

Report Information

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Membrane Separation Materials Market Research Report – Global Forecast till 2032

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Description:

Global Membrane Separation Materials Market Overview

Membrane Separation Materials Market Size was valued at USD 26.40 Billion in 2023. The Membrane Separation Materials industry is projected to grow from USD 29.70 Billion in 2024 to USD 67.80 Billion by 2032, exhibiting a compound annual growth rate (CAGR) of 10.87% during the forecast period (2024 - 2032). The rising need for water and wastewater treatment, as well as the expanding use of membrane separation technologies in the food and beverage industries are the key market drivers enhancing the market growth.

Membrane Separation Materials Market

Source: Secondary Research, Primary Research, MRFR Database and Analyst Review

Membrane Separation Materials Market Trends

Steel demand is driving market growth

Market CAGR for Membrane Separation Materials is being driven by the high demand in steels. Membrane Separation Technology, which employs polymer membranes such as polysulfone, polyacrylonitrile, and polyvinylidene fluoride, is in high demand in the metallurgical industry. The expanding use of membrane separation technology for eliminating carbon content from multiple vent sources during the manufacturing of metals such as steel is impacting its expansion. Steel demand has expanded dramatically over the years, necessitating the construction of more steel mills. According to remarks made by South Korean steelmaker Posco, the company would begin building of a steel plant in Northern China in January 2022 at a cost of US\$600 million. Furthermore, the United States Steel Corporation announced the construction of a technologically advanced steel plant in February 2022. The establishment of such a steel mill will increase the demand for the use of membrane separation technologies such as nanofiltration, resulting in a positive growth of the membrane separation technology market throughout the forecast period.

Moreover, membrane separation Nanofiltration is in high demand in the oil and gas industry, where it is employed in the processing of natural gas such as coal bed methane. The water in the coal bed complicates methane extraction and raises reservoir pressure. The use of nanofiltration lowers such pressure and promotes methane desorption from coal. Growing demand for natural gas for power generation, motor fuel, and plastic manufacturing has led in the establishment of new production plants. According to Guangdong Rural Credit Union's announcement in the 14th Five-Year (2021-2025) Plan for Energy, the union intends to construct a natural gas production and storage plant in China's Guangdong province.

In addition, the US government announced in 2021 the building of 177 natural gas facilities to cut CO2 emissions by 2030. The establishment of new natural plants will enhance natural gas production output, consequently expanding the use of nanofiltration in the oil and gas sector. As a result, the membrane separation technology market will increase positively throughout the forecast period.

In addition, growing population and industrialization have resulted in depletion of freshwater supplies and increasing water pollution, necessitating the development of effective water treatment methods. Because of their ability to remove pollutants and toxins from water, membrane separation materials are widely employed in water treatment operations. The growing need for water treatment solutions in industries such as food and beverage, pharmaceuticals, and biotechnology is likely to propel the Membrane Separation Materials Market in the approaching years.

Membrane Separation Materials Market Segment Insights

Membrane Separation Materials Material Type Insights

The Membrane Separation Materials Market segmentation, based on Material Type includes polymers, ceramics, metals and others. The polymers category dominates the Membrane Separation Materials Market. Polymers are commonly employed in membrane separation procedures due to their good features such as high selectivity, permeability, and stability. The growing need for membrane separation materials in industries like as water and wastewater treatment, food & beverage, pharmaceuticals, and biotechnology is propelling the Polymers segment forward. Furthermore, the discoveries of new polymers with improved properties, as well as the increasing adoption of membrane separation technologies in emerging economies, are likely to fuel the growth of the polymers sector in the membrane separation materials market.

**Figure1: Membrane Separation Materials Market, by Material Type, 2022 & 2032 (USD Billion)**

Membrane Separation Materials Market, by Material Type, 2022 & 2032

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

## Membrane Separation Materials Application Insights

The Membrane Separation Materials Market segmentation, based on application, includes water treatment, food & beverage processing, gas separation, bioprocessing & medical filtration, industrial and others. In 2022, the water treatment segment dominated the membrane separation technology and had the highest revenue share. To protect the environment, several governments and regulatory agencies have enacted numerous regulations and directives regulating water treatment and disposal. Strict implementation of these restrictions is causing enterprises to adopt environmentally friendly wastewater treatment techniques, influencing demand for membrane separation technology.

## Membrane Separation Materials Regional Insights

By region, the study provides the market insights into North America, Europe, Asia-Pacific and Rest of the World. The North American Membrane Separation Materials Market area will dominate this market, because there is a growing need for water treatment solutions, there are many companies that make membrane separation materials, and more and more industries, including food and beverage, pharmaceuticals, and biotechnology, are adopting membrane separation technologies. The region's market is expanding as a result of the strict rules regarding water quality and the growing worries about water scarcity.

Further, the major countries studied in the market report are The US, Canada, German, France, the UK, Italy, Spain, China, Japan, India, Australia, South Korea, and Brazil.

**Figure2: MEMBRANE SEPARATION MATERIALS MARKET SHARE BY REGION 2022 (USD Billion)**

MEMBRANE SEPARATION MATERIALS MARKET SHARE BY REGION 2022

**Source: Secondary Research, Primary Research, MRFR Database and Analyst Review**

Europe Membrane Separation Materials Market accounts for the second-largest market share due to the rising need for water treatment options, there are many manufacturers of membrane separation materials. Further, the German Membrane Separation Materials Market held the largest market share, and the UK Membrane Separation Materials Market was the fastest growing market in the European region.

The Asia-Pacific Membrane Separation Materials Market is expected to grow at the fastest CAGR from 2023 to 2032. This is because of the region's growing population, increased industry. Moreover, China's Membrane Separation Materials Market held the largest market share, and the Indian Membrane Separation Materials Market was the fastest growing market in the Asia-Pacific region.

## Membrane Separation Materials Key Market Players & Competitive Insights

Leading market players are investing heavily in research and development in order to expand their product lines, which will help the Membrane Separation Materials Market, grow even more. Market participants are also undertaking a variety of strategic activities to expand their footprint, with important market developments including new product launches, contractual agreements, mergers and acquisitions, higher investments, and collaboration with other organizations. To expand and survive in a more competitive and rising market climate, Membrane Separation Materials industry must offer cost-effective items.

Manufacturing locally to minimize operational costs is one of the key business tactics used by manufacturers in the Membrane Separation Materials industry to benefit clients and increase the market sector. In recent years, the Membrane Separation Materials industry has offered some of the most significant advantages to medicine. Major players in the Membrane Separation Materials Market, including The Chemours Company (US), DuPont (US), KUREHA CORPORATION (Japan), 3M (US), DAIKIN INDUSTRIES, Ltd (Japan) and others, are attempting to increase market demand by investing in research and development operations.

Mölnlycke Health Care is a Swedish medical equipment firm based in Gothenburg that operates on a scale. The company makes and sells wound care and single-use surgical products, as well as providing healthcare services. Medical devices such as drapes, gowns, facemasks, and hats are included in the surgical section. Dressings, compression products, skin care products, and emollients are all part of the wound care segment. In August 2022, Mölnlycke, a world-leading medical product and solution provider, announced two historic agreements with international sustainability solutions providers Engie and Veolia. In order to achieve its goal of developing a sustainable healthcare manufacturing ecosystem while meeting market demands, the firm intends to supply best-in-class, energy-saving wastewater treatment solutions for its ongoing and forthcoming projects.

DuPont de Nemours, Inc., generally abbreviated as DuPont, is a worldwide chemical business headquartered in Wilmington, Delaware, founded in 1802 by French-American chemist and industrialist Éluthère Irénée du Pont de Nemours. The corporation had an important part in the development of Delaware, beginning as a major supplier of gunpowder. In the twentieth century, DuPont invented various polymers, including Vespel, neoprene, nylon, Corian, Teflon, Mylar, Kapton, Kevlar, Zemdren, M5 fibre, Nomex, Tyvek, Sorona, Corfam, and Lycra, and its scientists invented many chemicals, most notably Freon (chlorofluorocarbons). It also created synthetic pigments and paints, such as ChromaFlair. In December 2021, DuPont and Water.org collaborated to expand worldwide access to safe water, with an emphasis on populations most vulnerable to the effects of water scarcity. DuPont would combine its technological strength in water filtration and purification products with Water.org's experience to provide market-

driven financial solutions to the worldwide water crisis through this relationship.

## Key Companies in the Membrane Separation Materials market include

- BASF SE (Germany)
- Solvay (Belgium)
- Arkema AG (France)
- The Chemours Company (US)
- DuPont (US)
- KUREHA CORPORATION (Japan)
- 3M (US)
- DAIKIN INDUSTRIES, Ltd (Japan)
- the Quadrant group of companies (Belgium)
- Gujarat Fluorochemicals Ltd (India)

## Membrane Separation Materials Industry Developments

**In May 2022**, Sartorius AG, a pharmaceutical and laboratory equipment supplier, increased its production capacity by expanding its Tunisian manufacturing site. Allowing the German firm to enhance production of fluid management solutions.

**In August 2022**, 3M Company, a multinational corporation, announced the accelerated delivery of 3M Veraflo Therapy. At no additional cost to the user, a new 3M Veraflo Cleanse Choice Complete Dressing Kit and a software upgrade for the 3M V.A.C. Ulta Therapy Unit were introduced.

**In August 2022**, 3M Company, a multinational, announced the introduction of 3M VHB Extrudable Tape, a revolutionary production bonding solution that provides increased automation, simplicity, and sustainability across industries. This end-to-end bonding solution combines all of the advantages of 3M VHB Tapes with the versatility of a liquid adhesive in a single confined footprint that allows for use at any scale.

## Membrane Separation Materials Market Segmentation

### Membrane Separation Materials Market By Material Type Outlook

- Polymers
- Ceramics
- Metals
- Others

### Membrane Separation Materials Market By Application Outlook

- Water Treatment
- Food & Beverage Processing
- Gas Separation
- Bioprocessing & Medical Filtration
- Industrial
- Others

### Membrane Separation Materials Regional Outlook

- North America
  - US
  - Canada

- Europe
  - Germany
  - France
  - UK
  - Italy
  - Spain
  - Rest of Europe
- Asia-Pacific
  - China
  - Japan
  - India
  - Australia
  - South Korea
  - Australia
  - Rest of Asia-Pacific
- Rest of the World
  - Middle East
  - Africa
  - Latin America

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