, Portugal, Sweden, and Finland are critical nepheline syenite resourcing markets in the region. Growing ceramics premium in the space should drive the European market over the forecasted period. The Asia Pacific should enroll enormous advancement rates as a result of growing revenue for ceramic Applications and glasses being developed, electronic sensors, auto, and clinical contraptions. Emerging economies in the district, for instance, China and India should address expected nepheline syenite demand. A great deal of nepheline syenite holds in India, China, and Tasmania should assist with showcasing individuals in the district in regards to regular substance acquisition. Growing ceramics Applications in China is supposed to help the Asia Pacific market with regard to Application

Nepheline Syenite Market Key Players Insights:

The market is characterized by the existence of a number of well-known firms. These companies control a large portion of the market, have a wide Application portfolio, and have a global presence. In addition, the market comprises small to mid-sized competitors that sell a limited variety of items, some of which are self-publishing organizations.

The market's major companies have a significant impact because most of them have extensive global networks through which they can reach their massive client bases. To drive revenue growth and strengthen their positions in the global market, key players in the market, particularly in North America and Europe, are focusing on strategic initiatives such as acquisitions, new collection launches, and partnerships.

The objective of the report is to present a comprehensive analysis of the Global Nepheline Syenite market to the stakeholders in the industry. The report provides trends that are most dominant in the Global Nepheline Syenite market and how these trends will influence new business investments and market development throughout the forecast period. The report also aids in the comprehension of the Global Nepheline Syenite Market dynamics and competitive structure of the market by analyzing market leaders, market followers, and regional players.

The qualitative and quantitative data provided in the Global Nepheline Syenite market report is to help understand which market segments, and regions are expected to grow at higher rates, factors affecting the market, and key opportunity areas, which will drive the industry and market growth through the forecast period. The report also includes the competitive landscape of key players in the industry along with their recent developments in the Global Nepheline Syenite market. The report studies factors such as company size, market share, market growth, revenue, Application volume, and profits of the key players in the Global Nepheline Syenite market.

Padova (Italy), 2nd October 20223

Marco COSI

A handwritten signature in black ink, appearing to read "Marco Gr". The signature is written in a cursive, slightly slanted style.



The report provides Porter's Five Force Model, which helps in designing the business strategies in the market. The report helps in identifying how many rivals exist, who they are, and how their Application quality is in the Global Nepheline Syenite market. The report also analyses if the Global Nepheline Syenite market is easy for a new player to gain a foothold in the market, do they enter or exit the market regularly, if the market is dominated by a few players, etc.

The report also includes a PESTEL Analysis, which aids in the development of company strategies. Political variables help in figuring out how much a government can influence the Global Nepheline Syenite market. Economic variables aid in the analysis of economic performance drivers that have an impact on the Global Nepheline Syenite market. Understanding the impact of the surrounding environment and the influence of environmental concerns on the Global Nepheline Syenite market is aided by legal factors.

Nepheline Syenite Market Scope:

Nepheline Syenite Market Scope	
Market Size in 2022	USD 82.09 Mn.
Market Size in 2029	USD 109.86 Mn.

CAGR (2023-2029)	1.3%
Historic Data	2017-2021
Base Year	2022
Forecast Period	2023-2029
Segment Scope	By Application <ul style="list-style-type: none"> • Glass Manufacturing • Ceramic Manufacturing • Functional Fillers • Others
	By Form <ul style="list-style-type: none"> • Powdered • Granules
Regional Scope	North America- United States, Canada, and Mexico Europe – UK, France, Germany, Italy, Spain, Sweden, Austria, and Rest of Europe Asia Pacific – China, India, Japan, South Korea, Australia, ASEAN, Rest of APAC Middle East and Africa - South Africa, GCC, Egypt, Nigeria, Rest of the Middle East and Africa South America – Brazil, Argentina, Rest of South America

Nepheline Syenite Market Key Players:

- Apatit Application Association
- North Cape Minerals AS
- The Feldspar Corp.
- Eczacibasi Esan
- Imerys SA
- Gruppo Minerali Maffei SpA
- Monto Minerals Ltd.
- Pacer Corp.
- Sibelco Nordic AS
- Fineton Industrial Minerals Ltd.