

Ion Exchange Resins Market by Type (Cationic Resins, Anionic Resins), Application (Water, Non-Water), End-Use Industry (Power, Chemical & Petrochemical, Pharmaceutical, Food & Beverage), and Region - Global Forecast to 2025

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Abstracts

“The global ion exchange resins market size is projected to register a CAGR of 4.2%, in terms of value, between 2020 and 2025.”

The global ion exchange resins market size is projected to grow from USD 1.8 billion in 2020 to USD 2.2 billion by 2025, at a CAGR of 4.2%, between 2020 and 2025.

Urbanization in APAC, increasing demand for nuclear electricity generation in emerging economies, and stringent environmental regulations are the major growth drivers of the global ion exchange resins market. Pharmaceutical, food & beverage, and electrical & electronics industries are projected to register the highest growth in the next five years, thereby boosting market growth. Increasing population, growing urbanization and evolving manufacturing sector, need for water conservation, and stringent regulations are the major factors that are projected to drive the ion exchange resins market during the forecast period. Furthermore, volatility in raw material prices and increasing competition from reverse osmosis process are the factors restraining the market growth.

“The other types segment is expected to register the highest CAGR of the overall ion exchange resins market during the forecast period.”

Chelation resins and adsorbent resins are included in the others segment. Chelation resins are commonly used to remove metals, such as lead, copper, and zinc, in the metal processing industries. Adsorbent resins are mainly used in industrial applications to modify physio-chemical characteristics of liquids. These resins are suitable for

adsorption of specific organic molecules from food and nonfood liquids. They have several applications in the food industry concerned with the removal of undesired organic substances and recovery of valuable organic substances.

“The ion exchange resins market in the power industry is projected to account for the largest share during the forecast period.”

The power industry has witnessed significant growth over the past few years, which is attributed to the growing demand for electricity from various countries. The governments, worldwide, are encouraging various industries, including food & beverage, chemical, and primary metal to reduce their carbon footprints and switch to renewable and nuclear energy sources. Nuclear energy is the second-fastest-growing source of energy. Various nuclear-related projects are estimated to be executed in the next 10 years across the globe, thereby, directly boosting the ion exchange resins market in the power industry. In addition, China and India are also increasing their presence in the nuclear power generation segment with the installation of various nuclear energy-based power plants. These trends are expected to boost the demand for ion exchange resins in power end-use industry during the forecast period.

“APAC ion exchange resins market is projected to register the highest CAGR during the forecast period.”

The APAC market is segmented into China, India, Japan, South Korea, Australia, Taiwan, Thailand, Indonesia, and Rest of APAC. China is the market leader in APAC for ion exchange resins. Major fuel sources in the country are fossils and renewables. High growth in electricity demand has given rise to power shortages, while the dependency on fossil fuels has led to increased air pollution. Hence, the government is planning to reduce its dependence on fossil fuels and hydro resources leading to the rise in the demand for nuclear energy, which, in turn, will boost the market of ion exchange resins in the country. Furthermore, with the growing nuclear industry, there has been a scarcity of freshwater, which is leading to high demand for ion exchange resins in the country.

In-depth interviews were conducted with Chief Executive Officers (CEOs), marketing directors, other innovation and technology directors, and executives from various key organizations operating in the ion exchange resins market, and information was gathered from secondary research to determine and verify the market size of several segments and subsegments.

By Company Type: Tier 1 – 60%, Tier 2 – 30%, and Tier 3 – 10%

By Designation: C Level – 30%, D Level – 60%, and Others – 10%

By Region: Europe – 20%, North America – 35%, APAC – 30%, South America- 5%, and the Middle East & Africa – 10%

The key companies profiled in this report are DuPont de Nemours, Inc., (US), Lanxess (Germany), Purolite Corporation (US), Mitsubishi Chemical Corporation (Japan), Thermax Limited (India), Ion Exchange (India) Ltd. (India), Novasep Holding (France), Samyang Corporation (South Korea), ResinTech Inc., (US), and Bio-Rad Laboratories, Inc. (US).

Research Coverage:

This report provides a detailed segmentation of the ion exchange resins market based on type, application, end-use industry, and region. Based on type, the ion exchange resins market has been segmented into cationic resins, anionic resins, and others. Based on application, the market has been segmented into water and non-water. Based on end-use industry, the market has been segmented into power, chemical & petrochemical, food & beverage, pharmaceutical, electrical & electronics, metal & mining, and others. Based on region, the market has been segmented into APAC, Europe, North America, South America, and the Middle East & Africa.

Key Benefits of Buying the Report

From an insights perspective, this research report focuses on various levels of analyses — industry analysis (industry trends), market share analysis of top players, and company profiles, which together comprise and discuss the basic views on the competitive landscape; emerging and high-growth segments of the market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

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About

The report "Ion Exchange Resins Market by Type (Cationic Resins, Anionic Resins), End-Use Industry (Power, Chemical & Petrochemical, Pharmaceutical, Food & Beverage, Metal & Mining, Electrical & Electronics), and Region - Global Forecast to 2022" The ion exchange resins market is projected to grow from USD 1.26 Billion in 2017 to USD 1.56 Billion by 2022, at a CAGR of 4.4% from 2017 to 2022. Growing urbanization and increasing affluence in the APAC region and the increasing use of nuclear energy for electricity generation in emerging economies are the major drivers for the ion exchange resins market. In addition, stringent environmental regulations in many countries are also expected to drive the ion exchange resins market during the forecast period.

Major manufacturers profiled in this report include

DowDuPont (US), Lanxess AG (Germany), Mitsubishi Chemical Corporation (Japan), Ion Exchange (India) Ltd. (India), and Purolite Corporation (US) among others. The report also includes detailed information about various growth strategies adopted by these key players to strengthen their position in the ion exchange resins market.

The objective of this study is to define, describe, and forecast the ion exchange resins market based on various segmentations and strategically analyze these market segments with respect to individual growth trends, growth prospects, and contribution to the overall ion exchange resins market. In this report, the ion exchange resins market has been segmented based on type, end-use industry, and region.

Investments & expansions was the key strategy adopted by the major players to strengthen their position in the ion exchange resins market between 2013 and 2018. Investments & expansions accounted for a share of 35.5% of the total growth strategies adopted by the leading players of the ion exchange resins market between 2013 and 2018. Companies operating in the ion exchange resins market have also adopted the strategy of new product and technology development which helped them fulfill the emerging need for ion exchange resins in various industries.

DowDuPont (US) has gained a strong foothold in the ion exchange resins market. It is focusing on organic growth and has enhanced its product portfolio through various growth strategies, such as new product and technology developments and investments & expansions, to meet the growing demand from customers. In 2013, the company

inaugurated a new technical center in the premises of the Moscow Power Engineering Institute (MPEI), together with the Research and Production Company (RPC) Mediana-Filter, that serves as a facility for plant engineers training and engineering and scientific research. In 2013, the company signed an agreement with Ahlstrom Corporation (Finland), a global high-performance fiber-based materials company, to use the Ahlstrom Disruptor technology for drinking water applications. The agreement will help the company expand its ion exchange resins product portfolio.

Lanxess AG (Germany) is another major player operating in the ion exchange resins market. The company has a broad product portfolio for ion exchange resins which find applications in various industries. The company has 54 production sites across the globe, which help the company attain economies of scale. The company is also adopting various growth strategies such as investments & expansions and new product developments to expand its presence worldwide. For instance, in September 2014, the company invested USD 12.5 million in its new production line in Leverkusen, Germany.

Cationic resins segment to lead the ion exchange resins market during the forecast period

Based on type, the cationic resins segment is projected to lead the ion exchange resins market during the forecast period. Cationic resins are commodity resins, extensively used for water softening and demineralization applications in various end-use industries, such as nuclear, water & wastewater treatment, and chemical & petrochemical, which is leading to the high growth of the ion exchange resins market.

Electrical & electronics end-use industry segment projected to grow at the highest CAGR during the forecast period

Based on end-use industry, the electrical & electronics segment is projected to grow at the highest CAGR from 2017 to 2022. Ion exchange resins are receiving considerable attention as the industry needs ultrapure water to prevent the contamination of products during manufacture which would otherwise lead to low yield of electronic devices. In addition, factors such as price erosion; higher per capita income; and rising consumer demand for smartphones, tablets, and wearable electronics are also expected to drive the industry and subsequently the consumption of ultrapure water. The R&D departments of manufacturing companies are carrying out research to widen the application areas of ion exchange resins, which is expected to drive the ion exchange resins market during the forecast period.

APAC ion exchange resins market projected to grow at the highest CAGR from 2017 to 2022

The ion exchange resins market in the APAC region possesses immense potential for growth. Increasing demand for nuclear electricity and the growing urbanization and increasing affluence in the region are expected to fuel the demand for ion exchange resins during the forecast period. China, India, Japan, and South Korea are some of the key countries in the region contributing significantly towards the growth of the ion exchange resins market in the APAC region.

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