

# Global Thin Film Nanocomposite (TFN) Membrane Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Thin Film Nanocomposite (TFN) Membrane market size is expected to reach \$ 244 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

Thin Film Nanocomposite (TFN) membranes are advanced separation materials that incorporate inorganic nanoparticles (e.g., zeolites, silica, graphene oxide) into the polyamide layer of Thin Film Composite (TFC) membranes. Designed primarily for high-performance water treatment, they enhance flux, salt rejection, and fouling resistance. TFNs improve permeability by increasing hydrophilicity, often termed 'nanomaterial interlayer' (TFNi) membranes when using a specific interlayer approach.

**Market Size:** In 2025, the global production volume of Thin Film Nanocomposite (TFN) membranes reached 420 k units, with an average selling price of \$400 per unit and a total production capacity of approximately 500 k units.

**Gross Margin:** The industry's gross margin stands at approximately 35%-40%.

**Cost Structure:** Direct materials account for approximately 70% of costs, manufacturing overhead for about 22%, and labor costs for roughly 8%.

**Industry Chain:** The upstream segment consists of suppliers of raw materials such as m-phenylenediamine, trimesoyl chloride, polyamide, and nanofillers while the downstream segment comprises industries such as seawater desalination and water treatment.

This report studies the global Thin Film Nanocomposite (TFN) Membrane production,

demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thin Film Nanocomposite (TFN) Membrane and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Thin Film Nanocomposite (TFN) Membrane that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thin Film Nanocomposite (TFN) Membrane total production and demand, 2021-2032, (K Pcs)

Global Thin Film Nanocomposite (TFN) Membrane total production value, 2021-2032, (USD Million)

Global Thin Film Nanocomposite (TFN) Membrane production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Thin Film Nanocomposite (TFN) Membrane consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Thin Film Nanocomposite (TFN) Membrane domestic production, consumption, key domestic manufacturers and share

Global Thin Film Nanocomposite (TFN) Membrane production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Thin Film Nanocomposite (TFN) Membrane production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Thin Film Nanocomposite (TFN) Membrane production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Thin Film Nanocomposite (TFN) Membrane market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include LG Chem, SUEZ, Proshare Innovation, HJC, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Thin Film Nanocomposite (TFN) Membrane market

### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

### Global Thin Film Nanocomposite (TFN) Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### Global Thin Film Nanocomposite (TFN) Membrane Market, Segmentation by Type:

TFN RO Membrane

TFN Nanofiltration Membrane

TFN Ultrafiltration Membrane

TFN Specialty Membrane

## Global Thin Film Nanocomposite (TFN) Membrane Market, Segmentation by Water Flux:

Water Flux 10000GPD

## Global Thin Film Nanocomposite (TFN) Membrane Market, Segmentation by Application:

Seawater Desalination

Industrial Water Treatment

Municipal Water Treatment

Others

## Companies Profiled:

LG Chem

SUEZ

Proshare Innovation

HJC

## Key Questions Answered:

1. How big is the global Thin Film Nanocomposite (TFN) Membrane market?
2. What is the demand of the global Thin Film Nanocomposite (TFN) Membrane market?
3. What is the year over year growth of the global Thin Film Nanocomposite (TFN) Membrane market?
4. What is the production and production value of the global Thin Film Nanocomposite (TFN) Membrane market?
5. Who are the key producers in the global Thin Film Nanocomposite (TFN) Membrane market?

6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Thin Film Nanocomposite (TFN) Membrane Introduction
- 1.2 World Thin Film Nanocomposite (TFN) Membrane Supply & Forecast
  - 1.2.1 World Thin Film Nanocomposite (TFN) Membrane Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Thin Film Nanocomposite (TFN) Membrane Production (2021-2032)
  - 1.2.3 World Thin Film Nanocomposite (TFN) Membrane Pricing Trends (2021-2032)
- 1.3 World Thin Film Nanocomposite (TFN) Membrane Production by Region (Based on Production Site)
  - 1.3.1 World Thin Film Nanocomposite (TFN) Membrane Production Value by Region (2021-2032)
  - 1.3.2 World Thin Film Nanocomposite (TFN) Membrane Production by Region (2021-2032)
  - 1.3.3 World Thin Film Nanocomposite (TFN) Membrane Average Price by Region (2021-2032)
  - 1.3.4 South Korea Thin Film Nanocomposite (TFN) Membrane Production (2021-2032)
  - 1.3.5 Europe Thin Film Nanocomposite (TFN) Membrane Production (2021-2032)
  - 1.3.6 China Thin Film Nanocomposite (TFN) Membrane Production (2021-2032)
  - 1.3.7 North America Thin Film Nanocomposite (TFN) Membrane Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Thin Film Nanocomposite (TFN) Membrane Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Thin Film Nanocomposite (TFN) Membrane Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Thin Film Nanocomposite (TFN) Membrane Demand (2021-2032)
- 2.2 World Thin Film Nanocomposite (TFN) Membrane Consumption by Region
  - 2.2.1 World Thin Film Nanocomposite (TFN) Membrane Consumption by Region (2021-2026)
  - 2.2.2 World Thin Film Nanocomposite (TFN) Membrane Consumption Forecast by Region (2027-2032)
- 2.3 United States Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032)
- 2.4 China Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032)

- 2.5 Europe Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032)
- 2.6 Japan Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032)
- 2.7 South Korea Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032)
- 2.8 ASEAN Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032)
- 2.9 India Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Thin Film Nanocomposite (TFN) Membrane Production Value by Manufacturer (2021-2026)
- 3.2 World Thin Film Nanocomposite (TFN) Membrane Production by Manufacturer (2021-2026)
- 3.3 World Thin Film Nanocomposite (TFN) Membrane Average Price by Manufacturer (2021-2026)
- 3.4 Thin Film Nanocomposite (TFN) Membrane Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Thin Film Nanocomposite (TFN) Membrane Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Thin Film Nanocomposite (TFN) Membrane in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Thin Film Nanocomposite (TFN) Membrane in 2025
- 3.6 Thin Film Nanocomposite (TFN) Membrane Market: Overall Company Footprint Analysis
  - 3.6.1 Thin Film Nanocomposite (TFN) Membrane Market: Region Footprint
  - 3.6.2 Thin Film Nanocomposite (TFN) Membrane Market: Company Product Type Footprint
  - 3.6.3 Thin Film Nanocomposite (TFN) Membrane Market: Company Product Application Footprint
- 3.7 Competitive Environment
  - 3.7.1 Historical Structure of the Industry
  - 3.7.2 Barriers of Market Entry
  - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

### **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

- 4.1 United States VS China: Thin Film Nanocomposite (TFN) Membrane Production

## Value Comparison

4.1.1 United States VS China: Thin Film Nanocomposite (TFN) Membrane Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Thin Film Nanocomposite (TFN) Membrane Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Thin Film Nanocomposite (TFN) Membrane Production Comparison

4.2.1 United States VS China: Thin Film Nanocomposite (TFN) Membrane Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Thin Film Nanocomposite (TFN) Membrane Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Thin Film Nanocomposite (TFN) Membrane Consumption Comparison

4.3.1 United States VS China: Thin Film Nanocomposite (TFN) Membrane Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Thin Film Nanocomposite (TFN) Membrane Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Thin Film Nanocomposite (TFN) Membrane Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Thin Film Nanocomposite (TFN) Membrane Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Value (2021-2026)

4.4.3 United States Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production (2021-2026)

4.5 China Based Thin Film Nanocomposite (TFN) Membrane Manufacturers and Market Share

4.5.1 China Based Thin Film Nanocomposite (TFN) Membrane Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Value (2021-2026)

4.5.3 China Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production (2021-2026)

4.6 Rest of World Based Thin Film Nanocomposite (TFN) Membrane Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Thin Film Nanocomposite (TFN) Membrane Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Value (2021-2026)

#### 4.6.3 Rest of World Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production (2021-2026)

### 5 MARKET ANALYSIS BY TYPE

#### 5.1 World Thin Film Nanocomposite (TFN) Membrane Market Size Overview by Type: 2021 VS 2025 VS 2032

#### 5.2 Segment Introduction by Type

##### 5.2.1 TFN RO Membrane

##### 5.2.2 TFN Nanofiltration Membrane

##### 5.2.3 TFN Ultrafiltration Membrane

##### 5.2.4 TFN Specialty Membrane

#### 5.3 Market Segment by Type

##### 5.3.1 World Thin Film Nanocomposite (TFN) Membrane Production by Type (2021-2032)

##### 5.3.2 World Thin Film Nanocomposite (TFN) Membrane Production Value by Type (2021-2032)

##### 5.3.3 World Thin Film Nanocomposite (TFN) Membrane Average Price by Type (2021-2032)

### 6 MARKET ANALYSIS BY WATER FLUX

#### 6.1 World Thin Film Nanocomposite (TFN) Membrane Market Size Overview by Water Flux: 2021 VS 2025 VS 2032

#### 6.2 Segment Introduction by Water Flux

##### 6.2.1 Water Flux 10000GPD

#### 6.3 Market Segment by Water Flux

##### 6.3.1 World Thin Film Nanocomposite (TFN) Membrane Production by Water Flux (2021-2032)

##### 6.3.2 World Thin Film Nanocomposite (TFN) Membrane Production Value by Water Flux (2021-2032)

##### 6.3.3 World Thin Film Nanocomposite (TFN) Membrane Average Price by Water Flux (2021-2032)

### 7 MARKET ANALYSIS BY APPLICATION

#### 7.1 World Thin Film Nanocomposite (TFN) Membrane Market Size Overview by Application: 2021 VS 2025 VS 2032

#### 7.2 Segment Introduction by Application

- 7.2.1 Seawater Desalination
- 7.2.2 Industrial Water Treatment
- 7.2.3 Municipal Water Treatment
- 7.2.4 Others
- 7.3 Market Segment by Application
  - 7.3.1 World Thin Film Nanocomposite (TFN) Membrane Production by Application (2021-2032)
  - 7.3.2 World Thin Film Nanocomposite (TFN) Membrane Production Value by Application (2021-2032)
  - 7.3.3 World Thin Film Nanocomposite (TFN) Membrane Average Price by Application (2021-2032)

## **8 COMPANY PROFILES**

- 8.1 LG Chem
  - 8.1.1 LG Chem Details
  - 8.1.2 LG Chem Major Business
  - 8.1.3 LG Chem Thin Film Nanocomposite (TFN) Membrane Product and Services
  - 8.1.4 LG Chem Thin Film Nanocomposite (TFN) Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.1.5 LG Chem Recent Developments/Updates
  - 8.1.6 LG Chem Competitive Strengths & Weaknesses
- 8.2 SUEZ
  - 8.2.1 SUEZ Details
  - 8.2.2 SUEZ Major Business
  - 8.2.3 SUEZ Thin Film Nanocomposite (TFN) Membrane Product and Services
  - 8.2.4 SUEZ Thin Film Nanocomposite (TFN) Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.2.5 SUEZ Recent Developments/Updates
  - 8.2.6 SUEZ Competitive Strengths & Weaknesses
- 8.3 Proshare Innovation
  - 8.3.1 Proshare Innovation Details
  - 8.3.2 Proshare Innovation Major Business
  - 8.3.3 Proshare Innovation Thin Film Nanocomposite (TFN) Membrane Product and Services
  - 8.3.4 Proshare Innovation Thin Film Nanocomposite (TFN) Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 8.3.5 Proshare Innovation Recent Developments/Updates
  - 8.3.6 Proshare Innovation Competitive Strengths & Weaknesses

## 8.4 HJC

### 8.4.1 HJC Details

### 8.4.2 HJC Major Business

### 8.4.3 HJC Thin Film Nanocomposite (TFN) Membrane Product and Services

### 8.4.4 HJC Thin Film Nanocomposite (TFN) Membrane Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 8.4.5 HJC Recent Developments/Updates

### 8.4.6 HJC Competitive Strengths & Weaknesses

## 9 INDUSTRY CHAIN ANALYSIS

### 9.1 Thin Film Nanocomposite (TFN) Membrane Industry Chain

### 9.2 Thin Film Nanocomposite (TFN) Membrane Upstream Analysis

#### 9.2.1 Thin Film Nanocomposite (TFN) Membrane Core Raw Materials

#### 9.2.2 Main Manufacturers of Thin Film Nanocomposite (TFN) Membrane Core Raw Materials

### 9.3 Midstream Analysis

### 9.4 Downstream Analysis

### 9.5 Thin Film Nanocomposite (TFN) Membrane Production Mode

### 9.6 Thin Film Nanocomposite (TFN) Membrane Procurement Model

### 9.7 Thin Film Nanocomposite (TFN) Membrane Industry Sales Model and Sales Channels

#### 9.7.1 Thin Film Nanocomposite (TFN) Membrane Sales Model

#### 9.7.2 Thin Film Nanocomposite (TFN) Membrane Typical Distributors

## 10 RESEARCH FINDINGS AND CONCLUSION

## 11 APPENDIX

### 11.1 Methodology

### 11.2 Research Process and Data Source

### 11.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Thin Film Nanocomposite (TFN) Membrane Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Thin Film Nanocomposite (TFN) Membrane Production Value by Region (2021-2026) & (USD Million)

Table 3. World Thin Film Nanocomposite (TFN) Membrane Production Value by Region (2027-2032) & (USD Million)

Table 4. World Thin Film Nanocomposite (TFN) Membrane Production Value Market Share by Region (2021-2026)

Table 5. World Thin Film Nanocomposite (TFN) Membrane Production Value Market Share by Region (2027-2032)

Table 6. World Thin Film Nanocomposite (TFN) Membrane Production by Region (2021-2026) & (K Pcs)

Table 7. World Thin Film Nanocomposite (TFN) Membrane Production by Region (2027-2032) & (K Pcs)

Table 8. World Thin Film Nanocomposite (TFN) Membrane Production Market Share by Region (2021-2026)

Table 9. World Thin Film Nanocomposite (TFN) Membrane Production Market Share by Region (2027-2032)

Table 10. World Thin Film Nanocomposite (TFN) Membrane Average Price by Region (2021-2026) & (US\$/Pc)

Table 11. World Thin Film Nanocomposite (TFN) Membrane Average Price by Region (2027-2032) & (US\$/Pc)

Table 12. Thin Film Nanocomposite (TFN) Membrane Major Market Trends

Table 13. World Thin Film Nanocomposite (TFN) Membrane Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Pcs)

Table 14. World Thin Film Nanocomposite (TFN) Membrane Consumption by Region (2021-2026) & (K Pcs)

Table 15. World Thin Film Nanocomposite (TFN) Membrane Consumption Forecast by Region (2027-2032) & (K Pcs)

Table 16. World Thin Film Nanocomposite (TFN) Membrane Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Thin Film Nanocomposite (TFN) Membrane Producers in 2025

Table 18. World Thin Film Nanocomposite (TFN) Membrane Production by Manufacturer (2021-2026) & (K Pcs)

Table 19. Production Market Share of Key Thin Film Nanocomposite (TFN) Membrane Producers in 2025

Table 20. World Thin Film Nanocomposite (TFN) Membrane Average Price by Manufacturer (2021-2026) & (US\$/Pc)

Table 21. Global Thin Film Nanocomposite (TFN) Membrane Company Evaluation Quadrant

Table 22. World Thin Film Nanocomposite (TFN) Membrane Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Thin Film Nanocomposite (TFN) Membrane Production Site of Key Manufacturer

Table 24. Thin Film Nanocomposite (TFN) Membrane Market: Company Product Type Footprint

Table 25. Thin Film Nanocomposite (TFN) Membrane Market: Company Product Application Footprint

Table 26. Thin Film Nanocomposite (TFN) Membrane Competitive Factors

Table 27. Thin Film Nanocomposite (TFN) Membrane New Entrant and Capacity Expansion Plans

Table 28. Thin Film Nanocomposite (TFN) Membrane Mergers & Acquisitions Activity

Table 29. United States VS China Thin Film Nanocomposite (TFN) Membrane Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Thin Film Nanocomposite (TFN) Membrane Production Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 31. United States VS China Thin Film Nanocomposite (TFN) Membrane Consumption Comparison, (2021 & 2025 & 2032) & (K Pcs)

Table 32. United States Based Thin Film Nanocomposite (TFN) Membrane Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production (2021-2026) & (K Pcs)

Table 36. United States Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Market Share (2021-2026)

Table 37. China Based Thin Film Nanocomposite (TFN) Membrane Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Thin Film Nanocomposite (TFN) Membrane

## Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production, (2021-2026) & (K Pcs)

Table 41. China Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Market Share (2021-2026)

Table 42. Rest of World Based Thin Film Nanocomposite (TFN) Membrane Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production, (2021-2026) & (K Pcs)

Table 46. Rest of World Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Market Share (2021-2026)

Table 47. World Thin Film Nanocomposite (TFN) Membrane Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Thin Film Nanocomposite (TFN) Membrane Production by Type (2021-2026) & (K Pcs)

Table 49. World Thin Film Nanocomposite (TFN) Membrane Production by Type (2027-2032) & (K Pcs)

Table 50. World Thin Film Nanocomposite (TFN) Membrane Production Value by Type (2021-2026) & (USD Million)

Table 51. World Thin Film Nanocomposite (TFN) Membrane Production Value by Type (2027-2032) & (USD Million)

Table 52. World Thin Film Nanocomposite (TFN) Membrane Average Price by Type (2021-2026) & (US\$/Pc)

Table 53. World Thin Film Nanocomposite (TFN) Membrane Average Price by Type (2027-2032) & (US\$/Pc)

Table 54. World Thin Film Nanocomposite (TFN) Membrane Production Value by Water Flux, (USD Million), 2021 & 2025 & 2032

Table 55. World Thin Film Nanocomposite (TFN) Membrane Production by Water Flux (2021-2026) & (K Pcs)

Table 56. World Thin Film Nanocomposite (TFN) Membrane Production by Water Flux (2027-2032) & (K Pcs)

Table 57. World Thin Film Nanocomposite (TFN) Membrane Production Value by Water Flux (2021-2026) & (USD Million)

Table 58. World Thin Film Nanocomposite (TFN) Membrane Production Value by Water Flux (2027-2032) & (USD Million)

Table 59. World Thin Film Nanocomposite (TFN) Membrane Average Price by Water Flux (2021-2026) & (US\$/Pc)

Table 60. World Thin Film Nanocomposite (TFN) Membrane Average Price by Water Flux (2027-2032) & (US\$/Pc)

Table 61. World Thin Film Nanocomposite (TFN) Membrane Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Thin Film Nanocomposite (TFN) Membrane Production by Application (2021-2026) & (K Pcs)

Table 63. World Thin Film Nanocomposite (TFN) Membrane Production by Application (2027-2032) & (K Pcs)

Table 64. World Thin Film Nanocomposite (TFN) Membrane Production Value by Application (2021-2026) & (USD Million)

Table 65. World Thin Film Nanocomposite (TFN) Membrane Production Value by Application (2027-2032) & (USD Million)

Table 66. World Thin Film Nanocomposite (TFN) Membrane Average Price by Application (2021-2026) & (US\$/Pc)

Table 67. World Thin Film Nanocomposite (TFN) Membrane Average Price by Application (2027-2032) & (US\$/Pc)

Table 68. LG Chem Basic Information, Manufacturing Base and Competitors

Table 69. LG Chem Major Business

Table 70. LG Chem Thin Film Nanocomposite (TFN) Membrane Product and Services

Table 71. LG Chem Thin Film Nanocomposite (TFN) Membrane Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. LG Chem Recent Developments/Updates

Table 73. LG Chem Competitive Strengths & Weaknesses

Table 74. SUEZ Basic Information, Manufacturing Base and Competitors

Table 75. SUEZ Major Business

Table 76. SUEZ Thin Film Nanocomposite (TFN) Membrane Product and Services

Table 77. SUEZ Thin Film Nanocomposite (TFN) Membrane Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. SUEZ Recent Developments/Updates

Table 79. SUEZ Competitive Strengths & Weaknesses

Table 80. Proshare Innovation Basic Information, Manufacturing Base and Competitors

Table 81. Proshare Innovation Major Business

Table 82. Proshare Innovation Thin Film Nanocomposite (TFN) Membrane Product and Services

Table 83. Proshare Innovation Thin Film Nanocomposite (TFN) Membrane Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 84. Proshare Innovation Recent Developments/Updates

Table 85. Proshare Innovation Competitive Strengths & Weaknesses

Table 86. HJC Basic Information, Manufacturing Base and Competitors

Table 87. HJC Major Business

Table 88. HJC Thin Film Nanocomposite (TFN) Membrane Product and Services

Table 89. HJC Thin Film Nanocomposite (TFN) Membrane Production (K Pcs), Price (US\$/Pc), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. HJC Recent Developments/Updates

Table 91. HJC Competitive Strengths & Weaknesses

Table 92. Global Key Players of Thin Film Nanocomposite (TFN) Membrane Upstream (Raw Materials)

Table 93. Global Thin Film Nanocomposite (TFN) Membrane Typical Customers

Table 94. Thin Film Nanocomposite (TFN) Membrane Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Thin Film Nanocomposite (TFN) Membrane Picture

Figure 2. World Thin Film Nanocomposite (TFN) Membrane Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Thin Film Nanocomposite (TFN) Membrane Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Thin Film Nanocomposite (TFN) Membrane Production (2021-2032) & (K Pcs)

Figure 5. World Thin Film Nanocomposite (TFN) Membrane Average Price (2021-2032) & (US\$/Pc)

Figure 6. World Thin Film Nanocomposite (TFN) Membrane Production Value Market Share by Region (2021-2032)

Figure 7. World Thin Film Nanocomposite (TFN) Membrane Production Market Share by Region (2021-2032)

Figure 8. South Korea Thin Film Nanocomposite (TFN) Membrane Production (2021-2032) & (K Pcs)

Figure 9. Europe Thin Film Nanocomposite (TFN) Membrane Production (2021-2032) & (K Pcs)

Figure 10. China Thin Film Nanocomposite (TFN) Membrane Production (2021-2032) & (K Pcs)

Figure 11. North America Thin Film Nanocomposite (TFN) Membrane Production (2021-2032) & (K Pcs)

Figure 12. Thin Film Nanocomposite (TFN) Membrane Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032) & (K Pcs)

Figure 15. World Thin Film Nanocomposite (TFN) Membrane Consumption Market Share by Region (2021-2032)

Figure 16. United States Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032) & (K Pcs)

Figure 17. China Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032) & (K Pcs)

Figure 18. Europe Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032) & (K Pcs)

Figure 19. Japan Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032) & (K Pcs)

Figure 20. South Korea Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032) & (K Pcs)

Figure 21. ASEAN Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032) & (K Pcs)

Figure 22. India Thin Film Nanocomposite (TFN) Membrane Consumption (2021-2032) & (K Pcs)

Figure 23. Producer Shipments of Thin Film Nanocomposite (TFN) Membrane by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Thin Film Nanocomposite (TFN) Membrane Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Thin Film Nanocomposite (TFN) Membrane Markets in 2025

Figure 26. United States VS China: Thin Film Nanocomposite (TFN) Membrane Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Thin Film Nanocomposite (TFN) Membrane Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Thin Film Nanocomposite (TFN) Membrane Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Market Share 2025

Figure 30. China Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Thin Film Nanocomposite (TFN) Membrane Production Market Share 2025

Figure 32. World Thin Film Nanocomposite (TFN) Membrane Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Thin Film Nanocomposite (TFN) Membrane Production Value Market Share by Type in 2025

Figure 34. TFN RO Membrane

Figure 35. TFN Nanofiltration Membrane

Figure 36. TFN Ultrafiltration Membrane

Figure 37. TFN Specialty Membrane

Figure 38. World Thin Film Nanocomposite (TFN) Membrane Production Market Share by Type (2021-2032)

Figure 39. World Thin Film Nanocomposite (TFN) Membrane Production Value Market Share by Type (2021-2032)

Figure 40. World Thin Film Nanocomposite (TFN) Membrane Average Price by Type (2021-2032) & (US\$/Pc)

Figure 41. World Thin Film Nanocomposite (TFN) Membrane Production Value by

Water Flux, (USD Million), 2021 & 2025 & 2032

Figure 42. World Thin Film Nanocomposite (TFN) Membrane Production Value Market Share by Water Flux in 2025

Figure 43. Water Flux 10000GPD

Figure 46. World Thin Film Nanocomposite (TFN) Membrane Production Market Share by Water Flux (2021-2032)

Figure 47. World Thin Film Nanocomposite (TFN) Membrane Production Value Market Share by Water Flux (2021-2032)

Figure 48. World Thin Film Nanocomposite (TFN) Membrane Average Price by Water Flux (2021-2032) & (US\$/Pc)

Figure 49. World Thin Film Nanocomposite (TFN) Membrane Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 50. World Thin Film Nanocomposite (TFN) Membrane Production Value Market Share by Application in 2025

Figure 51. Seawater Desalination

Figure 52. Industrial Water Treatment

Figure 53. Municipal Water Treatment

Figure 54. Others

Figure 55. World Thin Film Nanocomposite (TFN) Membrane Production Market Share by Application (2021-2032)

Figure 56. World Thin Film Nanocomposite (TFN) Membrane Production Value Market Share by Application (2021-2032)

Figure 57. World Thin Film Nanocomposite (TFN) Membrane Average Price by Application (2021-2032) & (US\$/Pc)

Figure 58. Thin Film Nanocomposite (TFN) Membrane Industry Chain

Figure 59. Thin Film Nanocomposite (TFN) Membrane Procurement Model

Figure 60. Thin Film Nanocomposite (TFN) Membrane Sales Model

Figure 61. Thin Film Nanocomposite (TFN) Membrane Sales Channels, Direct Sales, and Distribution

Figure 62. Methodology

Figure 63. Research Process and Data Source

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