

# Global Markets and Technologies for Nanofiltration

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## Abstracts

### REPORT SCOPE:

This report provides an updated review of nanofiltration membranes, including materials and production processes, and identifies current and emerging applications for these products.

BCC Research delineates the current market status for nanofiltration membranes, defines trends, and presents growth forecasts for the next five years. The nanofiltration membrane market is analyzed based on the following segments: material type, configuration, application, and region. In addition, technological issues, including key events and the latest developments, are discussed.

More specifically, the market analysis conducted by BCC Research for this report is divided into five sections.

In the first section, an introduction to the topic and a historical review of nanofiltration technology are provided, including an outline of recent events. In this section, current and emerging applications are also identified and grouped in segments (water and wastewater treatment, food and beverage, chemical and petrochemical, life science, metalworking, and others).

The second section provides a technological review of nanofiltration membranes. This section offers a detailed description of materials used for production of these membranes, their properties, membrane configurations, and typical fabrication methods. This section concludes with an analysis of the most important technological developments since 2016, including examples of significant patents recently issued or applied for. The chapter ends with a highlight of the most active research organizations operating in this field and their activities.

The third section entails a global market analysis for nanofiltration membranes. Global revenues (sales data in millions of dollars) are presented for each segment (material type, configuration, application, and region), with actual data referring to the years 2017 and 2018, and estimates for 2019. Dollar figures refer to sales of these products at the manufacturing level.

The analysis of current revenues for nanofiltration membranes is followed by a detailed presentation of market growth trends, based on industry growth, technological trends, and regional trends. The third section concludes by providing projected revenues for nanofiltration membranes within each segment, together with forecast compound annual growth rates (CAGRs) for the period 2019 through 2024. Projected and forecast revenue values are in constant U.S. dollars, unadjusted for inflation.

In the fourth section of the study, which covers global industry structure, the report offers a list of the leading manufacturers of nanofiltration membranes, together with a description of their products. The analysis includes a description of the geographical distribution of these firms and an evaluation of other key industry players. Detailed company profiles of the top players are also provided.

The fifth and final section includes an analysis of recently issued U.S. patents, with a summary of patents related to nanofiltration membrane materials, fabrication methods, and applications. Patent analysis is performed by region, country, assignee, patent category, application, and material type.

## **REPORT INCLUDES:**

43 data tables and 23 additional tables

An overview of the global markets and technologies for nanofiltration membranes, focusing on materials, configurations, fabrication technologies and applications

Analyses of global market trends, with data from 2017 and 2018, estimates for 2019, and projections of compound annual growth rates (CAGRs) through 2024

Brief insight into new technological developments related to nanofiltration, while outlining current technical issues

Information on the main global R&D activities related to nanofiltration membranes, resulting in the issuance of patents

Identification of current industry players, including manufacturers of nanofiltration membranes, materials and fabrication equipment, technology developers, and future market participants

Trends in recently issued U.S. patents.

Detailed company profiles of the major market players within the industry, including Alfa Laval, DuPont, Evonik Industries, Parker Hannifin and Toray Industries

## Contents

### **CHAPTER 1 INTRODUCTION**

Study Goals and Objectives  
Reasons for Doing This Study  
Intended Audience  
Scope of Report  
Methodology and Information Sources  
Market Breakdown  
Analyst's Credentials  
BCC Custom Research  
Related BCC Research Reports

### **CHAPTER 2 SUMMARY AND HIGHLIGHTS**

### **CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND**

Filtration, Membrane-Based Separation Processes and Nanofiltration  
Pressure-Driven Processes and Nanofiltration  
The Filtration Industry  
Milestones in the History of Nanofiltration and Recent Events  
Current and Emerging Applications for Nanofiltration  
Water and Wastewater Treatment  
Food and Beverages  
Chemical and Petrochemical  
Metalworking  
Life Sciences  
Others

### **CHAPTER 4 TECHNOLOGY**

Introduction  
Physical and Chemical Properties of Nanofiltration Membranes  
Molecular Weight Cut-off  
Flux  
Permeability  
Fouling  
Selectivity

Nanofiltration Membrane Materials  
Polymeric Membranes  
Carbon Membranes  
Inorganic Membranes  
Organic-Inorganic Membranes  
Manufacturing Methods for Nanofiltration Membranes  
Roller Coating  
Molecular Layer-by-Layer Assembly Process  
Flow-Through Atomic Layer Deposition  
3D Printing  
Nanofiltration Membrane Modules  
Configurations  
Methods of Filtration  
Normal-flow Filtration  
Cross-flow Filtration  
Centrifugal Filtration  
Nanofiltration Process  
Process Steps Before Nanofiltration  
Cleaning of Nanofiltration Systems  
Quality Control  
Modifications to Traditional Nanofiltration Process  
Latest Technological Developments, 2016 to Present  
Asymmetric Membrane for Organic Solvent Nanofiltration  
Composite Perfluorohydrocarbon Membrane  
Nanofiltration for Purification of Monoclonal Antibodies  
Alicyclic Polyamide Nanofiltration Membrane  
Other Relevant R&D Activities

## **CHAPTER 5 GLOBAL MARKETS**

Analysis Outline  
Global Market Summary  
Current Market Status  
Market by Material Type  
Market by Configuration  
Market by Application  
Market by Region  
Market Growth Trends  
Water and Wastewater Treatment

Food and Beverages  
Chemical and Petrochemical Industry  
Life Sciences  
Metalworking Industry  
Other Industries  
Other Technological Trends  
Regional Trends  
Market Forecast  
Market by Material Type  
Market by Configuration  
Market by Application  
Market by Region

## **CHAPTER 6 GLOBAL INDUSTRY STRUCTURE AND COMPANY PROFILES**

Leading Suppliers of Nanofiltration Membranes  
Distribution of Leading Suppliers by Technology Type and Region  
Other Industry Players  
Company Profiles  
ALFA LAVAL  
ARGONIDE  
AXEON WATER TECHNOLOGIES  
C?RAMIQUES TECHNIQUES INDUSTRIELLES  
DONALDSON  
DUPONT  
EVONIK INDUSTRIES  
FUMATECH  
KOCH MEMBRANE SYSTEMS  
MICRODYN-NADIR  
NITTO HYDRANAUTICS  
NOVASEP  
NX FILTRATION  
PALL  
PARKER HANNIFIN  
PCI MEMBRANES  
PERVATECH  
RAUSCHERT  
SUEZ WATER TECHNOLOGIES & SOLUTIONS  
TORAY INDUSTRIES

## **CHAPTER 7 PATENT ANALYSIS**

Introduction

Summary of Recently Awarded Patents

General Trends

Trends by Country and Region

Trends by Assignee

Trends by Patent Category

Trends by Material Type

Trends by Application

## List Of Tables

### LIST OF TABLES

Summary Table: Global Market for Nanofiltration Membranes, by Application, Through 2024

Table 1: Membrane-based Separation Processes and Driving Forces, 2019

Table 2: Properties of Microfiltration, Ultrafiltration, Nanofiltration and Reverse Osmosis Membranes

Table 3: Global Market for Filtration, by Type, Through 2024

Table 4: Global Market for Membranes, by Region, Through 2024

Table 5: Applications of Membrane-based Separation Processes, 2019

Table 6: Technological Milestones for Membrane Separation Processes and Nanofiltration

Table 7: Global Patent Applications and Patents Issued on Nanofiltration, 1980-2018

Table 8: Applications of Nanofiltration in Water and Wastewater Treatment, 2019

Table 9: Applications of Nanofiltration in the Food and Beverage Sector, 2019

Table 10: Applications of Nanofiltration in the Chemical and Petrochemical Sector, 2019

Table 11: Applications of Nanofiltration in Metalworking, 2019

Table 12: Applications of Nanofiltration in the Life Sciences, 2019

Table 13: Applications of Nanofiltration in Other Areas, 2019

Table 14: Polymeric Materials Used in Nanofiltration, 2019

Table 15: Manufacturing Methods for Nanofiltration Membranes, 2019

Table 16: Other Relevant R&D Activities, 2019

Table 17: Drivers, Restraints, Challenges, and Opportunities for the Nanofiltration Market

Table 18: Global Market for Nanofiltration Membranes, by Application, Through 2024

Table 19: Global Market for Nanofiltration Membranes, by Material Type, Through 2019

Table 20: Global Market for Nanofiltration Membranes, by Configuration, Through 2019

Table 21: Global Market for Nanofiltration Membranes, by Application, Through 2019

Table 22: Global Market for Nanofiltration Membranes, by Region, Through 2019

Table 23: Global Market for Potable Water, by Region, Through 2024

Table 24: Global Market for Desalination Technologies, by Region, Through 2024

Table 25: Global Market for Water Recycling and Reuse Technologies, by Region, Through 2024

Table 26: Global Market for Whey Proteins, by Region, Through 2024

Table 27: Global Market for Lactose and Lactose-Derivatives, by Region, Through 2024

Table 28: Global Market for Sugar, by Region, Through 2024

Table 29: Global Market for Beverages, by Type, Through 2024



- Table 30: Global Market for Organic Solvents, by Region, Through 2024
- Table 31: Global Market for Oil Derivates, by Region, Through 2024
- Table 32: Global Market for Catalysts, by Type, Through 2024
- Table 33: Global Market for Biosynthesis Products, by Region, Through 2024
- Table 34: Global Market for Therapeutic Proteins, by Region, Through 2024
- Table 35: Global Market for Antibiotics, by Region, Through 2024
- Table 36: Global Market for Plasma Products, by Region, Through 2024
- Table 37: Global Market for Membranes for the Life Sciences, by Region, Through 2024
- Table 38: Global Market for Metalworking Fluids, by Region, Through 2024
- Table 39: Global Market for Pesticides, by Region, Through 2024
- Table 40: Global Market Volumes of Hybrid and Electric Vehicles, by Type, Through 2024
- Table 41: Global Market for Batteries, by Type, Through 2024
- Table 42: Global Market for Protein Ingredients and Supplements, by Region, Through 2024
- Table 43: Global Market for Oligosaccharides, by Region, Through 2024
- Table 44: Global Market for Metal-Organic Frameworks, by Region, Through 2024
- Table 45: Global Market for Nanofiltration Membranes, by Material Type, Through 2024
- Table 46: Global Market for Nanofiltration Membranes, by Configuration, Through 2024
- Table 47: Global Market for Nanofiltration Membranes, by Application, Through 2024
- Table 48: Global Market for Nanofiltration Membranes, by Region, Through 2024
- Table 49: Leading Suppliers of Nanofiltration Membranes, 2019
- Table 50: Leading Suppliers of Organic Nanofiltration Membranes, 2019
- Table 51: Leading Suppliers of Inorganic Nanofiltration Membranes, 2019
- Table 52: Leading Suppliers of Hybrid Nanofiltration Membranes, 2019
- Table 53: Leading Suppliers of Nanofiltration Membranes, by Type and Region, 2019
- Table 54: Other Relevant Industry Players, 2019
- Table 55: DuPont Nanofiltration Membranes, 2019
- Table 56: U.S. Patents Related to Nanofiltration, 2019
- Table 57: U.S. Patents Related to Nanofiltration, 2018
- Table 58: U.S. Patents Related to Nanofiltration, 2017
- Table 59: U.S. Patent Trends for Nanofiltration, 2017-2019
- Table 60: U.S. Patents Related to Nanofiltration, by Region, 2017-2019
- Table 61: U.S. Patents Related to Nanofiltration, by Country, 2017-2019
- Table 62: U.S. Patents Related to Nanofiltration, by Assignee, 2019
- Table 63: U.S. Patents Related to Nanofiltration, by Patent Category, 2019
- Table 64: U.S. Patents Related to Nanofiltration, by Material Type, 2019
- Table 65: U.S. Patents Related to Nanofiltration, by Application, 2019

## List Of Figures

### LIST OF FIGURES

Summary Figure: Global Market for Nanofiltration Membranes, by Application, 2017-2024

Figure 1: Global Market Shares of Filtration, by Type, 2024

Figure 2: Global Market Shares of Membranes, by Region, 2024

Figure 3: Global Patent Applications and Patents Issued on Nanofiltration, 1980-2018

Figure 4: Global Market for Nanofiltration Membranes, by Application, 2017-2024

Figure 5: Global Market Shares of Nanofiltration Membranes, by Material Type, 2019

Figure 6: Global Market Shares of Nanofiltration Membranes, by Configuration, 2019

Figure 7: Global Market Shares of Nanofiltration Membranes, by Application, 2019

Figure 8: Global Market Shares of Nanofiltration Membranes, by Region, 2019

Figure 9: Global Market Shares of Potable Water, by Region, 2024

Figure 10: Global Market Shares of Desalination Technologies, by Region, 2024

Figure 11: Global Market Shares of Water Recycling and Reuse Technologies, by Region, 2024

Figure 12: Global Market Shares of Whey Proteins, by Region, 2024

Figure 13: Global Market Shares of Lactose and Lactose-Derivatives, by Region, 2024

Figure 14: Global Market Shares of Sugar, by Region, 2024

Figure 15: Global Market Shares of Beverages, by Type, 2024

Figure 16: Global Market Shares of Organic Solvents, by Region, 2024

Figure 17: Global Market Shares of Oil Derivates, by Region, 2024

Figure 18: Global Market Shares of Catalysts, by Type, 2024

Figure 19: Global Market Shares of Biosynthesis Products, by Region, 2024

Figure 20: Global Market Shares of Therapeutic Proteins, by Region, 2024

Figure 21: Global Market Shares of Antibiotics, by Region, 2024

Figure 22: Global Market Shares of Plasma Products, by Region, 2024

Figure 23: Global Market Shares of Membranes for the Life Sciences, by Region, 2024

Figure 24: Global Market Shares of Metalworking Fluids, by Region, 2024

Figure 25: Global Market Shares of Pesticides, by Region, 2024

Figure 26: Global Market Volume Shares of Hybrid and Electric Vehicles, by Type, 2024

Figure 27: Global Market Shares of Batteries, by Type, 2024

Figure 28: Global Market Shares of Protein Ingredients and Supplements, by Region, 2024

Figure 29: Global Market Shares of Oligosaccharides, by Region, 2024

Figure 30: Global Market Shares of Metal-Organic Frameworks, by Region, 2024

Figure 31: Global Market Shares of Nanofiltration Membranes, by Material Type, 2024

Figure 32: Global Market Shares of Nanofiltration Membranes, by Configuration, 2024

Figure 33: Global Market Shares of Nanofiltration Membranes, by Application, 2024

Figure 34: Global Market Shares of Nanofiltration Membranes, by Region, 2024

Figure 35: Distribution of Suppliers of Nanofiltration Membranes, by Region and Type, 2019

Figure 36: U.S. Patent Trends for Nanofiltration, 2017-2019

Figure 37: U.S. Patent Shares of Nanofiltration, by Region, 2017-2019

Figure 38: U.S. Patent Shares of Nanofiltration, by Country, 2017-2019

Figure 39: U.S. Patent Shares of Nanofiltration, by Patent Category, 2019

Figure 40: U.S. Patent Shares of Nanofiltration, by Material Type, 2019

Figure 41: U.S. Patent Shares of Nanofiltration, by Application, 2019

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