

Global Nanofiltration Membranes Market 2023

<https://marketpublishers.com/r/G2D08B3ACC22EN.html>

Date: September 2023

Pages: 90

Price: US\$ 2,850.00 (Single User License)

ID: G2D08B3ACC22EN

Abstracts

Description

The global nanofiltration membrane market has witnessed steady growth, reaching a valuation of USD 724.2 million in 2022. The market is estimated to expand at a CAGR of 4.7% over 2022-2029 to attain a value of USD 1.01 billion by the end of the forecast period.

Key growth drivers include rising adoption of nanofiltration technology for water treatment and pathogen removal in the municipal sector. Ongoing R&D focused on developing advanced, energy-efficient wastewater treatment solutions also supports market expansion. Nanofiltration offers unique properties like cost-effectiveness for whey concentration and versatility for diverse applications, enabling it to address sustainability concerns globally.

Rapid urbanization and industrialization in emerging economies is expected to create substantial demand for nanofiltration membranes in water treatment, given worsening water scarcity. Nanofiltration presents a viable alternative to reverse osmosis with advantages like lower energy requirements and higher flux rates. Widespread usage is seen in softening and disinfecting municipal water. However, membrane fouling remains a restraint that needs mitigation for sustained market growth.

Market Segmentation

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the product, membrane type, end user, and geography.

Segmentation by Product

Inorganic NF Membranes

Polymer-based NF Membranes

Inorganic NF Membranes

Segmentation by Membrane Type

Tubular Membranes

Flat Sheet Membranes

Spiral-Wound Membranes

Hollow-Fiber Membranes

Segmentation by End User

Chemicals and Petrochemicals

Food and Beverages

Pharmaceutical and Biomedical

Water and Wastewater Treatment (WWT)

Others

Segmentation by Geography

North America – US, Canada

Europe – Germany, France, UK, Italy, Russia

Asia-Pacific %li%China, Japan, India, South Korea, Australia

Latin America %li%Brazil, Mexico

Middle East & Africa – South Africa, Saudi Arabia, GCC

In 2022, the polymeric type held the largest market share in the global nanofiltration membrane market. Polymeric membranes, composed of nonporous polymeric materials, are recognized for their exceptional performance. They are categorized into tubular, flat sheet, spiral-wound, and hollow-fiber membranes. Among these, the tubular membrane segment dominated with over 32.6% revenue share. Tubular membranes are positioned inside a tube and operate with an inside-out flow configuration. The water & wastewater treatment segment represents the largest market segment for nanofiltration membranes globally, driven by their use in various applications including desalination. NF membranes offer lower energy consumption and higher flux rates compared to reverse osmosis. They find applications in diverse industrial sectors for wastewater treatment.

North America dominates the global nanofiltration membrane market with a 31.8% share in 2022. The region utilizes these membranes extensively in industrial and municipal water treatment processes, mitigating freshwater scarcity. The demand for nanofiltration membranes from the industrial sector further boosts the market. In Europe, the demand for water reuse and recycling solutions, along with various end-user industries, drives the market. The Asia-Pacific region is expected to experience the highest growth rate due to the rising demand for water purification and chemical-free treatment methods.

Competitive Landscape

The global nanofiltration membrane market is partially fragmented, with small and medium-sized manufacturers contributing to a marginal market share. Key players such as Alfa Laval, Koch Separation Solutions, Applied Membranes, Nitto Denko Corporation, and Toray Industries dominate the market. These companies adopt innovative technologies and engage in strategic acquisitions and partnerships to strengthen their positions. Customers seek system suppliers that offer comprehensive solutions for water treatment. Other notable companies in the market include AXEON Water Technologies, Inc., DuPont de Nemours, Inc., GEA Group AG, Inopor GmbH, KEENSEN Technology Co., Ltd., MANN+HUMMEL Gruppe, Nitto Denko Corporation, Novasep Holding SAS, NX Filtration BV, Pall Corporation (Danaher Corporation), Pentair plc, Pure Aqua, Inc., Shandong Jozzon Membrane Technology Co., Ltd., SnowPure, LLC, SPX Flow, Inc., Suez SA, Suntar Environmental Technology Co., Ltd., Sun-up Corporation, Vontron Technology Co., Ltd., Wave Cyber (Shanghai) Co., Ltd., among others.

Scope of the Report

To analyze and forecast the market size of the global nanofiltration membranes market.

To classify and forecast the global nanofiltration membranes market based on product, membrane type, end user, geography.

To identify drivers and challenges for the global nanofiltration membranes market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global nanofiltration membranes market.

To identify and analyze the profile of leading players operating in the global nanofiltration membranes market.

Why Choose This Report

Gain a reliable outlook of the global nanofiltration membranes market forecasts from 2023 to 2029 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

Contents

PART 1. INTRODUCTION

- 1.1 Description
- 1.2 Objectives of The Study
- 1.3 Market Segment
- 1.4 Years Considered for The Report
- 1.5 Currency
- 1.6 Key Target Audience

PART 2. RESEARCH METHODOLOGY

- 2.1 Primary Research
- 2.2 Secondary Research

PART 3. EXECUTIVE SUMMARY

PART 4. MARKET OVERVIEW

- 4.1 Introduction
- 4.2 Drivers
- 4.3 Restraints

PART 5. GLOBAL NANOFILTRATION MEMBRANES MARKET BY PRODUCT

- 5.1 Inorganic NF membranes
- 5.2 Polymer-based NF membranes
- 5.3 Inorganic NF membranes

PART 6. GLOBAL NANOFILTRATION MEMBRANES MARKET BY MEMBRANE TYPE

- 6.1 Tubular membranes
- 6.2 Flat sheet membranes
- 6.3 Spiral-wound membranes
- 6.4 Hollow-fiber membranes

PART 7. GLOBAL NANOFILTRATION MEMBRANES MARKET BY END USER

- 7.1 Chemicals and petrochemicals
- 7.2 Food and beverages
- 7.3 Pharmaceutical and biomedical
- 7.4 Water and wastewater treatment (WWT)
- 7.5 Others

PART 8. GLOBAL NANOFILTRATION MEMBRANES MARKET BY GEOGRAPHY

- 8.1 North America
- 8.2 Europe
- 8.3 Asia-Pacific
- 8.4 Latin America
- 8.5 Middle East & Africa

PART 9. COMPANY PROFILES

- 9.1 AXEON Water Technologies, Inc.
- 9.2 DuPont de Nemours, Inc.
- 9.3 GEA Group AG
- 9.4 Inopor GmbH
- 9.5 KEENSEN Technology Co., Ltd.
- 9.6 MANN+HUMMEL Gruppe
- 9.7 Nitto Denko Corporation
- 9.8 Novasep Holding SAS
- 9.9 NX Filtration BV
- 9.10 Pall Corporation (Danaher Corporation)
- 9.11 Pentair plc
- 9.12 Pure Aqua, Inc.
- 9.13 Shandong Jozzon Membrane Technology Co., Ltd.
- 9.14 SnowPure, LLC
- 9.15 SPX Flow, Inc.
- 9.16 Suez SA
- 9.17 Suntar Environmental Technology Co., Ltd.
- 9.18 Sun-up Corporation
- 9.19 Vontron Technology Co., Ltd.
- 9.20 Wave Cyber (Shanghai) Co., Ltd.

DISCLAIMER

I would like to order

Product name: Global Nanofiltration Membranes Market 2023

Product link: <https://marketpublishers.com/r/G2D08B3ACC22EN.html>

Price: US\$ 2,850.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G2D08B3ACC22EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970