

Ion Exchange Materials: Technologies and Global Markets

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Abstracts

Report Scope:

This report will cover the ion exchange materials industry. Definitive and detailed estimates and forecasts of the global market are provided, followed by a detailed analysis of the ion exchange resins/beads and membranes, application, and regions. It will also focus on the regulations and government-supported programs impacting this market. Regionally, the focus of study will be the markets of North America, Europe, Asia-Pacific, and the Rest of the World (RoW).

While applications for ion exchange materials other than those mentioned above do exist—sensors, for example—the market size for the materials in these industries is comparatively small. Therefore, these technologies are not covered within the scope of this report. In fact, only the applications and geographical regions listed in this chapter are considered in the subsequent market sections.

The report focuses on the global market for ion exchange materials by form factor (resin/beads, membranes), by end user (energy generation and storage [fuel cell systems, water electrolysis systems, redox flow batteries], water technologies [electrodialysis, ultrapure water generation, water softening, demineralization, wastewater treatment], separation and chemicals production [chlor-alkali processes, ion exchange chromatography, chemical catalysis, metal extraction and purification], power generation and electricity [condensate polishing, nuclear waste remediation], food production [sugar production, beverage production], pharmaceutical production {drug delivery, isolation and purification of biochemical substances}).

The report concentrates on ion exchange materials that are currently in commercial use

or are likely to be commercialized by 2028. Other applications that, while promising, are not likely to make it out of the laboratory by 2028 are not covered in depth. Sales value estimates are based on prices in the supply chain. Market-driving forces and industry structure are examined. International aspects are analyzed for all global regions.

Report Includes:

76 data tables and 69 additional tables.

An overview of the global market landscape related to the ion exchange materials and technologies.

In-depth analysis of global market trends, featuring historical revenue data for 2022 and estimated figures for 2023. This analysis includes projections of Compound Annual Growth Rates (CAGRs) spanning through 2028.

Evaluation of the current market size and revenue growth prospects specific to ion exchange materials, accompanied by a comprehensive market share analysis categorized by form factor, application, and geographical region.

Discussion of the major growth drivers, opportunities and challenges, technology updates, and impact of various macroeconomic variables influencing the market for ion exchange materials as a basis for projecting demand in the next few years (2023-2028).

In-depth information (facts and figures) concerning the major factors influencing the progress of this market (benefits, and industry-specific challenges) with respect to specific growth trends, upcoming technologies, regulations, prospects, and contributions to the ion exchange materials industry.

Review of the key patents grants and patent applications on ion exchange materials, along with emerging technologies and new developments in the global market over a brief period.

Discussion of the ESG trends and technologies, new developments and sustainable practices in the ion exchange materials industry.

Identification of the companies best positioned to meet the demand for ion

exchange materials in water treatment industry and various remediation projects, owing to or in conjunction with their proprietary technologies, merger and acquisition (M&A) activities, and other strategic advantages.

Analysis of the company competitive landscape based on recent developments, product portfolios, key financials and segmental revenues, as well as their operational integration.

Detailed profiles of leading market participants, including DuPont de Nemours Inc., Lanxess AG, Purolite, Mitsubishi Chemical Group, The Chemours Co., and Solvay S.A.

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3M

ASTOM CORP.

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BIO-RAD LABORATORIES INC.
CHEMOURS (THE CHEMOURS CO.)
DUPONT DE NEMOURS INC.
DIOXIDE MATERIALS
EVOQUA WATER TECHNOLOGIES LLC
EICHROM TECHNOLOGIES
ECOSOFT BWT
ECOELECTRO INC.
FUJIFILM HOLDINGS CORP.
ION EXCHANGE (INDIA) LTD.
IONOMR INNOVATIONS INC.
JACOBI CARBONS AB
LANXESS AG
MITSUBISHI CHEMICAL GROUP CORP.
MEMBRANES INTERNATIONAL
PUROLITE
RESINTECH INC.
SAMYANG CORP.
SUNRESIN NEW MATERIALS CO., LTD.
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