

Global Nitrocellulose (NC) Membrane Market Growth 2026-2032

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Abstracts

The global Nitrocellulose (NC) Membrane market size is predicted to grow from US\$ 101 million in 2025 to US\$ 171 million in 2032; it is expected to grow at a CAGR of 8.6% from 2026 to 2032.

In this report, Nitrocellulose (NC) membrane primarily refers to analytical/reaction membranes, typically nitrocellulose (NC) membranes laminated onto a backing. These porous, capillary-driven substrate materials are used in lateral flow test strips, enabling liquid transport and immunoreaction on the strip. NC exhibits strong capillary action and high protein binding capacity, allowing for the capture and immobilization of biological reagents on both the test and control lines. As the liquid sample migrates laterally via capillary action, labeled detection conjugates (gold, latex, fluorescent particles, etc.) form complexes with the target analyte; these complexes are captured on the test line, generating a visible/quantifiable signal, while the control line confirms proper flow and reagent function.

In 2025, the global Nitrocellulose (NC) membrane industry's gross profit margin was approximately 44.36%-59.54%. Depending on the product's form, some companies use 'rolls' (100 meters/roll) as the unit of measurement; others use 'sheets' or 'square meters' (1 square meter/sheet). Prices vary depending on product specifications. Retail prices range from approximately \$100 to \$285 per roll, with leading international companies generally charging higher prices than Chinese manufacturers. Production capacity varies among companies; some small businesses have only one production line, producing 3,000 rolls per month, while others produce approximately 300,000 square meters annually. This report calculates usage based on 'test counts,' projecting global Nitrocellulose (NC) Membrane production to reach 9,556 million tests by 2025. Upstream: Raw materials: cellulose (nitrocellulose, cellulose acetate, wetting agent

liquid), solvents (methyl acetate, ethanol, dibutanol), PET film, glassine paper; Equipment: coating and cutting equipment, quality testing equipment, etc.; Downstream: In vitro diagnostics (IVD) and point-of-care testing (POCT) companies.

Market Trends

1. In 2023 and 2024, as the impact of the pandemic subsided, both product sales volume and prices declined. Consequently, total market revenue in 2024 was lower than in 2021.
2. Products can be categorized into two types: membranes with a thickness of no more than 250 micrometers and membranes with a thickness greater than 250 micrometers. Membranes with a thickness of no more than 250 micrometers will have applications in both 2024 and 2025. In 2025, 250 μm NC membranes will account for 89.3% of the global sales market share.
3. Applications are wide-ranging; this report categorizes them into medical diagnostics and point-of-care testing (POC), drug abuse detection, food safety and the environment, and other applications. The medical diagnostics and point-of-care testing (POC) sector is the most widely used application area, projected to account for approximately 79.82% of the global market size by 2025.
4. The United States, the European Union, China, and India are currently the main suppliers.
5. The Asia-Pacific region has been the largest market region globally for the past few years and is expected to continue growing in the coming years. It is projected that by 2024, the Asia-Pacific region will account for approximately 41.54% of the global market share, while Europe and North America will account for approximately 27.63% and 23.83%, respectively.
6. Merck, Sartorius, Danaher (Cytiva), AMD (MDI), and Suzhou Tianren are the major manufacturers in the global NC membrane market. The top five manufacturers are projected to account for approximately 80.15% of the global market share by 2025.

Market Overview

Multi-Scenario, Long-Cycle Consumption: Following the peak of the COVID-19 pandemic, lateral flow immunoassay (LFA) has maintained stable demand in areas

such as infectious diseases, women's health, drug abuse, food safety, and veterinary testing. Looking ahead, demand will be driven by diversified testing product portfolios rather than single blockbuster products; therefore, the continuity of NC membrane supply and batch-to-batch consistency will receive greater attention.

Home Testing and Retail Channel Expansion, Intensified Price Competition: Home testing remains the primary driver of demand for lateral flow immunoassay (LFA) (especially in women's health and respiratory infections). In the future, more testing will shift to home testing, which will drive the development of NC membranes towards high-throughput roll-to-roll supply, automation-friendly specifications, and stricter control over capillary rate variations and background values. In terms of cost, human chorionic gonadotropin (HCG) testing is the largest application area in the market post-pandemic. As this area is quite mature, companies are competing by reducing prices and costs, with most using 20mm or 18mm pure nitrocellulose (NC) products.

High sensitivity and lower detection limits: Recent LFA development focuses on improving sensitivity and specificity (including signal enhancement, sample enrichment, advanced labeling, and improved analytical methods). A corresponding trend at the membrane end is that developers are increasingly emphasizing balancing speed and performance through capillary action time (slower capillary action times generally improve sensitivity), pore structure, and surfactant treatments, making membrane screening a critical step in assay optimization.

Multiple detection and more detection lines: Lateral flow immunochromatography (LFA) (detection of multiple targets on a single strip/cassette) represents a significant advancement in rapid diagnostics. This raises the bar for membranes, requiring uniform surface chemistry/porosity, clean and consistent multi-strip performance, lower background, and stable lateral flow characteristics—often leading to a more segmented membrane portfolio (offering multiple SKUs based on capillary action rate/pore structure/surfactant system).

High-throughput, automated, and standardized membranes: Demand for lateral flow immunochromatography (LFA) membranes is expected to continue to grow, particularly for high-throughput, automated, and standardized membranes, driven by multiplexing, digital readings, point-of-care testing (POCT), and their wider applications in public health, food safety, and environmental monitoring. Suppliers capable of scaling up production capacity, ensuring consistent quality, and building global supply chain resilience will solidify their competitive advantage in the evolving diagnostics field.

LP Information, Inc. (LPI) ' newest research report, the “Nitrocellulose (NC) Membrane Industry Forecast” looks at past sales and reviews total world Nitrocellulose (NC) Membrane sales in 2025, providing a comprehensive analysis by region and market sector of projected Nitrocellulose (NC) Membrane sales for 2026 through 2032. With Nitrocellulose (NC) Membrane sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nitrocellulose (NC) Membrane industry.

This Insight Report provides a comprehensive analysis of the global Nitrocellulose (NC) Membrane landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nitrocellulose (NC) Membrane portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nitrocellulose (NC) Membrane market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nitrocellulose (NC) Membrane and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Nitrocellulose (NC) Membrane.

This report presents a comprehensive overview, market shares, and growth opportunities of Nitrocellulose (NC) Membrane market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Thickness max. 250 μm

Thickness above 250 μm

Segmentation by Material:

Polyester?backed NC

Unbacked Nitrocellulose (NC)

Segmentation by Wicking Rate (s/4 cm):

Standard-Flow (Medium): 100–140s/4cm

High-Flow (Fast): 140s/4cm

Segmentation by Application:

Medical Diagnostics and Point-of-Care (POC)

Drug of Abuse Testing

Food Safety and Environmental

Other Applications

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Merck

Sartorius

Danaher (Cytiva)

Advantec

Advanced Microdevices (MDI)

Equinox Biotech

Tianren

Zhejiang Tailin Bioengineering

BSK Basic

Beijia New Material

Kingfa

Cobetter

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nitrocellulose (NC) Membrane market?

What factors are driving Nitrocellulose (NC) Membrane market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nitrocellulose (NC) Membrane market opportunities vary by end market size?

How does Nitrocellulose (NC) Membrane break out by Type, by Application?

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