

Global Nuclear Grade Mixed Bed Resin Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Nuclear Grade Mixed Bed Resin market size is expected to reach \$ 326 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

Nuclear grade mixed bed resin refers to high-purity mixed bed ion exchange resin used in the primary and secondary circuits of nuclear power plants, condensate polishing, reactor auxiliary systems, spent fuel pool purification, radioactive wastewater treatment, and nuclear grade ultrapure water systems. It is usually made by mixing nuclear grade strong acid cation exchange resin and nuclear grade strong alkali anion exchange resin in a specific ratio, and is used to remove trace cations, anions, boron, silicon, metal corrosion products, radioactive nuclides, and other ion impurities in water, in order to maintain the hydrochemical stability of nuclear power systems, reduce corrosion and deposition risks, and ensure the safe operation of reactors and steam water systems. Compared to ordinary industrial grade mixed bed resins, nuclear grade mixed bed resins have higher requirements for resin purity, ion leakage, exchange capacity, mechanical strength, particle uniformity, TOC release, metal impurities, chloride ion residue, radiation resistance, thermal stability, and batch consistency. The product needs to pass strict nuclear power customer verification and quality traceability system, and belongs to the high-end application category of ion exchange resins. In 2025, global Nuclear Grade Mixed Bed Resin production reached approximately 9,879 MT with an average global market price of around US\$ 21,853 per MT.

The market size of nuclear grade mixed bed resin is not as large as that of industrial grade and electronic grade mixed bed resin, but it has high technical barriers, strict customer certification, and stable supply relationships, making it a small-scale, highly reliable, and high value-added special resin market. The demand mainly comes from

the operation and maintenance of nuclear power units, replacement of condensate polishing resin, treatment of radioactive waste liquid, maintenance of nuclear island water treatment system, purification of spent fuel water pool, and commissioning of new nuclear power projects. With the global extension of nuclear power life, the promotion of new nuclear power projects, the development of small modular reactors, and the increasing requirements for water chemistry control in nuclear power plants, the demand for nuclear grade mixed bed resins has a long-term stable growth foundation. The focus of competition in this market is not on low prices, but on product cleanliness, low ion leakage, radiation stability, long-term operating life, nuclear power plant operation cases, integrity of quality documents, and supply reliability. Overall, nuclear grade mixed bed resin is a key consumable in the safe operation of nuclear power. Its future growth will mainly be driven by the increase in nuclear power installed capacity, maintenance of existing units, higher water quality standards, and domestic substitution. Industry entry barriers and customer stickiness will remain at a high level for the long term.

This report studies the global Nuclear Grade Mixed Bed Resin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Nuclear Grade Mixed Bed Resin and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Nuclear Grade Mixed Bed Resin that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Nuclear Grade Mixed Bed Resin total production and demand, 2021-2032, (Tons)

Global Nuclear Grade Mixed Bed Resin total production value, 2021-2032, (USD Million)

Global Nuclear Grade Mixed Bed Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Nuclear Grade Mixed Bed Resin consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Nuclear Grade Mixed Bed Resin domestic production, consumption, key domestic manufacturers and share

Global Nuclear Grade Mixed Bed Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Nuclear Grade Mixed Bed Resin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Nuclear Grade Mixed Bed Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Nuclear Grade Mixed Bed Resin market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Purolite, DuPont, Mitsubishi Chemical Corporation, LANXESS, Thermax Chemicals, Graver Technologies, Suzhou Bojie Resin Technology, Zhejiang Zhengguang Industrial, Sunresin New Materials, Jiangsu Suqing Water Treatment Engineering Group, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Nuclear Grade Mixed Bed Resin market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Nuclear Grade Mixed Bed Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Nuclear Grade Mixed Bed Resin Market, Segmentation by Type:

Gel Type Mixed Bed Resin

Macroporous Mixed Bed Resin

Global Nuclear Grade Mixed Bed Resin Market, Segmentation by Regeneration Method:

Regenerable

Non Regenerable

Global Nuclear Grade Mixed Bed Resin Market, Segmentation by Factory Type:

H Type

OH Type

Global Nuclear Grade Mixed Bed Resin Market, Segmentation by Application:

Water Treatment

Fuel Pool Purification

Radiation Waste Disposal

Others

Companies Profiled:

Purolite

DuPont

Mitsubishi Chemical Corporation

LANXESS

Thermax Chemicals

Graver Technologies

Suzhou Bojie Resin Technology

Zhejiang Zhengguang Industrial

Sunresin New Materials

Jiangsu Suqing Water Treatment Engineering Group

Jiangsu Haipu Functional Materials

Key Questions Answered:

1. How big is the global Nuclear Grade Mixed Bed Resin market?
2. What is the demand of the global Nuclear Grade Mixed Bed Resin market?
3. What is the year over year growth of the global Nuclear Grade Mixed Bed Resin market?
4. What is the production and production value of the global Nuclear Grade Mixed Bed Resin market?
5. Who are the key producers in the global Nuclear Grade Mixed Bed Resin market?
6. What are the growth factors driving the market demand?

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