

**Nanofiltration Membrane Market by Type (Polymeric, Ceramic, Hybrid), Module (Spiral Wound, Tubular, Hollow Fiber, Flat Sheet), Application (Municipal, Industrial), And Region (North America, Europe, Apac, South America, MEA) - Global Forecast to 2028**

Market Report | 2023-09-11 | 235 pages | MarketsandMarkets

**AVAILABLE LICENSES:**

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

**Report description:**

The global nanofiltration membrane market size is projected to reach USD 1.7 billion by 2028 from USD 1.0 billion in 2023, at a CAGR of 10.8% during the forecast period. The demand for nanofiltration membranes is increasing due to the need for clean and safe drinking water. Nanofiltration is an effective water treatment solution that can remove contaminants and impurities from water. Nanofiltration membranes are used in various industrial applications, including wastewater treatment, food and beverage processing, and the dairy industry. The demand for nanofiltration membranes is increasing due to their effectiveness in these applications.

"Tubular is the second largest in terms of value amongst other modules in the nanofiltration membranes market in 2022." Tubular nanofiltration membrane modules are tube-like structures with porous walls that operate via tangential crossflow. The module is made of stainless steel and has a robust design that allows it to be used in systems designed for operation at up to 80 bars at 80°C, depending on the type of membrane fitted. Tubular nanofiltration membrane modules are used in various applications, including wastewater treatment, food & beverage processing, and the pharmaceutical industry. They are ideal for high solids/oily applications and can manage high concentrations of suspended solids.

"Municipal is the second largest in terms of value amongst other applications in the nanofiltration membranes market in 2022." Nanofiltration membranes are increasingly being used in municipal wastewater treatment due to their effectiveness in removing contaminants and improving water quality. Nanofiltration membranes are employed in the treatment of municipal wastewater.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

They can effectively remove ions, organic substances, and other contaminants from the wastewater, improving its quality before discharge or reuse. Nanofiltration membranes offer advantages over conventional clarification and disinfection processes in municipal treatment. They have a smaller physical footprint, require less chemical addition, and provide consistent removal of particles and microbes.

"Europe is the third largest in the nanofiltration membranes market in 2022."

Europe is the third largest region amongst others in the nanofiltration membranes market in 2022 in terms of value. Europe has been secure from the social, economic, and environmental impacts of severe water shortages. However, as demand increases, some parts of Europe have become susceptible to water stress. The reason for this situation is the over-extraction and prolonged periods of low rainfall or drought. European water resources management focuses on a regular supply of water using a combination of reservoirs, inter-basin transfers, and increasing abstraction of both surface water and groundwater. All these factors are projected to drive the nanofiltration membranes market in the region.

The breakdown of primary interviews has been given below.

-□By Company Type: Tier 1 - 40%, Tier 2 - 30%, and Tier 3 - 30%

-□By Designation: C Level Executives - 20%, Director Level - 10%, Others - 70%

-□By Region: North America - 20%, Europe - 30%, Asia Pacific - 30%, Middle East & Africa - 10%, South America-10%.

The key players in the nanofiltration membranes market DuPont Water Solutions (US), Toray Industries, Inc. (Japan), Veolia Environnement S.A. (France), Alfa Laval AB (Sweden), GEA Group AG (Germany), Hydranautics (US), NX Filtration (Netherlands), Pall Corporation (US), Vontron Technology Co., Ltd. (China), and Pentair (US) among others. The nanofiltration membranes market report analyzes the key growth strategies, such as new product launches, investments & expansions, agreements, partnerships, and mergers & acquisitions to strengthen their market positions.

#### Research Coverage

This report provides a detailed segmentation of the nanofiltration membranes market and forecasts its market size until 2028. The market has been segmented based on type (polymeric, ceramic, hybrid), module (spiral wound, tubular, hollow fiber, flat sheet), application (municipal, industrial), and region (North America, Europe, Asia Pacific, Middle East & Africa, and South America). A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, new product launches, expansions, and mergers & acquisitions associated with the market for the nanofiltration membranes market.

#### Key benefits of buying this report

This research report is focused on various levels of analysis - industry analysis (industry trends), market ranking analysis of top players, and company profiles, which together provide an overall view of the competitive landscape; emerging and high-growth segments of the nanofiltration membranes market; high-growth regions; and market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

-□Analysis of key drivers (Rising industrialization and urbanization, Declining freshwater resources, Low energy consumption in nanofiltration), restraints (Fouling in nanofiltration membrane), opportunities (Rising advancements in nanofiltration membrane, Growing food & beverage industry), and challenges (Lack of awareness about advantages of membrane filtration) influencing the growth of the nanofiltration membranes market.

-□Market Penetration: Comprehensive information on the nanofiltration membranes offered by top players in the global nanofiltration membranes market.

-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product launches in the nanofiltration membranes market.

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- **Market Development:** Comprehensive information about lucrative emerging markets - the report analyzes the markets for nanofiltration membranes market across regions.
- **Market Diversification:** Exhaustive information about new products, growing geographies, and recent developments in the nanofiltration membranes market.
- **Competitive Assessment:** In-depth assessment of market segments, growth strategies, revenue analysis, and products of the leading market players.

## Table of Contents:

1	INTRODUCTION	34
1.1	STUDY OBJECTIVES	34
1.2	MARKET DEFINITION	34
1.3	INCLUSIONS AND EXCLUSIONS	35
TABLE 1	NANOFILTRATION MARKET: INCLUSIONS AND EXCLUSIONS	35
1.4	STUDY SCOPE	35
1.4.1	MARKETS COVERED	35
FIGURE 1	NANOFILTRATION MARKET SEGMENTATION	35
1.4.2	REGIONS COVERED	36
1.4.3	YEARS CONSIDERED	36
1.5	CURRENCY CONSIDERED	36
1.6	UNITS CONSIDERED	37
1.7	STAKEHOLDERS	37
2	RESEARCH METHODOLOGY	38
2.1	RESEARCH DATA	38
FIGURE 2	NANOFILTRATION MARKET: RESEARCH DESIGN	38
2.1.1	SECONDARY DATA	39
2.1.1.1	Key data from secondary sources	39
2.1.2	PRIMARY DATA	39
2.1.2.1	Key data from primary sources	40
2.1.2.2	Key industry insights	40
2.1.2.3	Breakdown of primary interviews	41
2.2	MARKET SIZE ESTIMATION	41
FIGURE 3	NANOFILTRATION MARKET: MARKET SIZE ESTIMATION	42
2.2.1	BOTTOM-UP APPROACH	42
FIGURE 4	NANOFILTRATION MARKET: BOTTOM-UP APPROACH	42
2.2.2	TOP-DOWN APPROACH	43
FIGURE 5	NANOFILTRATION MARKET: TOP-DOWN APPROACH	43
2.3	DATA TRIANGULATION	44
FIGURE 6	NANOFILTRATION MARKET: DATA TRIANGULATION	44
2.4	ASSUMPTIONS	45
2.5	GROWTH FORECAST	45
2.5.1	SUPPLY-SIDE APPROACH	45
2.5.2	DEMAND-SIDE APPROACH	45
2.6	RISK ASSESSMENT	46
2.7	RECESSION IMPACT	46
3	EXECUTIVE SUMMARY	47
FIGURE 7	POLYMERIC SEGMENT TO RECORD FASTEST GROWTH DURING FORECAST PERIOD	47
FIGURE 8	SPIRAL WOUND SEGMENT TO REGISTER HIGHEST GROWTH IN 2028	48

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

FIGURE 9	INDUSTRIAL SEGMENT TO LEAD MARKET DURING FORECAST PERIOD	48
FIGURE 10	ASIA PACIFIC TO BE FASTEST-GROWING MARKET DURING FORECAST PERIOD	49
4	PREMIUM INSIGHTS	50
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN NANOFILTRATION MARKET	50
FIGURE 11	ATTRACTIVE OPPORTUNITIES FOR NANOFILTRATION MANUFACTURERS DURING FORECAST PERIOD	50
4.2	NANOFILTRATION MARKET, BY TYPE	50
FIGURE 12	POLYMERIC SEGMENT TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD	50
4.3	NANOFILTRATION MARKET, BY MODULE	51
FIGURE 13	SPIRAL WOUND SEGMENT TO LEAD OVERALL MARKET DURING FORECAST PERIOD	51
4.4	NANOFILTRATION MARKET, BY APPLICATION	51
FIGURE 14	INDUSTRIAL SEGMENT TO ACCOUNT FOR LARGER SHARE DURING FORECAST PERIOD	51
4.5	NANOFILTRATION MARKET, BY KEY COUNTRY	52
FIGURE 15	INDIA TO RECORD HIGHEST CAGR DURING FORECAST PERIOD	52
5	MARKET OVERVIEW	53
5.1	INTRODUCTION	53
5.2	RECESSION IMPACT ANALYSIS	53
5.3	MARKET DYNAMICS	54
FIGURE 16	DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES IN NANOFILTRATION MARKET	54
5.3.1	DRIVERS	54
5.3.1.1	Rapid industrialization and urbanization	54
5.3.1.2	Declining freshwater resources	55
5.3.1.3	Low energy consumption	56
5.3.2	RESTRAINTS	56
5.3.2.1	Fouling in nanofiltration membranes	56
5.3.3	OPPORTUNITIES	57
5.3.3.1	Technological advancements in nanofiltration	57
5.3.3.2	Expansion into emerging markets	57
5.3.4	CHALLENGES	58
5.3.4.1	Low performance at high temperatures	58
5.4	VALUE CHAIN ANALYSIS	58
FIGURE 17	NANOFILTRATION MARKET: VALUE CHAIN	59
5.4.1	RAW MATERIAL SUPPLIERS	59
5.4.2	MANUFACTURERS	59
5.4.3	DISTRIBUTORS	59
5.4.4	END USERS	60
TABLE 2	NANOFILTRATION MARKET: VALUE CHAIN STAKEHOLDERS	60
5.5	PORTER'S FIVE FORCES ANALYSIS	61
FIGURE 18	NANOFILTRATION MARKET: PORTER'S FIVE FORCES ANALYSIS	61
5.5.1	THREAT OF NEW ENTRANTS	61
5.5.2	THREAT OF SUBSTITUTES	61
5.5.3	BARGAINING POWER OF BUYERS	62
5.5.4	BARGAINING POWER OF SUPPLIERS	62
5.5.5	INTENSITY OF COMPETITIVE RIVALRY	62
TABLE 3	NANOFILTRATION MARKET: PORTER'S FIVE FORCES ANALYSIS	62
5.6	MACROECONOMIC INDICATORS	63
5.6.1	GLOBAL GDP TRENDS	63
TABLE 4	PER CAPITA GDP TRENDS (USD), 2020-2022	63

TABLE 5 GDP GROWTH ESTIMATE AND PROJECTION OF KEY COUNTRIES, 2023-2027 64

5.7 REGULATORY LANDSCAPE 65

5.7.1 REGULATIONS 65

5.7.2 NORTH AMERICA 65

5.7.2.1 Clean Water Act 65

5.7.2.2 Safe Drinking Water Act 65

5.7.3 ASIA PACIFIC 65

5.7.3.1 Environmental Protection Law 65

5.7.3.2 Water Resources Law 66

5.7.3.3 Water Pollution Prevention and Control Law 66

5.7.3.4 Water Prevention and Control of Pollution Act 66

5.7.4 EUROPE 66

5.7.4.1 Urban Wastewater Treatment Directive 66

5.7.4.2 Drinking Water Directive 66

5.7.4.3 Water Framework Directive 67

5.7.5 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 67

TABLE 6 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 67

TABLE 7 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 68

TABLE 8 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS 68

5.8 TRADE ANALYSIS 69

5.8.1 IMPORT SCENARIO 69

TABLE 9 REGION-WISE IMPORT TRADE DATA (USD THOUSAND) 69

FIGURE 19 REGION-WISE IMPORT TRADE DATA (USD THOUSAND) 69

5.8.2 EXPORT SCENARIO 70

TABLE 10 REGION-WISE EXPORT TRADE DATA (USD THOUSAND) 70

FIGURE 20 REGION-WISE EXPORT TRADE (USD THOUSAND) 70

5.9 TRENDS AND DISRUPTIONS IMPACTING CUSTOMER BUSINESS 71

FIGURE 21 REVENUE SHIFT AND NEW REVENUE POCKETS IN NANOFILTRATION MARKET 71

5.10 CASE STUDY ANALYSIS 71

5.10.1 TORAY INDUSTRIES, INC.: NANOFILTRATION MEMBRANES FOR WATER TREATMENT 71

5.10.2 KOCH SEPARATION SOLUTIONS: NANOFILTRATION MEMBRANES FOR DAIRY INDUSTRY 72

5.11 TECHNOLOGY ANALYSIS 73

5.12 ECOSYSTEM MAPPING 74

FIGURE 22 NANOFILTRATION MARKET ECOSYSTEM 74

5.13 KEY CONFERENCES AND EVENTS, 2023-2024 75

TABLE 11 NANOFILTRATION MARKET: KEY CONFERENCES AND EVENTS, 2023-2024 75

5.14 KEY STAKEHOLDERS AND BUYING CRITERIA 76

5.14.1 QUALITY 76

5.14.2 SERVICE 76

FIGURE 23 SUPPLIER SELECTION CRITERION 76

5.15 PATENT ANALYSIS 77

5.15.1 INTRODUCTION 77

5.15.2 DOCUMENT TYPES 77

FIGURE 24 PATENTS REGISTERED (2012-2022) 78

5.15.3 PUBLICATION TRENDS IN LAST 10 YEARS 78

FIGURE 25 NUMBER OF PATENTS IN LAST 10 YEARS 78

5.15.4 INSIGHTS 79

5.15.5	JURISDICTION ANALYSIS	79
FIGURE 26	TOP JURISDICTIONS	79
5.15.6	TOP APPLICANTS	79
FIGURE 27	TOP APPLICANTS' ANALYSIS	80
TABLE 12	PATENTS BY EVONIK OPERATIONS GMBH	80
TABLE 13	PATENTS BY ECOLAB INC.	80
TABLE 14	TOP 10 PATENT OWNERS (US) IN LAST 10 YEARS	81
6	NANOFILTRATION MARKET, BY TYPE	82
6.1	INTRODUCTION	83
FIGURE 28	POLYMERIC MEMBRANES TO REGISTER HIGHEST GROWTH DURING FORECAST PERIOD	83
TABLE 15	NANOFILTRATION MARKET, BY TYPE, 2019-2022 (USD MILLION)	83
TABLE 16	NANOFILTRATION MARKET, BY TYPE, 2023-2028 (USD MILLION)	84
TABLE 17	NANOFILTRATION MARKET, BY TYPE, 2019-2022 (MILLION SQUARE METER)	84
TABLE 18	NANOFILTRATION MARKET, BY TYPE, 2023-2028 (MILLION SQUARE METER)	84
6.2	POLYMERIC	84
6.2.1	POROSITY AND PERMEABILITY OF POLYMERIC MEMBRANES TO DRIVE MARKET	84
6.2.2	POLYAMIDE	85
6.2.3	POLYSULFONE AND POLYETHERSULFONE	85
6.2.4	OTHERS	86
6.3	CERAMIC	86
6.3.1	RESISTANCE TO CONCENTRATED ACIDS AND CAUSTIC SOLUTIONS TO FUEL MARKET	86
6.3.2	ZIRCONIA	87
6.3.3	ALUMINA	88
6.3.4	TITANIA	88
6.3.5	OTHERS	88
6.4	HYBRID	89
6.4.1	HYDROPHILICITY AND CHEMICAL STABILITY TO DRIVE MARKET	89
6.5	OTHER TYPES	89
7	NANOFILTRATION MARKET, BY MODULE	90
7.1	INTRODUCTION	91
FIGURE 29	SPIRAL WOUND SEGMENT TO RECORD FASTEST GROWTH DURING FORECAST PERIOD	91
TABLE 19	NANOFILTRATION MARKET, BY MODULE, 2019-2022 (USD MILLION)	91
TABLE 20	NANOFILTRATION MARKET, BY MODULE, 2023-2028 (USD MILLION)	92
TABLE 21	NANOFILTRATION MARKET, BY MODULE, 2019-2022 (MILLION SQUARE METER)	92
TABLE 22	NANOFILTRATION MARKET, BY MODULE, 2023-2028 (MILLION SQUARE METER)	92
7.2	SPIRAL WOUND	93
7.2.1	OPTIMAL PERFORMANCE AND COST-EFFECTIVENESS TO DRIVE MARKET	93
7.3	TUBULAR	93
7.3.1	EFFICIENT SEPARATION OF PARTICLES AND SOLUTES TO DRIVE MARKET	93
7.4	HOLLOW FIBER	94
7.4.1	HIGH SURFACE AREA AND EFFECTIVE REMOVAL OF CONTAMINANTS TO FUEL MARKET	94
7.5	FLAT SHEET	94
7.5.1	INCREASING FILTRATION REQUIREMENTS FROM VARIOUS INDUSTRIES TO DRIVE MARKET	94
7.6	OTHER MODULES	94
8	NANOFILTRATION MARKET, BY APPLICATION	95
8.1	INTRODUCTION	96
FIGURE 30	INDUSTRIAL TREATMENT TO GROW FASTER DURING FORECAST PERIOD	96

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

TABLE 23	NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	96
TABLE 24	NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	97
TABLE 25	NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	97
TABLE 26	NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	97
8.2	MUNICIPAL TREATMENT	97
8.2.1	NEED FOR WATER TREATMENT AND REUSE TO DRIVE MARKET	97
8.2.2	DESALINATION	98
8.2.3	UTILITY WATER TREATMENT	98
8.2.4	WASTEWATER REUSE	98
8.3	INDUSTRIAL TREATMENT	99
8.3.1	SELECTIVE SEPARATION OF IONS AND MOLECULES TO DRIVE MARKET	99
8.3.2	FOOD & BEVERAGE	99
8.3.2.1	Dairy processing	100
8.3.2.2	Food processing	100
8.3.2.3	Beverage processing	100
8.3.3	CHEMICAL & PETROCHEMICAL	101
8.3.4	PHARMACEUTICAL & MEDICAL	101
8.3.5	OTHERS	102
9	NANOFILTRATION MARKET, BY REGION	103
9.1	INTRODUCTION	104
FIGURE 31	INDIA TO BE FASTEST-GROWING MARKET DURING FORECAST PERIOD	104
TABLE 27	NANOFILTRATION MARKET, BY REGION, 2019-2022 (USD MILLION)	104
TABLE 28	NANOFILTRATION MARKET, BY REGION, 2023-2028 (USD MILLION)	105
TABLE 29	NANOFILTRATION MARKET, BY REGION, 2019-2022 (MILLION SQUARE METER)	105
TABLE 30	NANOFILTRATION MARKET, BY REGION, 2023-2028 (MILLION SQUARE METER)	105
9.2	ASIA PACIFIC	106
9.2.1	RECESSION IMPACT ON ASIA PACIFIC	107
FIGURE 32	ASIA PACIFIC: NANOFILTRATION MARKET SNAPSHOT	107
TABLE 31	ASIA PACIFIC: NANOFILTRATION MARKET, BY COUNTRY, 2019-2022 (USD MILLION)	108
TABLE 32	ASIA PACIFIC: NANOFILTRATION MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	108
TABLE 33	ASIA PACIFIC: NANOFILTRATION MARKET, BY COUNTRY, 2019-2022 (MILLION SQUARE METER)	108
TABLE 34	ASIA PACIFIC: NANOFILTRATION MARKET, BY COUNTRY, 2023-2028 (MILLION SQUARE METER)	109
TABLE 35	ASIA PACIFIC: NANOFILTRATION MARKET, BY TYPE, 2019-2022 (USD MILLION)	109
TABLE 36	ASIA PACIFIC: NANOFILTRATION MARKET, BY TYPE, 2023-2028 (USD MILLION)	109
TABLE 37	ASIA PACIFIC: NANOFILTRATION MARKET, BY TYPE, 2019-2022 (MILLION SQUARE METER)	110
TABLE 38	ASIA PACIFIC: NANOFILTRATION MARKET, BY TYPE, 2023-2028 (MILLION SQUARE METER)	110
TABLE 39	ASIA PACIFIC: NANOFILTRATION MARKET, BY MODULE, 2019-2022 (USD MILLION)	110
TABLE 40	ASIA PACIFIC: NANOFILTRATION MARKET, BY MODULE, 2023-2028 (USD MILLION)	110
TABLE 41	ASIA PACIFIC: NANOFILTRATION MARKET, BY MODULE, 2019-2022 (MILLION SQUARE METER)	111
TABLE 42	ASIA PACIFIC: NANOFILTRATION MARKET, BY MODULE, 2023-2028 (MILLION SQUARE METER)	111
TABLE 43	ASIA PACIFIC: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	111
TABLE 44	ASIA PACIFIC: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	111
TABLE 45	ASIA PACIFIC: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	112
TABLE 46	ASIA PACIFIC: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	112
9.2.2	CHINA	112
9.2.2.1	Implementing clean-up strategies and water pollution prevention laws to drive market	112
TABLE 47	CHINA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	113

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

TABLE 48	CHINA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	113
TABLE 49	CHINA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	113
TABLE 50	CHINA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	113
9.2.3	JAPAN	114
9.2.3.1	Development of advanced technologies and industrial sector to fuel market	114
TABLE 51	JAPAN: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	114
TABLE 52	JAPAN: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	115
TABLE 53	JAPAN: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	115
TABLE 54	JAPAN: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	115
9.2.4	INDIA	116
9.2.4.1	Growing demand from end-use industries to drive market	116
TABLE 55	INDIA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	117
TABLE 56	INDIA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	117
TABLE 57	INDIA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	117
TABLE 58	INDIA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	117
9.2.5	SOUTH KOREA	118
9.2.5.1	Rising demand from food & beverage industry to boost market	118
TABLE 59	SOUTH KOREA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	118
TABLE 60	SOUTH KOREA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	119
TABLE 61	SOUTH KOREA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	119
TABLE 62	SOUTH KOREA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	119
9.2.6	REST OF ASIA PACIFIC	119
TABLE 63	REST OF ASIA PACIFIC: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	120
TABLE 64	REST OF ASIA PACIFIC: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	120
TABLE 65	REST OF ASIA PACIFIC: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	121
TABLE 66	REST OF ASIA PACIFIC: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	121
9.3	EUROPE	121
9.3.1	RECESSION IMPACT ON EUROPE	122
FIGURE 33	SPIRAL WOUND TYPE TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD	122
TABLE 67	EUROPE: NANOFILTRATION MARKET, BY COUNTRY, 2019-2022 (USD MILLION)	122
TABLE 68	EUROPE: NANOFILTRATION MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	123
TABLE 69	EUROPE: NANOFILTRATION MARKET, BY COUNTRY, 2019-2022 (MILLION SQUARE METER)	123
TABLE 70	EUROPE: NANOFILTRATION MARKET, BY COUNTRY, 2023-2028 (MILLION SQUARE METER)	123
TABLE 71	EUROPE: NANOFILTRATION MARKET, BY TYPE, 2019-2022 (USD MILLION)	124
TABLE 72	EUROPE: NANOFILTRATION MARKET, BY TYPE, 2023-2028 (USD MILLION)	124
TABLE 73	EUROPE: NANOFILTRATION MARKET, BY TYPE, 2019-2022 (MILLION SQUARE METER)	124
TABLE 74	EUROPE: NANOFILTRATION MARKET, BY TYPE, 2023-2028 (MILLION SQUARE METER)	124
TABLE 75	EUROPE: NANOFILTRATION MARKET, BY MODULE, 2019-2022 (USD MILLION)	125
TABLE 76	EUROPE: NANOFILTRATION MARKET, BY MODULE, 2023-2028 (USD MILLION)	125
TABLE 77	EUROPE: NANOFILTRATION MARKET, BY MODULE, 2019-2022 (MILLION SQUARE METER)	125
TABLE 78	EUROPE: NANOFILTRATION MARKET, BY MODULE, 2023-2028 (MILLION SQUARE METER)	126
TABLE 79	EUROPE: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	126
TABLE 80	EUROPE: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	126
TABLE 81	EUROPE: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	126
TABLE 82	EUROPE: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	127
9.3.2	GERMANY	127
9.3.2.1	Highest EU standards for wastewater treatment to drive growth	127

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)



TABLE 83	GERMANY: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	127
TABLE 84	GERMANY: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	128
TABLE 85	GERMANY: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	128
TABLE 86	GERMANY: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	128
9.3.3		
9.3.3.1		
Rapid urbanization and industrialization to drive market		
TABLE 87	UK: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	129
TABLE 88	UK: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	129
TABLE 89	UK: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	129
TABLE 90	UK: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	129
9.3.4		
FRANCE		
9.3.4.1		
Advancements in water treatment infrastructure to boost market		
TABLE 91	FRANCE: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	130
TABLE 92	FRANCE: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	130
TABLE 93	FRANCE: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	131
TABLE 94	FRANCE: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	131
9.3.5		
ITALY		
9.3.5.1		
Rising demand from pharmaceutical sector to drive market		
TABLE 95	ITALY: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	132
TABLE 96	ITALY: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	132
TABLE 97	ITALY: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	132
TABLE 98	ITALY: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	132
9.3.6		
SPAIN		
9.3.6.1		
High production of desalinated water to fuel demand for nanofiltration membranes		
TABLE 99	SPAIN: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	133
TABLE 100	SPAIN: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	133
TABLE 101	SPAIN: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	134
TABLE 102	SPAIN: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	134
9.3.7		
NETHERLANDS		
9.3.7.1		
Well-organized water supply system and sewage facilities to drive growth		
TABLE 103	NETHERLANDS: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	134
TABLE 104	NETHERLANDS: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	135
TABLE 105	NETHERLANDS: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	135
TABLE 106	NETHERLANDS: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	135
9.3.8		
REST OF EUROPE		
TABLE 107	REST OF EUROPE: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	136
TABLE 108	REST OF EUROPE: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	136
TABLE 109	REST OF EUROPE: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	136
TABLE 110	REST OF EUROPE: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	136
9.4		
NORTH AMERICA		
9.4.1		
RECESSION IMPACT ON NORTH AMERICA		
FIGURE 34	NORTH AMERICA: NANOFILTRATION MARKET SNAPSHOT	138
TABLE 111	NORTH AMERICA: NANOFILTRATION MARKET, BY COUNTRY, 2019-2022 (USD MILLION)	138
TABLE 112	NORTH AMERICA: NANOFILTRATION MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	139
TABLE 113	NORTH AMERICA: NANOFILTRATION MARKET, BY COUNTRY, 2019-2022 (MILLION SQUARE METER)	139
TABLE 114	NORTH AMERICA: NANOFILTRATION MARKET, BY COUNTRY, 2023-2028 (MILLION SQUARE METER)	139
TABLE 115	NORTH AMERICA: NANOFILTRATION MARKET, BY TYPE, 2019-2022 (USD MILLION)	139

TABLE 116	NORTH AMERICA: NANOFILTRATION MARKET, BY TYPE, 2023-2028 (USD MILLION)	140
TABLE 117	NORTH AMERICA: NANOFILTRATION MARKET, BY TYPE, 2019-2022 (MILLION SQUARE METER)	140
TABLE 118	NORTH AMERICA: NANOFILTRATION MARKET, BY TYPE, 2023-2028 (MILLION SQUARE METER)	140
TABLE 119	NORTH AMERICA: NANOFILTRATION MARKET, BY MODULE, 2019-2022 (USD MILLION)	140
TABLE 120	NORTH AMERICA: NANOFILTRATION MARKET, BY MODULE, 2023-2028 (USD MILLION)	141
TABLE 121	NORTH AMERICA: NANOFILTRATION MARKET, BY MODULE, 2019-2022 (MILLION SQUARE METER)	141
TABLE 122	NORTH AMERICA: NANOFILTRATION MARKET, BY MODULE, 2023-2028 (MILLION SQUARE METER)	141
TABLE 123	NORTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	141
TABLE 124	NORTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	142
TABLE 125	NORTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	142
TABLE 126	NORTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	142
9.4.2	US	142
9.4.2.1	Various government initiatives for wastewater treatment to drive market	142
TABLE 127	US: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	143
TABLE 128	US: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	143
TABLE 129	US: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	143
TABLE 130	US: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	143
9.4.3	CANADA	144
9.4.3.1	State- and national-level municipal regulations to drive growth	144
TABLE 131	CANADA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	144
TABLE 132	CANADA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	144
TABLE 133	CANADA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	145
TABLE 134	CANADA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	145
9.4.4	MEXICO	145
9.4.4.1	High demand from manufacturing and agriculture sector to fuel market	145
TABLE 135	MEXICO: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	146
TABLE 136	MEXICO: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	146
TABLE 137	MEXICO: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	146
TABLE 138	MEXICO: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	146
9.5	MIDDLE EAST & AFRICA	147
9.5.1	RECESSION IMPACT ON MIDDLE EAST & AFRICA	147
TABLE 139	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY COUNTRY, 2019-2022 (USD MILLION)	147
TABLE 140	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY COUNTRY, 2023-2028 (USD MILLION)	148
TABLE 141	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY COUNTRY, 2019-2022 (MILLION SQUARE METER)	148
TABLE 142	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY COUNTRY, 2023-2028 (MILLION SQUARE METER)	148
TABLE 143	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY TYPE, 2019-2022 (USD MILLION)	149
TABLE 144	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY TYPE, 2023-2028 (USD MILLION)	149
TABLE 145	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY TYPE, 2019-2022 (MILLION SQUARE METER)	149
TABLE 146	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY TYPE, 2023-2028 (MILLION SQUARE METER)	149
TABLE 147	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY MODULE, 2019-2022 (USD MILLION)	150
TABLE 148	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY MODULE, 2023-2028 (USD MILLION)	150
TABLE 149	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY MODULE, 2019-2022 (MILLION SQUARE METER)	150
TABLE 150	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY MODULE, 2023-2028 (MILLION SQUARE METER)	151
TABLE 151	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	151
TABLE 152	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	151
TABLE 153	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	151
TABLE 154	MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	152

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## 9.5.2 SAUDI ARABIA 152

### 9.5.2.1 Growth of tourism and chemical industry to drive market 152

TABLE 155 SAUDI ARABIA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 153

TABLE 156 SAUDI ARABIA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 153

TABLE 157 SAUDI ARABIA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER) 153

TABLE 158 SAUDI ARABIA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER) 153

## 9.5.3 UAE 154

### 9.5.3.1 New water treatment infrastructure and sustainable practices to drive market 154

TABLE 159 UAE: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 154

TABLE 160 UAE: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 154

TABLE 161 UAE: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER) 155

TABLE 162 UAE: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER) 155

## 9.5.4 QATAR 155

### 9.5.4.1 Reuse of treated wastewater for industrial and irrigation purposes to drive market 155

TABLE 163 QATAR: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 155

TABLE 164 QATAR: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 156

TABLE 165 QATAR: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER) 156

TABLE 166 QATAR: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER) 156

## 9.5.5 OMAN 156

### 9.5.5.1 Increasing domestic and industrial water requirements to fuel market 156

TABLE 167 OMAN: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 157

TABLE 168 OMAN: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 157

TABLE 169 OMAN: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER) 157

TABLE 170 OMAN: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER) 157

## 9.5.6 REST OF MIDDLE EAST & AFRICA 158

TABLE 171 REST OF MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 158

TABLE 172 REST OF MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 158

TABLE 173 REST OF MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER) 159

TABLE 174 REST OF MIDDLE EAST & AFRICA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER) 159

## 9.6 SOUTH AMERICA 159

TABLE 175 SOUTH AMERICA: NANOFILTRATION MARKET, BY COUNTRY, 2019-2022 (USD MILLION) 159

TABLE 176 SOUTH AMERICA: NANOFILTRATION MARKET, BY COUNTRY, 2023-2028 (USD MILLION) 160

TABLE 177 SOUTH AMERICA: NANOFILTRATION MARKET, BY COUNTRY, 2019-2022 (MILLION SQUARE METER) 160

TABLE 178 SOUTH AMERICA: NANOFILTRATION MARKET, BY COUNTRY, 2023-2028 (MILLION SQUARE METER) 160

TABLE 179 SOUTH AMERICA: NANOFILTRATION MARKET, BY TYPE, 2019-2022 (USD MILLION) 160

TABLE 180 SOUTH AMERICA: NANOFILTRATION MARKET, BY TYPE, 2023-2028 (USD MILLION) 161

TABLE 181 SOUTH AMERICA: NANOFILTRATION MARKET, BY TYPE, 2019-2022 (MILLION SQUARE METER) 161

TABLE 182 SOUTH AMERICA: NANOFILTRATION MARKET, BY TYPE, 2023-2028 (MILLION SQUARE METER) 161

TABLE 183 SOUTH AMERICA: NANOFILTRATION MARKET, BY MODULE, 2019-2022 (USD MILLION) 161

TABLE 184 SOUTH AMERICA: NANOFILTRATION MARKET, BY MODULE, 2023-2028 (USD MILLION) 162

TABLE 185 SOUTH AMERICA: NANOFILTRATION MARKET, BY MODULE, 2019-2022 (MILLION SQUARE METER) 162

TABLE 186 SOUTH AMERICA: NANOFILTRATION MARKET, BY MODULE, 2023-2028 (MILLION SQUARE METER) 162

TABLE 187 SOUTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION) 163

TABLE 188 SOUTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION) 163

TABLE 189 SOUTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER) 163

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

TABLE 190	SOUTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	163
9.6.1	BRAZIL	164
9.6.1.1	Smart water management techniques and foreign investments to drive growth	164
TABLE 191	BRAZIL: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	164
TABLE 192	BRAZIL: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	165
TABLE 193	BRAZIL: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	165
TABLE 194	BRAZIL: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	165
9.6.2	CHILE	165
9.6.2.1	Well-developed water supply channels and use of sustainable resources to drive market	165
TABLE 195	CHILE: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	166
TABLE 196	CHILE: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	166
TABLE 197	CHILE: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	166
TABLE 198	CHILE: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	166
9.6.3	REST OF SOUTH AMERICA	167
TABLE 199	REST OF SOUTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (USD MILLION)	167
TABLE 200	REST OF SOUTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (USD MILLION)	167
TABLE 201	REST OF SOUTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2019-2022 (MILLION SQUARE METER)	168
TABLE 202	REST OF SOUTH AMERICA: NANOFILTRATION MARKET, BY APPLICATION, 2023-2028 (MILLION SQUARE METER)	168
10	COMPETITIVE LANDSCAPE	169
10.1	OVERVIEW	169
10.2	STRATEGIES ADOPTED BY KEY PLAYERS	170
TABLE 203	COMPANIES ADOPTED ACQUISITION AS KEY GROWTH STRATEGY BETWEEN 2018 AND 2023	170
10.3	REVENUE ANALYSIS	171
TABLE 204	REVENUE ANALYSIS OF KEY COMPANIES, 2020-2022	171
10.4	RANKING OF KEY PLAYERS	172
FIGURE 35	RANKING OF TOP FIVE PLAYERS IN NANOFILTRATION MARKET	172
10.5	MARKET SHARE ANALYSIS	173
FIGURE 36	NANOFILTRATION MARKET SHARE, BY COMPANY (2022)	174
TABLE 205	NANOFILTRATION MARKET: DEGREE OF COMPETITION	174
10.6	COMPANY EVALUATION MATRIX	174
10.6.1	STARS	174
10.6.2	PERVASIVE PLAYERS	174
10.6.3	EMERGING LEADERS	175
10.6.4	PARTICIPANTS	175
FIGURE 37	NANOFILTRATION MARKET: COMPANY EVALUATION MATRIX, 2022	175
10.7	STARTUP/SME EVALUATION MATRIX	175
10.7.1	PROGRESSIVE COMPANIES	175
10.7.2	RESPONSIVE COMPANIES	176
10.7.3	STARTING BLOCKS	176
10.7.4	DYNAMIC COMPANIES	176
FIGURE 38	NANOFILTRATION MARKET: STARTUP/SME EVALUATION MATRIX, 2022	176
10.8	COMPETITIVE BENCHMARKING	177
TABLE 206	COMPANIES IN NANOFILTRATION MARKET	177
TABLE 207	NANOFILTRATION MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS, BY TYPE	178
TABLE 208	NANOFILTRATION MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS, BY MODULE	178
TABLE 209	NANOFILTRATION MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS, BY APPLICATION	179
TABLE 210	NANOFILTRATION MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS, BY REGION	179

10.9	COMPETITIVE SCENARIO AND TRENDS	180
10.9.1	PRODUCT LAUNCHES	180
TABLE 211	NANOFILTRATION: PRODUCT LAUNCHES/DEVELOPMENTS, 2018-2023	180
10.9.2	DEALS	181
TABLE 212	NANOFILTRATION: DEALS, 2018-2023	182
10.9.3	OTHERS	183
TABLE 213	NANOFILTRATION: OTHERS, 2018-2023	183
?		
11	COMPANY PROFILES	186
	(Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats)*	
11.1	KEY PLAYERS	186
11.1.1	DUPONT	186
TABLE 214	DUPONT: COMPANY OVERVIEW	186
FIGURE 39	DUPONT: COMPANY SNAPSHOT	187
TABLE 215	DUPONT: PRODUCTS OFFERED	187
TABLE 216	DUPONT: DEALS	189
TABLE 217	DUPONT: OTHER DEVELOPMENTS	189
11.1.2	TORAY INDUSTRIES, INC.	191
TABLE 218	TORAY INDUSTRIES, INC.: COMPANY OVERVIEW	191
FIGURE 40	TORAY INDUSTRIES, INC.: COMPANY SNAPSHOT	192
TABLE 219	TORAY INDUSTRIES, INC.: PRODUCTS OFFERED	192
TABLE 220	TORAY INDUSTRIES, INC.: PRODUCT LAUNCHES	194
TABLE 221	TORAY INDUSTRIES, INC.: OTHER DEVELOPMENTS	194
11.1.3	VEOLIA	196
TABLE 222	VEOLIA: COMPANY OVERVIEW	196
FIGURE 41	VEOLIA: COMPANY SNAPSHOT	197
TABLE 223	VEOLIA: PRODUCTS OFFERED	197
TABLE 224	VEOLIA: DEALS	199
TABLE 225	VEOLIA: PRODUCT LAUNCHES	199
TABLE 226	VEOLIA: OTHER DEVELOPMENTS	199
11.1.4	ALFA LAVAL	201
TABLE 227	ALFA LAVAL: COMPANY OVERVIEW	201
FIGURE 42	ALFA LAVAL: COMPANY SNAPSHOT	202
TABLE 228	ALFA LAVAL: PRODUCTS OFFERED	202
TABLE 229	ALFA LAVAL: DEALS	203
11.1.5	GEA GROUP	205
TABLE 230	GEA GROUP: COMPANY OVERVIEW	205
FIGURE 43	GEA GROUP: COMPANY SNAPSHOT	206
TABLE 231	GEA GROUP: PRODUCTS OFFERED	206
TABLE 232	GEA GROUP: PRODUCT LAUNCHES	207
11.1.6	HYDRANAUTICS	208
TABLE 233	HYDRANAUTICS: COMPANY OVERVIEW	208
TABLE 234	HYDRANAUTICS: PRODUCTS OFFERED	208
TABLE 235	HYDRANAUTICS: PRODUCT LAUNCHES	210
11.1.7	NX FILTRATION BV	211
TABLE 236	NX FILTRATION BV: COMPANY OVERVIEW	211

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

FIGURE 44	NX FILTRATION BV: COMPANY SNAPSHOT	212
TABLE 237	NX FILTRATION BV: PRODUCTS OFFERED	212
TABLE 238	NX FILTRATION BV: OTHER DEVELOPMENTS	213
11.1.8	PALL CORPORATION	215
TABLE 239	PALL CORPORATION: COMPANY OVERVIEW	215
TABLE 240	PALL CORPORATION: PRODUCTS OFFERED	215
TABLE 241	PALL CORPORATION: OTHER DEVELOPMENTS	216
11.1.9	VONTRON TECHNOLOGY CO., LTD.	217
TABLE 242	VONTRON TECHNOLOGY CO., LTD.: COMPANY OVERVIEW	217
TABLE 243	VONTRON TECHNOLOGY CO., LTD.: PRODUCTS OFFERED	217
11.1.10	PENTAIR	219
TABLE 244	PENTAIR: COMPANY OVERVIEW	219
FIGURE 45	PENTAIR: COMPANY SNAPSHOT	219
TABLE 245	PENTAIR: PRODUCTS OFFERED	220
TABLE 246	PENTAIR: DEALS	220
11.1.11	KOCH MEMBRANE SYSTEMS	221
TABLE 247	KOCH MEMBRANE SYSTEMS: COMPANY OVERVIEW	221
TABLE 248	KOCH MEMBRANE SYSTEMS: PRODUCTS OFFERED	221
TABLE 249	KOCH MEMBRANE SYSTEMS: DEALS	222
TABLE 250	KOCH MEMBRANE SYSTEMS: PRODUCT LAUNCHES	223
TABLE 251	KOCH MEMBRANE SYSTEMS: OTHER DEVELOPMENTS	223
11.1.12	INOPOR	225
TABLE 252	INOPOR: COMPANY OVERVIEW	225
TABLE 253	INOPOR: PRODUCTS OFFERED	225
11.2	OTHER PLAYERS	227
11.2.1	SYNDER FILTRATION, INC.	227
11.2.2	SOLSEP BV	227
11.2.3	RISINGSUN MEMBRANE TECHNOLOGY (BEIJING) CO., LTD.	228
11.2.4	UNISOL MEMBRANE TECHNOLOGY	229
11.2.5	MEMBRANIUM	230
11.2.6	KEENSEN TECHNOLOGY CO., LTD.	231
11.2.7	JOZZON MEMBRANE TECHNOLOGY CO., LTD.	232
11.2.8	WAVE CYBER?SHANGHAI?CO., LTD.	233
11.2.9	MANN+HUMMEL	234
11.2.10	APPLIED MEMBRANES, INC.	235
11.2.11	SPX FLOW	236
11.2.12	ORIGINWATER	236
11.2.13	NOVASEP	237
*Details on Business Overview, Products/Solutions/Services Offered, Recent Developments, MnM view (Key strengths/Right to win, Strategic choices made, Weakness/competitive threats)* might not be captured in case of unlisted companies.		
12	APPENDIX	238
12.1	DISCUSSION GUIDE	238
12.2	KNOWLEDGESTORE: MARKETSandMARKETS' SUBSCRIPTION PORTAL	241
12.3	CUSTOMIZATION OPTIONS	243
12.4	RELATED REPORTS	243
12.5	AUTHOR DETAILS	244

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

**Nanofiltration Membrane Market by Type (Polymeric, Ceramic, Hybrid), Module (Spiral Wound, Tubular, Hollow Fiber, Flat Sheet), Application (Municipal, Industrial), And Region (North America, Europe, Apac, South America, MEA) - Global Forecast to 2028**

Market Report | 2023-09-11 | 235 pages | MarketsandMarkets

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

**ORDER FORM:**

Select license	License	Price
	Single User	\$4950.00
	Multi User	\$6650.00
	Corporate License	\$8150.00
	Enterprise Site License	\$10000.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	2025-05-20
		Signature	<div></div>