

Water Treatment Chemicals Market For Geothermal Power Size, Share & Trends Analysis Report By Product (Scale Control, Corrosion Control), By Application (Production & Reinjection Wells, Flash Process), By Region, And Segment Forecasts, 2024 - 2030

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Abstracts

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Water Treatment Chemicals Market For Geothermal Power Growth & Trends

The global water treatment chemicals market for geothermal power size is anticipated to reach USD 11.12 million by 2030, growing at a CAGR of 3.5% from 2024 to 2030, according to a new report by Grand View Research, Inc. The growth in utilization of scale control agents can be attributed to their ability to increase efficiency of power generation.

Geothermal water contains many scale and corrosion-forming chemical components such as silica, calcium, potassium, sulfate, hydrogen sulfate, fluoride magnesium, and chloride. It also contains variable concentrations of gases, such as carbon dioxide and nitrogen, as well as smaller quantities of ammonia, boron, mercury, and radon. If this water is left untreated, the mineral-rich geothermal water can cause scaling issues.

Corrosion inhibitors and scale inhibitors are used in industrial water treatment. They are used in geothermal applications. Scale inhibitors limit the precipitation of the scale-forming salts, including calcium carbonate, calcium sulfate, and calcium phosphate. Corrosion inhibitors prevent the geothermal machinery from rusting by preventing the

formation of a layer of ferrous compounds over the machinery surfaces. The cost of raw materials used to produce water treatment chemicals for geothermal power, like polyphosphates, azoles, aluminum silicate/metal silicate, phosphonates, polyacrylate, and polymaleic acid can significantly affect product prices. Fluctuations in the prices of these raw materials owing to their supply-demand dynamics, availability, or production cost variations can affect the overall prices of water treatment chemicals for geothermal power.

Water Treatment Chemicals Market For Geothermal Power Report Highlights

The scale control segment dominated the market in 2023 and accounted for a revenue share of 63.4%. The growth of this segment can be attributed to the potential risk of mineral deposition and scaling, resulting in a rising demand for scale control in geothermal power plants.

The flash process segment dominated the water treatment chemicals market for geothermal power in 2023 and accounted for a revenue share of 46.6%. The growth of this segment can be attributed to the surging number of geothermal power projects based on flash process worldwide owing to their economic benefits.

Asia Pacific dominated the water treatment chemicals market for geothermal power by accounting for a revenue share of 36.8% of the market in 2023. The growth of the market in this region can be attributed to the rise in demand for water treatment chemicals in geothermal power plants in countries such as Indonesia, Japan, and Philippines.

In May 2022, Lonza announced the launch of its product line, Geogard, as the latest range of innovation for geothermal applications. The use of these geogard technologies is associated with important benefits for geothermal operators. The company, with the introduction of these products, can improve the efficiency of the plant and power recovery by inhibiting scaling deposition. In addition, costly shutdowns for mechanical cleaning can be avoided, leading to significant money savings.

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