

Global Copper Sulfate Market Outlook to 2027

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Abstracts

Copper sulfate or cupric sulfate (CuSO_4) is a salt of copper that exists in varying amounts of hydration, found as bright blue or green colored crystals, called pentahydrate ($\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$), and it has a wide range of applications and used for ages for manufacturing a variety of products ranging from fungicides to paints. According to BlueQuark Research & Consulting, the global Copper Sulphate market is expected to witness a high growth rate during the forecasted period. Factors such as the increasing demand for copper sulfate in the agricultural industry, primarily in the manufacture of fungicides and as an additive in animal feed, helps in the proper functioning of their body. Further, in the metal and electrical industry, copper sulfate is the most preferred electrolyte for applications such as refining, electroplating and is also used to develop batteries. Furthermore, the increasing demand and application to numerous industries are expected to drive the copper sulfate market in the forecasted period. However, if consumed, the side effects seen in humans could restrain the growth of the copper sulfate market in the future.

Copper Sulphate is widely used in many end-use industries such as agriculture, mining, metallurgy, and healthcare. Also, it finds its application in adhesives, chemical, building, and textile industries, where it can be used to manufacture products such as wood preservatives, insecticides, and paints. The copper sulfate is also employed for refining, electroplating, and developing batteries and can be used as an electrolyte in copper refining.

The agricultural industry has many different applications of copper sulfate and is driving the copper sulfate market. The estimated world's consumption of copper sulfate is around 200,000 tons per annum, with a majority being used in the agricultural industry. Copper sulfate is worn as a raw material to manufacture fungicides and insecticides used in farming to improve crop output. The increasing population has increased the food demand globally, due to which farmers are switching to efficient farming

techniques. The rising need for fungicides to kill parasitic fungi or their spores for a better crop yield is increasing, thus increasing the copper sulfate demand. When copper sulfate is dissolved in water with lime (Bordeaux Mixture), it acts as a protective fungicide that protects plants during seed treatment before they grow. Paris gas, produced from copper sulfate, is an insecticide used as a raw material for producing Chromated copper arsenate, a widely used wood preservative. It provides the wood with insecticidal, fungicidal, and UV light reflecting characteristics. Another vital application of copper sulfate is an analytical reagent, which is further used to prepare several reagents like Fehling's solution, Benedict's solution, and Biuret reagent. The demand for copper sulfate as an additive in animal feed increases as copper is essential for proper body processes. Although, copper sulfate is moderately toxic when exposed for a more extended period. As the majority of the copper sulfate is produced from scrap copper, it comprises toxins. Toxins such as Dioxin are no longer offered by most consumer countries. Copper sulfate is also used to correct the copper deficiency in soils. This process also balances the copper deficiency in animals when they graze on them. Pigs and broiler chickens in the animal husbandry sector are also fed copper sulfate in their diet, stimulating appetite and increasing growth. These agricultural and animal husbandry advancements are all set to propel the future market of copper sulfate.

The global ammonium thiocyanate market was found to be fragmented. Some of the market's key players are WEGO Chemical & Mineral Corp, Allan Chemical Corporation, NOAH Technologies Corporation, and AUTOTECH.

The Asia Pacific region is expected to be a leader in producing and consuming copper sulfate in the forecasted year. The increasing population has driven the food industry, which has increased the demand for fungicides and insecticides. The estimated use of fungicides in the region stood at 116,327 tons in 2018 and is expected to increase. Aside from the agricultural industry, it is also used in the chemical industry as a source of copper, as a catalyst, and for the purification of gases. Copper sulfate is used as an adhesive in producing paints and glues and is also used as an essential reagent/catalyst in the leather and textile industry. Sudden development in the use of electrical and electronic products requires a massive amount of copper for electrical conduction. It is frequently used as an electrolyte in the metal and electrical industries for refining, electroplating, and battery development. The rise in the need for energy storage devices in small-scale and large-scale electronic projects is increasing the demand for copper sulfate across the globe. An increase in investments by developing countries for various infrastructures that require copper sulfate in various activities propels the market growth. The rise in need for material resources has increased the

mining sector, where copper sulfate is worn as a flotation reagent in concentration ores and as raw materials for copper naphthenate and further copper compounds, which are used as anti-fouling agents in the paint industry. The animal husbandry industry is also witnessing a surge in demand in emerging countries like China, India, Japan, and Indonesia. In India, over 4,000 tons of poultry animals were slaughtered in 2018-19 due to the country's increasing demand. The demand has been on the rise ever since. Copper sulfate is used as an electrolyte in many metallurgical processes. The APAC region could rise as a significant market opportunity for copper sulfate in the forecasted period.

The CAMPCO Ltd, an Indian Copper Sulphate Manufacturer, sold around 171 tonnes of copper sulfate during 2019-20 and is now subsidizing rates for copper sulfate for its growing members in 2021.

Global Copper Sulphate Market report provides deep insight into the Industrial market's current and future state across various regions. The study comprehensively analyses the Copper Sulfate market by segmenting based on the Grade (Technical Grade, Feed Grade), End-User Industry (Agriculture, Metallurgy, Chemicals, Public Healthcare, 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 the covid 19 outbreak 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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