

Global Thin Film Nanocomposite (TFN) Membrane Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Thin Film Nanocomposite (TFN) Membrane market size was valued at US\$ 173 million in 2025 and is forecast to a readjusted size of US\$ 244 million by 2032 with a CAGR of 5.2% during review period.

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 is a detailed and comprehensive analysis for global Thin Film Nanocomposite (TFN) Membrane market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Thin Film Nanocomposite (TFN) Membrane market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Thin Film Nanocomposite (TFN) Membrane market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Thin Film Nanocomposite (TFN) Membrane market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pc), 2021-2032

Global Thin Film Nanocomposite (TFN) Membrane market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pc), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Thin Film Nanocomposite (TFN) Membrane
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Thin Film Nanocomposite (TFN) Membrane market based on the following parameters - company overview, sales quantity, revenue,

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.

Market Segmentation

Thin Film Nanocomposite (TFN) Membrane market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

TFN RO Membrane

TFN Nanofiltration Membrane

TFN Ultrafiltration Membrane

TFN Specialty Membrane

Market segment by Water Flux

Water Flux 10000GPD

Market segment by Application

Seawater Desalination

Industrial Water Treatment

Municipal Water Treatment

Others

Major players covered

LG Chem

SUEZ

Proshare Innovation

HJC

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thin Film Nanocomposite (TFN) Membrane product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thin Film Nanocomposite (TFN) Membrane, with price, sales quantity, revenue, and global market share of Thin Film Nanocomposite (TFN) Membrane from 2021 to 2026.

Chapter 3, the Thin Film Nanocomposite (TFN) Membrane competitive situation, sales quantity, revenue, and global market share of top manufacturers are

analyzed emphatically by landscape contrast.

Chapter 4, the Thin Film Nanocomposite (TFN) Membrane breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Thin Film Nanocomposite (TFN) Membrane market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Thin Film Nanocomposite (TFN) Membrane.

Chapter 14 and 15, to describe Thin Film Nanocomposite (TFN) Membrane sales channel, distributors, customers, research findings and conclusion.

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