

Pyrophyllite Powder Market - Growth, Trends, Covid -19 Impact, and Forecasts (2023 - 2028)

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Report description:

During the forecast period, the market for pyrophyllite powder is anticipated to grow at a CAGR of over 7%.

The pyrophyllite powder market was significantly impacted by the COVID-19 pandemic. The pandemic has caused a disruption in the supply chain, resulting in a decrease in pyrophyllite powder production and sales. Furthermore, the closure of factories and other manufacturing facilities has reduced the availability of raw materials, resulting in a decrease in pyrophyllite powder production. However, the market recovered in 2021 with the gradual reopening of factories and other manufacturing facilities.

The price of pyrophyllite powder depends on the amount of alumina and impurities in the powder. Alumina content is a good indicator of product quality. However, it may vary depending on the market demands. Pyrophyllite powder with less than 1% iron impurity is required for the glass and paper industries, while pyrophyllite powder with no silica impurities is required for the ceramic sector.

Key Highlights

Over the short term, pyrophyllite is growing in demand as a refractory substance because of its thermal stability and strength at high temperatures in the metal fabrication and furnace lining sectors.

However, the limited availability of raw materials, high production costs, and stringent environmental regulations are anticipated to constrain the market.

Nevertheless, the increasing demand from the cosmetics industry presents a future prospect for market expansion.

The Asia-Pacific region is likely to dominate the market during the forecast period.

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Pyrophyllite Powder Market Trends

Increase in Demand from Metal Manufacturing and Ceramic industries

The casting and metal manufacturing industries demand pyrophyllite considerably. Pyrophyllite has unique qualities, such as low thermal conductivity and reversible thermal expansion, that make it an outstanding material for use in foundry coatings. Foundry coatings are akin to paints and were created to resist high temperatures during the metal casting process.

An increase in the demand for cast metal components in the automotive, iron and steel, and OEM industries is expected to fuel the market for pyrophyllite foundry coatings.

As a fluxing agent, pyrophyllite powder is used in the manufacturing of aluminum and steel. It aids in lowering a metal's melting point and increasing its fluidity. Pyrophyllite powder also aids in lowering the quantity of dross produced during melting, which might result in flaws in the final product. It can also be used to lower the energy needed to melt metal, improving the effectiveness of the process.

Pyrophyllite powder is increasingly used in metallurgical processes due to the increased global production of crude steel and aluminum. However, it is anticipated that the market would be unpredictable due to erratic trends in the production of these metals. According to the World Steel Association, the production of crude steel was 1,951.24 million tons in 2021.

According to the International Aluminum Institute, there will be 67.09 million metric tons of aluminum produced by the end of 2021, representing a 2.7% increase over the previous year. This is due to the rising aluminum demand in the automotive, construction, and packaging industries. The increased use of aluminum in renewable energy projects is also contributing to the increase in production. The ceramic industry uses pyrophyllite powder to improve the mechanical qualities of ceramics.

Additionally, improving chemical resistance and crack resistance.

In the ceramics industry, pyrophyllite can take the place of feldspar and quartz. Pyrophyllite, as opposed to quartz and other goods, allows for the achievement of fusion temperature during the production of ceramics at lower temperatures.

Therefore, based on the aforementioned factors, it is anticipated that as the production of important metals and alloys like steel and aluminum rises, pyrophyllite powder is expected to drive the market during the forecast period.

Asia-Pacific Region to Dominate the Market

The Asia-Pacific pyrophyllite powder market is expected to grow significantly. The growing demand for pyrophyllite powder in various end-user industries, such as paper, rubber, plastics, metal, and ceramics, is driving market growth.

According to the World Steel Association AISBL, China is the world's largest steel manufacturing country, accounting for 52.9% of global steel production. China produced 1.032 billion tons of crude steel by the end of 2021, followed by India, which produced 118.2 million tons, accounting for 6.1% of total production in 2021.

China is the largest country in the world that produces ceramic tiles. Ceramic manufacturers are being compelled to enhance their manufacturing practices and product quality by the intense competition in the domestic and international markets.

The rubber, plastics, and paper industries are witnessing an increase in the demand for fillers. Rubber and plastic industries both utilize pyrophyllite powder as a filler. Mineral fillers are added to rubber and plastic to enhance the physical characteristics, such as strength, and to lessen shrinkage and breaking.

In the paper industry, pyrophyllite powder is also utilized as a filler to cut manufacturing costs while improving the smoothness and print quality of the paper. The demand for pyrophyllite will be impacted by the expanding population and the rise in the paper, plastic, and rubber industries.

India is a major exporter of paper and pulp products in the world. According to the Indian Paper Manufacturers Association, India exported 2.8 million tons of paper, paperboard, and newsprint in 2021.

The market for pyrophyllite in the Asia-Pacific region is anticipated to expand significantly over the study period as a result of the

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aforementioned causes.

Pyrophyllite Powder Market Competitor Analysis

The global pyrophyllite market is partially consolidated, with only a few major players dominating the market. Some of the major companies are Trinity Resources Ltd., Khajuraho Minerals Pvt. Ltd, Shibang Industry & Technology Group Co. Ltd, Vanderbilt Minerals, Wonderstone Ltd Company, and others.

Additional Benefits:

The market estimate (ME) sheet in Excel format
3 months of analyst support

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