

Global Sulfur Market Outlook to 2027

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Abstracts

Sulfur is one of the most reactive elements. It is tasteless, odorless, colorless, brittle, pale yellow in color, a poor conductor of electricity, and insoluble in water. It is the tenth most abundant element in the universe. According to BlueQuark Research & Consulting, the global Sulfur market is expected to witness a significant growth rate during the forecasted period. Factors like increasing the use of Sulfur in the Fertilizer Industry, Sulfur is one of the essential plant nutrients to achieve better yields, and more nutritious food crops are expected to drive the global Sulfur Market. Further, Sulfur is used in the Chemical Processes to manufacture Carbon Disulphide, sodium thiosulphate, gun powder, matches, and fireworks is projected to drive the Global Sulfur Market. Furthermore, Sulfur is used in the Vulcanization of rubber, as natural rubber is soft and sticky; when heated with Sulfur, it makes complex, non-sticky and elastic is expected to drive the Global Sulfur Market. However, extraction of Sulfur mining is costly, and Sulfur derivatives such as sulfur dioxide and hydrogen sulfide have harmful effects on the environment and humans, and animals. Frequent exposure to Sulfur may cause heart damage, effects on eyesight, suffocation, damage to the immune system is expected to hinder the future market growth of Sulfur.

Sulfur is used to manufacture fertilizers such as fungicides and insecticides, and it is also used in chemicals such as carbon disulfide, sodium thiosulphate, gun powder, matches, and fireworks. It is used in the Rubber vulcanization process and medicines and haircare products.

The Fertilizer Industry is the most primary and vital consumer of Sulfur and is estimated to drive the global demand for Sulfur. About 90% of the Sulfur extracted is used to make Sulfur dioxide, then converted to Sulfuric acid used in the production of phosphate fertilizers, a crucial component in food production. The use of Sulfur in the fertilizers as a soil nutrient, mainly when there is a deficiency of sulfur in the soil, makes the industry's market grow. According to FPT'S Fertilizer Industry, in 2020, global fertilizer

demand is estimated at 191.4 million tons of nutrients, increasing 1.5% compared to 2019, which is equivalent to an increase of 2.9 million tons. Elemental Sulfur based fertilizers are the most concentrated Sulfur carrier, and modern technologies increased their use in direct applications or additives to nitrogen, phosphorous, and potassium fertilizers. Liquid Sulfur fertilizers such as ammonium thiosulphate, potassium thiosulphate, and calcium thiosulphate are famous as the source of Sulfur owing to their solubility and compatibility with various ions, are projected to drive the demand for the Sulfur market. Thus, the mentioned factors have made the Fertilizer industry a vital segment of growth for the Global market of Sulfur.

Some of the market's key players are PJSC Gazprom, China Petroleum & Chemical Corporation, Tengizchevroil LLP, Saudi Aramco Company, Abu Dhabi National Oil Company, Ohio Sulfur Mining Company, among others.

The Asia Pacific region is on its way to becoming the global leader in the production and consumption of Sulfur, with most of the consumption in populated countries like China and India. China is the leading worldwide producer and producer of pyrites (source) which accounts for more than 50% of Sulfur in all forms. There is an increase in the use of Sulfur in the Fertilizer Industry, due to increasing crop prices have resulted in increasing demand for fertilizers, expected to drive the global Sulfur market. Sulfur is widely used in Chemical processing because its consumption is regarded as a reliable indicator of industrial activity and the state of the national economy, thus adding to the Sulfur market demand in the region. Sulfur is used to carry out the vulcanization process of rubber. It reacts directly with methane to generate carbon sulfide, which is used to manufacture rayon and cellophane, driving the demand for the Global Sulfur Industry. Due to the growing population and urbanization, the demand for Sulfur-containing ointments for curing skin diseases and hair products to give specific shapes to the hair are also increasing, thus driving the Global Sulfur Industry. Therefore, factors like these have made the Asia Pacific region a vital area for the development of Sulfur.

In November 2021, Researchers from Inha University reported the first example of sulfur backbone polymer-based triboelectric nanogenerator (TENG), an energy-harvesting device that converts mechanical energy into electricity.

In October 2021, Nuberg EPC won two sulphuric acid plants projects in Gamasa City, Egypt, and Oromia, Ethiopia.

Global Sulfur Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Sulfur

market by segmenting based on the By Allotropy (Orthorhombic, Monoclinic, Amorphous), By End-User (Fertilizer, Chemical Processing, Rubber Vulcanization, Personal Care, Others), and Geography (Asia-Pacific, North America, Europe, South America, and Middle-East and Africa). The report examines the market drivers and restraints and the impact of Covid-19 on the market growth in detail. The study covers and includes emerging market trends, developments, opportunities, and challenges in the industry. This report also covers extensively researched competitive landscape sections with prominent companies and profiles, including their market shares and projects.

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