

Calcium Chloride Market - Forecasts from 2021 to 2026

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Abstracts

The calcium chloride market is estimated to grow at a CAGR of 2.74% to reach a market size of US\$1,491.462 million in 2026 from US\$1,234.341 million in 2019. Calcium chloride is a versatile chemical that is utilized in many industries and has wide applications that include animal feed, chemical heating, dust control, and de-icing. It is defined as the salt created from the ionic bond between calcium and chlorine. The demand for this salt is high in North America and Europe and is fast growing in the Asia Pacific region as it is widely used on the highways and the roads as the de-icing agent due to its hygroscopic nature. This inorganic compound occurs in the form of beads and its color range from white to off-white. It has a wide range of applications in the industries such as rubber, medicine, paint, transportation, and agriculture among others. Further, the burgeoning consumption of this is witnessed in the areas such as construction, automotive, and mining which is boosting the market growth of calcium chloride. The rise in the automotive and construction industries in both developing and developed regions is bolstering the market demand for calcium chloride during the forecasted period. The deliquescent nature of calcium chloride makes it vital as a maintenance material for haul roads in mining applications. The increasing demand for calcium chloride globally is encouraging the market players to launch new products, increase expenditure on the general industry. Market players of the calcium chloride include Occidental Petroleum Corporation, TETRA Technologies, Inc. Solvay, Tiger Calcium, Calcium Chloride, Nedmag B.V., Zirax Limited, Sanmar Group, Auro Chemical, and Sulaksh Chemicals.

However, the excess consumption of calcium chloride affects the body such as muscle spasms, irregular heartbeats, and kidney stones which are expected to hamper the market growth of the calcium chloride in the forecasted period. Further, calcium chloride used to ice melt is not considered environmentally safe as it deposits excessive chloride

levels and heavy metal consumption. These factors are anticipated to restrain the market growth of calcium chloride in the forecasted period. For instance, a lawsuit was filed against the city of Edmonton, Canada in September 2020 as the calcium chloride used for de-icing, damaged the garage of the citizen by weakening the concrete of the garage. This caused commotion regarding the use of calcium chloride for de-icing in the city. Thus such incidents cause concern for the global calcium chloride market.

Market Drivers.

The calcium chloride market drivers include the burgeoning use of this salt across the industries and the high demand for calcium chloride in the regions with heavy snowfall. The increasing applications of the potential applications of calcium chloride in the industries such as animal sterilization, construction, water treatment, and construction is expected to create opportunities for the player of the market. Calcium chloride has wide applications in the food industry such as in beer brewing, cheese production, and firming agent in canned vegetables and fruits. Also, the increasing population and disposable income are further boosting the market demand of the food industry thereby leading to the increase in the demand for calcium chloride. The maturing existing hydrocarbon resources and the depleting conventional gas resources are shifting the preference towards the unexpected reservoirs of gas and oil to meet the increasing demand. This is leading to an increase in the consumption of calcium chloride as it is an essential raw material used in drilling fluids. Furthermore, the calcium chloride demand is increasing along with the increase in the number of constructions in the recent years of the highways, pools in individual homes, roads, shopping arcades. Thus, the growth in construction activities has increased the demand for calcium chloride as calcium chloride is widely used in the construction area as a dust controlling agent.

In the forecasted period it is expected that calcium chloride demand will increase globally. The intense competition, increase of the downstream industry fields expenditures, growing expenditure on the general industry, new launch of the products, and the retrofitting and renovation of the old technology are the driving factors of the calcium chloride market in the forecasted period.

Segment Analysis.

The global calcium chloride market by product type is segmented as liquid, hydrated solid, and anhydrous solid. The liquid segment is majorly used as the refrigeration fluids, on roads as dust palliative, and at ice skating rinks. Whereas, anhydrous solid

and hydrated solid is being used as a de-icing agent on roads, sidewalks, and pavements in the winter season as they depress the freezing point of water and prevent ice formation.

By grade, the global calcium chloride market is classified as food grade, industrial grade, agriculture grade, and pharmaceutical grade.

Whereas by form the global calcium chloride is segmented as flakes, pellets, powder, and solution.

By raw material, the global calcium chloride market is segmented as natural brine, Solvay process (by-Product), limestone and HCL, and others.

The global calcium chloride market based on applications is segmented as de-icing, dust control, fluid drilling, water waste treatment, concrete additive, industrial processing, and others. De-icing is dominating the market of calcium chloride-based applications as the calcium chloride used for de-icing melts faster in comparison to other de-icers such as sand, sodium chloride, and abrasives.

Regional Analysis

Based on region, the global calcium chloride market is segmented as North America, South America, Middle East & Africa, Europe, and Asia Pacific. North America is dominating the market and is expected to hold a prominent share of the market during the forecasted period. The dominance is majorly due to the rise in demand from oil and gas and the expansion in the applications of calcium chloride in de-icing and dust control applications this is boosting the demand for calcium chloride in the manufacturing of different concentrations of calcium chloride. North America will witness steady growth after the outbreak of Covid-19 due to its impact on chemical production and other industry verticals. Whereas, Asia Pacific region is expected to be the fastest-growing due to the expanding oil & gas, food processing, pharmaceutical, and chemical industry in the major industries.

COVID-19 Impact.

The outbreak of Covid-19 has impacted every industry including manufacturing and process industries such as calcium chloride, oil & gas, and logistics. The lockdown following the covid-19 had disrupted every industry including construction, food processing, and agriculture which affected the demand for calcium chloride. Further, the

disturbed distribution channel impacted the demand and supply of calcium chloride. These industries have witnessed slack in demand thus the pandemic has negatively impacted the global calcium chloride market. However, the market of calcium chloride is expected to witness growth in the forecasted period as due to the rise in the global population and urbanization is leading to an increase in the market demand from the construction, food processing, and agriculture industry. Thus, it is expected that the global calcium chloride market will grow steadily during the forecasted period.

Segmentation:

By Product Type

Liquid

Hydrated Solid

Anhydrous Solid

By Grade

Food Grade

Industrial Grade

Agriculture Grade

Pharmaceutical Grade

By Form

Flakes

Pellets

Powder

Solution

By Raw Material

Natural Brine

Solvay Process (by-Product)

Limestone and HCL

Others

By Application

De-icing

Dust Control

Fluid Drilling

Water Waste Treatment

Concrete Additive

Industrial Processing

Others

By Geography

North America

USA

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

Germany

Spain

United Kingdom

France

Others

Middle East and Africa

Saudi Arabia

South Africa

Others

Asia Pacific

China

Japan

Australia

India

Others

*Note: The report will be dispatched in 3 business days.

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