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Nanofiltration Membrane Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Polymeric, Inorganic, Hybrid), By Membrane Type (Tubular Membrane, Flat Sheet Membrane, Spiral-Wound Membrane, Hollow-Fiber Membrane), By Application (Water & Wastewater Treatment, Food & Beverage, Pharmaceutical & Biomedical, Chemicals & Petrochemicals, Others), By Region and competition, 2020-2030F

https://marketpublishers.com/r/NCB6D560FE67EN.html
Date: February 2025
Pages: 182
Price: US$ 4,500.00 (Single User License)
ID: NCB6D560FE67EN

Abstracts

Global Nanofiltration Membrane Market was valued at USD 1.35 Billion in 2024 and is anticipated to project steady growth in the forecast period with a CAGR of 4.36% through 2030. The global nanofiltration membrane market is experiencing significant growth within the broader water and wastewater treatment sector. Nanofiltration membranes, positioned between ultrafiltration and reverse osmosis in terms of pore size, are increasingly utilized for contaminant removal, water softening, and solute separation. Advancements in membrane technology, including the development of ceramic and hybrid materials, are enhancing the efficiency, durability, and resistance to fouling, driving the market's expansion.

This market is poised for substantial growth, fueled by a confluence of environmental pressures, regulatory frameworks, technological advancements, and evolving market demands. As global challenges such as water scarcity, environmental sustainability, and stricter water quality standards persist, nanofiltration membranes offer a highly effective solution for tackling these issues. Companies that prioritize innovation, diversify their product offerings, and align their operations with sustainable practices will

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be strategically positioned to leverage the substantial opportunities emerging in this market.

Key Market Drivers

Growing Demand for Clean Water

The growing demand for clean water is one of the most significant drivers of the global Nanofiltration Membrane Market. Agriculture globally represents approximately 70% of freshwater withdrawals, with industry accounting for just under 20% and domestic (municipal) uses making up around 12%. Groundwater contributes to 25% of water used for irrigation and supplies half of the freshwater used for domestic purposes. Since the 1980s, global freshwater demand has been rising at a rate of nearly 1% annually. As global water resources face increasing pressures from population growth, urbanization, industrial activities, and climate change, the demand for reliable, cost-effective, and sustainable water purification technologies has never been greater. Nanofiltration membranes, which provide high levels of filtration while maintaining efficiency and low energy consumption, are positioned as a key solution to meet this escalating demand for clean water. Water scarcity is a global challenge, exacerbated by the combined effects of climate change, over-extraction, and pollution. Currently, 2.4 billion people reside in countries facing water stress, characterized by nations that extract 25% or more of their renewable freshwater resources to meet demand. Regions experiencing the most severe impacts include Southern and Central Asia, as well as North Africa, where water scarcity is considered a critical issue. Moreover, the contamination of natural water sources—due to industrial discharge, agricultural runoff, and urban waste—is further restricting access to clean water. In response to this, the need for water purification technologies is intensifying. Nanofiltration membranes are highly effective in addressing water quality issues by removing contaminants, including bacteria, viruses, and organic pollutants, while allowing essential minerals to pass through, thereby ensuring safe and potable water.

Over 3 billion people worldwide face health risks due to the lack of data on the water quality of their rivers, lakes, and groundwater. A study covering more than 75,000 water bodies across 89 countries revealed that over 40% of these sources were heavily polluted. This significant data gap underscores the need for improved monitoring and management of water quality to protect public health. As governments and industries prioritize solutions to combat water scarcity and pollution, the adoption of advanced filtration technologies like nanofiltration is expanding rapidly. This is particularly evident in water-stressed regions such as the Middle East, parts of Asia-Pacific, and North

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Africa, where freshwater availability is limited and water purification systems are crucial for both drinking water and industrial processes. As the demand for clean water continues to rise, there is a growing need to modernize and expand water treatment infrastructure across the globe. Traditional water treatment methods, such as coagulation-flocculation and reverse osmosis, are becoming increasingly insufficient and costly due to the rising complexity of water sources and environmental concerns. In this context, nanofiltration membranes offer a compelling alternative. They provide superior filtration efficiency, requiring less energy compared to reverse osmosis and producing high-quality treated water, especially from brackish or seawater sources. The expansion of water treatment facilities, especially in emerging economies and urban centers, is accelerating, creating a significant demand for nanofiltration technology. These membranes can be integrated into municipal water treatment plants, desalination facilities, and decentralized water treatment systems to meet the increasing water demands of both urban populations and industrial applications.

The growing global emphasis on sustainability is driving the shift from conventional water purification methods to more eco-friendly and energy-efficient alternatives. Nanofiltration membranes are gaining popularity because of their sustainable features: they operate at lower pressures compared to other filtration technologies, which reduces energy consumption and operational costs. Furthermore, nanofiltration is highly effective in reducing the chemical usage in water treatment, which is crucial in terms of minimizing environmental pollution and supporting a circular economy. As environmental regulations become stricter and the global population becomes more eco-conscious, the demand for sustainable and green water solutions will continue to grow. Nanofiltration membranes align well with these demands, making them a key technology for industries and municipalities looking to meet both water quality standards and sustainability goals. Another important factor driving the demand for clean water—and by extension, the growth of the nanofiltration membrane market—is the ongoing technological advancements in membrane materials, design, and performance. Nanofiltration membranes have evolved significantly in recent years, with improvements in selective permeability, durability, and fouling resistance. These innovations are enhancing the membranes' ability to handle a wider range of contaminants, from heavy metals and pesticides to pharmaceuticals and endocrine disruptors, which are increasingly present in water supplies. As water quality standards tighten, particularly in developed countries and regions with stringent environmental regulations, nanofiltration is becoming an increasingly viable solution. The ability to remove both organic and inorganic contaminants while preserving essential minerals, such as calcium and magnesium, makes nanofiltration membranes a versatile option for ensuring clean and safe water. The continuous improvement in membrane performance is likely to stimulate

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broader adoption across both developed and developing regions.

Health and Hygiene Concerns

Health and hygiene concerns are pivotal factors driving the growth of the global nanofiltration membrane market. From 2016 to 2020, there was notable progress in global access to essential health and hygiene services. The proportion of the global population with access to safely managed drinking water at home rose from 70% to 74%. Likewise, the availability of safely managed sanitation services grew from 47% to 54%, while access to handwashing facilities with soap and water increased from 67% to 71%. These improvements reflect a broader commitment to enhancing public health infrastructure and addressing hygiene concerns on a global scale. As public awareness about the importance of clean and safe water continues to rise, combined with increasing health risks associated with poor water quality and hygiene practices, there is a growing emphasis on effective water filtration technologies. Nanofiltration membranes, known for their superior filtration capabilities and cost-effectiveness, are emerging as an essential solution to address these concerns in both domestic and industrial settings. Waterborne diseases are a significant global health threat, particularly in regions with poor sanitation and water quality. Contaminated water is a primary carrier of harmful pathogens, including bacteria, viruses, and parasites, which can lead to diseases such as cholera, dysentery, and typhoid. As awareness of these health risks increases, there is a growing demand for advanced filtration technologies that can provide safe drinking water. Nanofiltration membranes are highly effective in removing harmful microorganisms, such as bacteria and viruses, from water supplies while allowing essential minerals to pass through. This selective filtration capability makes nanofiltration a critical technology in combating waterborne diseases and improving public health outcomes. Governments, non-governmental organizations (NGOs), and public health authorities are increasingly prioritizing clean water access as a fundamental component of disease prevention and overall health improvement. As a result, the demand for high-performance filtration systems, including those utilizing nanofiltration membranes, is expanding to ensure that water is free from harmful pathogens, chemicals, and pollutants.

The COVID-19 pandemic has heightened global awareness of personal hygiene and the critical importance of clean water in maintaining health. Hygiene practices, such as regular hand washing and sanitization, have become essential to preventing the spread of infectious diseases. As a result, people are increasingly concerned about the quality of water they use for personal hygiene—whether for drinking, cooking, bathing, or cleaning. Poor-quality water, contaminated with harmful chemicals or microorganisms,

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poses significant health risks and can lead to a range of health issues, including skin infections, gastrointestinal problems, and respiratory illnesses. Nanofiltration membranes address these concerns by providing a reliable and efficient means of ensuring water safety across various applications. The growing focus on personal hygiene has led to increased demand for home water filtration systems, as consumers seek effective solutions for ensuring that their water is clean, safe, and free from contaminants. The rise in demand for point-of-use (POU) water filtration systems, particularly in household and small-scale applications, is thus driving the growth of the nanofiltration membrane market.

In addition to biological contaminants, the presence of harmful chemicals and heavy metals in water is a growing concern for public health. Pollutants such as pesticides, industrial chemicals, pharmaceuticals, and endocrine-disrupting compounds can contaminate water sources, leading to serious health risks, including cancer, hormonal imbalances, and neurological disorders. As global awareness of these risks increases, there is a growing demand for advanced water treatment technologies that can remove these harmful substances from drinking water. Nanofiltration membranes are effective in removing a wide range of chemical contaminants, including dissolved salts, heavy metals, pesticides, and organic pollutants, from water supplies. Their selective permeability allows them to target specific contaminants while preserving the essential minerals required for human health. The ability of nanofiltration membranes to address both biological and chemical contaminants positions them as a preferred solution for ensuring the safety and quality of drinking water, further driving the growth of the market. As health and hygiene concerns rise, governments and regulatory bodies worldwide are introducing stricter water quality standards and regulations to ensure the safety of public water supplies. In many countries, regulatory agencies are enforcing more stringent limits on the permissible levels of contaminants in drinking water, including bacteria, heavy metals, and pesticides. These regulations are compelling municipalities, industries, and water treatment plants to adopt more advanced filtration technologies to meet compliance standards. Nanofiltration membranes offer an effective solution for meeting these regulatory requirements. By providing high-quality filtration that removes a wide range of contaminants, nanofiltration systems are increasingly being adopted by water treatment facilities to ensure that they meet evolving water quality standards. The growing regulatory pressure to improve water quality is, therefore, driving the adoption of nanofiltration technology across the globe.

Increasing Investment in Water Infrastructure

Increasing investment in water infrastructure is a critical driver of growth in the global

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nanofiltration membrane market. India is set to drive significant advancements in water infrastructure with an investment of over $250 billion in the sector. These funds, allocated across ambitious projects and initiatives, aim to achieve universal access to clean drinking water and sanitation, positioning the country to meet Sustainable Development Goal (SDG) 6.1 well before the 2030 target. Union Minister emphasized India's commitment to sustainable development, signaling the nation’s dedication to improving water security and infrastructure at scale. As global water scarcity, pollution, and the need for sustainable water management intensify, governments, industries, and organizations are committing substantial financial resources to improve and modernize water systems. This influx of investment is directly fueling the demand for advanced filtration technologies like nanofiltration (NF) membranes, which offer an effective, cost-efficient solution to meet growing water quality standards.

Governments around the world are increasingly prioritizing water security as a fundamental part of their infrastructure development. The investment in upgrading water treatment plants, distribution systems, and wastewater management facilities is essential to ensuring access to clean and safe water, especially in regions facing severe water stress or aging infrastructure. Nanofiltration membranes, with their superior filtration capabilities and efficiency, are well-positioned to play a pivotal role in these infrastructure projects. Many governments are investing in large-scale water treatment facilities, which require high-quality filtration systems to meet stringent water quality standards. Nanofiltration membranes offer a proven solution for improving water purity by efficiently removing contaminants, such as organic molecules, salts, and heavy metals, while retaining essential minerals. As part of these modernization initiatives, water utilities are increasingly adopting NF membrane-based systems to upgrade and expand treatment capacities. Water pollution has become one of the most pressing environmental challenges globally, with industrial discharge, agricultural runoff, and untreated wastewater contaminating rivers, lakes, and aquifers. The investment in water infrastructure is aimed at not only expanding access to clean water but also addressing the increasing levels of water contamination. As governments and private organizations direct funds toward improving water infrastructure, there is a concurrent rise in demand for advanced filtration technologies like nanofiltration membranes that can address both biological and chemical contaminants. Nanofiltration membranes are highly effective in removing a wide range of pollutants, such as pesticides, heavy metals, pharmaceuticals, and microorganisms, that are commonly found in polluted water sources. As part of the drive to improve water quality, municipalities are investing in advanced water treatment technologies that can handle the complex and diverse range of contaminants present in modern water supplies. This trend is particularly strong in regions facing water scarcity or degradation of water quality, leading to a growing

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demand for NF membranes.

In developed economies, much of the existing water infrastructure is aging and in need of modernization. This is particularly true in regions where legacy water treatment systems were designed for lower standards of water quality and are now struggling to meet the demands of growing populations and stricter regulatory frameworks. Investment in upgrading these systems is crucial to ensuring that water treatment facilities are capable of producing safe, high-quality water for consumption. Nanofiltration membranes, known for their efficiency, energy savings, and ability to treat a broad range of water sources, are increasingly being incorporated into these modernization efforts. As municipalities invest in the replacement and upgrade of aging infrastructure, NF membranes are being adopted to improve water treatment capabilities and reduce operational costs. The rising demand for NF membranes is directly correlated with this growing investment in upgrading water infrastructure to meet higher quality and sustainability standards. The growing recognition of the need for wastewater treatment and reuse is driving significant investment in water infrastructure. In light of growing water scarcity and the need for sustainable resource management, many regions are focusing on advanced treatment technologies to recycle wastewater for non-potable and even potable uses. Nanofiltration membranes are particularly suited for these applications, as they can effectively treat wastewater by removing harmful chemicals, pathogens, and other contaminants, while leaving essential minerals intact. Investing in water infrastructure that incorporates wastewater treatment and reuse is becoming a priority in both developed and emerging economies. As part of this transition toward a circular water economy, the global nanofiltration membrane market stands to benefit significantly. NF membranes are seen as an integral part of advanced water recycling systems, helping to meet the increasing demand for treated water and minimizing reliance on freshwater sources.

Key Market Challenges

Membrane Fouling and Scaling

Membrane fouling and scaling issues pose significant obstacles to the global Nanofiltration Membrane market. Nanofiltration membranes play a pivotal role in water treatment, desalination, and various industrial processes, offering efficient separation of solutes while allowing the passage of water and selective ions. However, over time, these membranes are susceptible to fouling, which occurs when particles, organic matter, or precipitates accumulate on their surface, reducing permeability and efficiency.

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Scaling is another challenge, wherein minerals and salts in the feedwater can precipitate on the membrane, leading to irreversible damage and performance deterioration. These issues necessitate regular cleaning, maintenance, and, in some cases, replacement of membranes, driving up operational costs and causing downtime.

To overcome these challenges, the Nanofiltration Membrane market must focus on membrane material advancements, innovative antifouling and anti-scaling technologies, and improved system designs. Collaborations between membrane manufacturers, water treatment companies, and research institutions can lead to the development of more robust and fouling-resistant nanofiltration membranes, ensuring the continued growth and effectiveness of this essential technology in addressing global water and filtration needs.

Competition from Alternative Technologies

Competition from alternative technologies is increasingly obstructing the global Nanofiltration Membrane market. While nanofiltration membranes are renowned for their efficiency in water purification, desalination, and separation processes, they face growing competition from alternative methods and technologies. Emerging solutions, such as forward osmosis and electrochemical processes, offer innovative ways to achieve similar outcomes, often with reduced energy consumption and lower operational costs.

Furthermore, advancements in materials science and nanotechnology have led to the development of novel filtration techniques that challenge the traditional dominance of nanofiltration membranes. These alternatives, sometimes based on carbon nanotubes or graphene-based filters, offer unique advantages in terms of selectivity and sustainability.

To remain competitive, the Nanofiltration Membrane market must invest in research and development to enhance membrane performance, energy efficiency, and cost-effectiveness. Additionally, market players should focus on promoting the unique advantages of nanofiltration, such as precise solute removal and versatility, to differentiate themselves in a crowded field of filtration technologies. By embracing innovation and continuously improving their products, nanofiltration membrane manufacturers can navigate the challenges posed by alternative technologies and maintain their relevance in the ever-evolving filtration landscape.

Key Market Trends

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Growing Demand for Smart Membrane Technologies

The global Nanofiltration Membrane market is experiencing a noteworthy trend driven by the growing demand for smart membrane technologies. Nanofiltration membranes, with their unique ability to selectively separate and purify molecules at the nanoscale level, are increasingly being recognized as a vital component in various industries, including water treatment, pharmaceuticals, and food and beverage.

Smart membrane technologies refer to the integration of nanofiltration membranes with advanced monitoring and control systems. These systems utilize sensors, automation, and data analytics to optimize membrane performance and enhance efficiency. They allow for real-time monitoring of membrane fouling, pressure differentials, and other critical parameters, enabling operators to make informed decisions and adjustments promptly. As a result, the lifespan of nanofiltration membranes is extended, and maintenance costs are reduced.

The rising demand for smart membrane technologies in the nanofiltration membrane market is primarily attributed to the need for greater operational efficiency, reduced energy consumption, and improved sustainability in water treatment processes and other applications. As industries seek more precise and eco-friendly filtration solutions, smart nanofiltration membranes are emerging as the go-to choose. This trend aligns with global efforts to address water scarcity and environmental concerns, making smart membrane technologies a key driver in shaping the future of the Nanofiltration Membrane market as it continues to evolve and innovate to meet the demands of various industries.

Increasing Awareness about Nanofiltration for Emerging Contaminants

An essential trend in the global Nanofiltration Membrane market is the increasing awareness about its efficacy in addressing emerging contaminants. As concerns about water quality and environmental pollution grow, so does the recognition of nanofiltration's unique ability to remove a wide range of emerging contaminants from water sources. These contaminants include pharmaceutical residues, endocrine-disrupting chemicals, and various organic and inorganic pollutants that pose potential risks to human health and ecosystems.

Nanofiltration membranes, with their precise pore size and molecular-level filtration capabilities, are gaining prominence as a reliable solution for selectively removing these

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emerging contaminants. The rise in awareness is driven by a growing body of research and successful real-world applications demonstrating nanofiltration's effectiveness in providing clean and safe drinking water, as well as treating industrial wastewater streams.

Governments, regulatory bodies, and industries are increasingly recognizing the importance of addressing emerging contaminants, and this awareness is driving investments in nanofiltration technology. The Nanofiltration Membrane market is witnessing a surge in demand as stakeholders seek sustainable and efficient ways to mitigate the impacts of these contaminants on public health and the environment.

In conclusion, the heightened awareness of nanofiltration as a potent tool for combating emerging contaminants is reshaping the global Nanofiltration Membrane market. This trend underscores the significance of advanced filtration technologies in safeguarding water resources and reflects a commitment to ensuring the purity and sustainability of our water supply in the face of evolving environmental challenges.

Segmental Insights

Type Insights

The hybrid segment is the fastest-growing player in the global Nanofiltration Membrane market, driven by the combination of benefits from various membrane materials. This enables hybrid membranes to achieve high selectivity and versatility in separating different solutes, making them ideal for a wide range of applications. These membranes can be customized by adjusting the combination and composition of materials, making them highly attractive for industries with diverse separation needs. The hybrid design often results in enhanced separation efficiency and performance, especially in industries where high purity and effective separation are crucial. Hybrid nanofiltration membranes also offer superior tolerance to a broader pH range and temperature fluctuations, expanding their use across different environments and processes. The material combination boosts mechanical strength and chemical resistance, leading to longer operational lifespans and reduced maintenance costs. While hybrid membranes may have higher upfront costs due to their complexity, they offer long-term cost-effectiveness through improved separation performance and durability, fueling the rapid growth of this segment..

Application Insights

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The Water & Wastewater Treatment segments are projected to experience rapid growth during the forecast period. Increasing concerns about water scarcity and water pollution have driven the demand for advanced water treatment technologies. Nanofiltration membranes are highly effective in removing contaminants and pollutants from water sources, making them an ideal choice for water and wastewater treatment.

Nanofiltration membranes are versatile and can selectively remove a wide range of contaminants, including heavy metals, organic compounds, and salts. This versatility makes them suitable for various water treatment applications.

Nanofiltration is widely used in the production of potable water. It can remove impurities, microorganisms, and dissolved solids, ensuring that the treated water meets stringent drinking water standards. As water resources become scarcer, the reuse of treated wastewater for non-potable purposes has gained importance. Nanofiltration membranes play a crucial role in treating wastewater to a quality level suitable for reuse in industrial processes, irrigation, and other non-drinking water applications. Water and wastewater treatment are essential in both municipal and industrial settings. Industries such as food and beverage, pharmaceuticals, and chemicals rely on nanofiltration to meet regulatory discharge standards and reduce environmental impact.

Regional Insights

The Asia-Pacific region hold a dominant position in the Nanofiltration Membrane market, in terms of market share and revenue. The Asia Pacific region is home to a significant and rapidly growing population. The increasing demand for clean water for both industrial and domestic purposes has driven the adoption of nanofiltration membranes for water treatment. Many countries in the Asia Pacific region face challenges related to water quality due to pollution, contamination, and inadequate infrastructure. Nanofiltration membranes are effective in addressing these water quality issues, making them essential for water treatment.

The Asia Pacific region is a hub for industrial growth and development, including the manufacturing, chemical, and pharmaceutical sectors. These industries require advanced water treatment solutions to meet environmental regulations and sustainability goals. Rapid urbanization in many Asia Pacific countries has led to increased demand for clean and safe drinking water, as well as wastewater treatment. Nanofiltration membranes play a critical role in addressing these urban water challenges.

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Governments and organizations in the Asia Pacific region have been investing in water infrastructure development and upgrading water treatment facilities, driving the adoption of advanced membrane technologies.

Stringent environmental regulations in some Asia Pacific countries require industries to treat wastewater before discharge. Nanofiltration membranes help industries comply with these regulations. Some parts of the Asia Pacific region experience water scarcity issues, especially in arid regions. Nanofiltration can be used for brackish water desalination and water reuse, contributing to sustainable water management.

Key Market Players

DuPont Water Solutions

PALL Corporation

Toray Industries Inc.

Veolia Environmental S.A.

Alfa Laval AB

NX Filtration

Vontron Technology Co, Ltd.

GEA Group AG

Report Scope:

In this report, the Global Nanofiltration Membrane Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Nanofiltration Membrane Market, By Type:

Polymeric

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Inorganic

Hybrid

Nanofiltration Membrane Market, By Membrane Type:

Tubular Membrane

Flat Sheet Membrane

Spiral-Wound Membrane

Hollow-Fiber Membrane

Nanofiltration Membrane Market, By Application:

Water & Wastewater Treatment

Food & Beverage

Pharmaceutical & Biomedical

Chemicals & Petrochemicals

Others

Nanofiltration Membrane Market, By Region:

Asia-Pacific

China

India

Japan

Australia

South Korea

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North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

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Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Nanofiltration Membrane Market.

Available Customizations:

Global Nanofiltration Membrane market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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