

India Naphthalene Market By Source (Coal Tar, Petroleum), By Grade (Technical Grade, Special Grade, Reagent Grade, Scintillation Grade), By End User (Textile, Agriculture, Building & Construction, Chemical, Plastic, Pharmaceutical, Others), By Region, Competition, Forecast and Opportunities, 2019-2029

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Abstracts

India Naphthalene Market has reached reach 21.21 million tonnes by 2023 and is anticipated to project robust growth in the forecast period with a CAGR of 4.70% through 2029. Naphthalene, a polycyclic aromatic hydrocarbon (PAH) with a distinct aromatic odor, has found extensive use in various industries, including textiles, construction, and chemicals. In the textile industry, naphthalene has been widely utilized in dyeing processes due to its excellent solubility and ability to enhance color fastness. Its unique chemical properties make it an indispensable component in the production of vibrant and long-lasting textile products.

Furthermore, India's export market for naphthalene witnessed remarkable growth between 2020 and 2021, with Saudi Arabia, Egypt, and Vietnam emerging as the fastest-growing markets. The increasing demand for naphthalene in these countries can be attributed to rapid industrialization, infrastructure development, and the expanding textile sectors. As the global demand for high-quality textiles continues to rise, India's naphthalene market is poised for significant growth in the coming years.

In conclusion, the naphthalene market in India is set to experience substantial growth, driven by the increasing demand from key industries and robust export opportunities. However, market players need to navigate challenges such as fluctuating crude oil

prices, which can impact the production costs of naphthalene and influence market dynamics. By developing innovative strategies and leveraging technological advancements, the industry can maintain the growth momentum and capitalize on the immense potential of the naphthalene market.

Key Market Drivers

Growing Demand of Naphthalene in Agriculture Industry

Naphthalene, a white crystalline solid derived from coal tar, is extensively used in agriculture due to its pesticidal properties. It is a key ingredient in mothballs and insecticides, providing robust protection for crops against a wide range of pests including aphids, beetles, and caterpillars. Moreover, naphthalene-based pesticides are also employed to safeguard stored grains from insects, ensuring food security and quality.

In India, with its agrarian economy, there has been a notable surge in demand for agricultural products driven by a growing population and increasing export opportunities. Consequently, the use of naphthalene-based products has witnessed a significant rise as farmers seek to boost crop productivity and protect their yields from pests. This rise in demand is further accentuated by the shift towards sustainable farming practices, with an increased usage of bio-based naphthalene products. These eco-friendly alternatives to traditional pesticides not only contribute to the protection of the environment but also drive the demand for naphthalene-based solutions.

The Indian government's initiatives aimed at boosting agricultural output have indirectly influenced the naphthalene market. Programs such as Pradhan Mantri Krishi Sinchayee Yojana (PMKSY), which focuses on improving irrigation facilities, and Paramparagat Krishi Vikas Yojana (PKVY), which promotes organic farming, have played a crucial role in increasing the demand for naphthalene-based products. This growing emphasis on sustainable and organic farming practices has further propelled the need for naphthalene as a reliable and effective solution.

In conclusion, the growing demand for naphthalene in the agriculture industry serves as a key driver for the Indian naphthalene market. As the agriculture sector continues to expand, fueled by the increasing demand for agricultural products and the support of government policies, the need for naphthalene is expected to grow at a steady pace. This significant trend is anticipated to provide a substantial boost to the Indian naphthalene market, contributing to its strong projected growth and overall success.

Growing Demand of Naphthalene in Pharmaceutical Industry

The Indian naphthalene market is witnessing a significant growth trajectory, thanks to its growing demand from various industrial sectors. One industry that has recently emerged as a key driver of this growth is the pharmaceutical sector.

Naphthalene, a polycyclic aromatic hydrocarbon with a distinctive aroma, plays an essential role in the pharmaceutical industry. It is primarily used in the synthesis of several active pharmaceutical ingredients (APIs), including antihistamines, antifungals, and antiseptics. The versatile properties of naphthalene and its derivatives also make them valuable in the production of pharmaceutically relevant compounds like antimalarials and antiretrovirals.

India's pharmaceutical sector has been experiencing substantial growth due to multiple factors. Increased healthcare expenditure, rising prevalence of chronic diseases, and a booming export market have contributed to this growth. As a result, the demand for naphthalene, a critical input in pharmaceutical manufacturing, has also escalated.

The Indian government's initiatives aimed at boosting the pharmaceutical sector have indirectly influenced the naphthalene market. Policies like the 'Pharma Vision 2020', which aims to make India a global leader in end-to-end drug manufacturing, have led to an increased demand for naphthalene. Furthermore, the government's focus on research and development in the pharmaceutical industry has paved the way for innovative uses of naphthalene in drug formulation and delivery systems.

In conclusion, the growing demand for naphthalene in the pharmaceutical industry is a significant driver of the Indian naphthalene market. As the pharmaceutical sector continues to expand, fueled by increasing healthcare needs and supportive government policies, the demand for naphthalene is expected to grow at a steady pace. This trend is likely to provide a substantial boost to the Indian naphthalene market, contributing to its strong projected growth and further reinforcing its position as a crucial player in the global pharmaceutical supply chain.

Key Market Challenges

Surge in Health & Safety Concerns

Naphthalene, a polycyclic aromatic hydrocarbon (PAH) consisting of two fused benzene

rings, has been extensively studied for its potential adverse health effects. Exposure to naphthalene has been associated with various health risks, including hyperplasia (abnormal increase in cell numbers) and metaplasia (abnormal change in cell type) in different organs and tissues. In addition, the European Chemicals Agency (ECHA) has identified haemolytic anaemia (a condition where red blood cells are prematurely destroyed) and carcinogenicity (the ability to cause cancer) as the primary health hazards attributed to naphthalene exposure.

These significant health concerns surrounding naphthalene have profound implications for the naphthalene market. As public awareness grows regarding the potential risks associated with naphthalene exposure, regulatory bodies may adopt stricter regulations to mitigate these risks and ensure consumer safety. Consequently, this increased scrutiny and potential regulatory actions could potentially dampen the growth of the naphthalene market.

An area of particular concern lies in the use of naphthalene in personal care products. As consumers become more health-conscious and scrutinize the ingredients in their products, industries employing naphthalene may face pressure to find alternative substances. This shift in consumer preferences could significantly impact the demand for naphthalene across various industries.

In conclusion, while the Indian naphthalene market holds promising growth prospects, the mounting health and safety concerns pose a significant challenge. Market players must navigate these complex issues diligently, striking a delicate balance between meeting the demand for naphthalene and ensuring consumer safety while adhering to evolving regulatory standards.

Key Market Trends

Rise in Technological Advancements

In recent years, the naphthalene production process has undergone significant technological advancements. These advancements encompass a wide range of improvements, including enhanced production efficiency and the development of environmentally friendly methods. For instance, the implementation of advanced catalysts and process technologies has resulted in improved naphthalene yield and reduced environmental impact, making the production process more sustainable.

Furthermore, the application of cutting-edge technologies has paved the way for the

production of naphthalene and its derivatives in an even more sustainable and efficient manner. These technological breakthroughs are not only driving the growth and development of the naphthalene market but also revolutionizing its potential applications.

The impact of technological advancements in the naphthalene market extends beyond production processes. With improved production methods, the market is witnessing higher quality naphthalene products that find extensive use in various industries such as agriculture, pharmaceuticals, and textiles. These advancements in technology have also led to the development of new naphthalene-based products, such as naphthalene sulfonate-based superplasticizers in the construction industry, creating new opportunities for the naphthalene market to expand its reach.

In India, the government's proactive initiatives to support technological advancements in the chemical industry have further bolstered the naphthalene market. Government policies aimed at encouraging research and development activities have played a crucial role in facilitating the arrival of innovative solutions in the naphthalene sector, ensuring its sustained growth.

Looking ahead, the trend of technological advancements in the naphthalene market is expected to continue. With an increasing focus on sustainability and efficiency, further innovations in production processes and product applications are anticipated to shape the future trajectory of the naphthalene market, unlocking new possibilities and avenues for growth.

In conclusion, the rise of technological advancements is a defining trend in the Indian naphthalene market. As these advancements continue to drive improvements in production processes and product applications, they are set to play a pivotal role in shaping the future growth and development of the market, presenting exciting opportunities for stakeholders in the industry.

Segmental Insights

Source Insights

Based on the category of source, the coal tar segment emerged as the dominant player in the Indian market for Naphthalene in 2023.

Coal tar, a valuable by-product obtained from the process of coal coking, is abundantly

available, making it a highly cost-effective and sustainable raw material for naphthalene production. Naphthalene, known as the most abundant single component found in coal tar, further enhances its appeal as an attractive source for extraction.

The most commonly employed method for naphthalene production involves the meticulous process of coal tar distillation, which has been continuously refined and optimized over the years. This ongoing enhancement has significantly contributed to the overall efficiency, reliability, and cost-effectiveness of utilizing coal tar as a reliable source for naphthalene production.

End User Insights

The building & construction segment is projected to experience rapid growth during the forecast period. India has experienced a significant surge in construction activities in recent years, driven by rapid urbanization and infrastructure development. As cities continue to expand and modernize, there is an ever-growing demand for robust and long-lasting structures in both the infrastructure and real estate sectors. This demand has led to the utilization of various construction materials and techniques that can ensure the durability and sustainability of these structures.

One key ingredient that has emerged as a crucial component in meeting this demand is naphthalene and its derivatives, with a particular focus on sulphonated naphthalene formaldehyde. These derivatives possess excellent water reduction abilities, making them highly desirable in the construction industry. By effectively reducing the water content in concrete mixtures, they contribute to improved workability and strength, ultimately enhancing the overall quality of the concrete structures.

Moreover, naphthalene derivatives, such as polycarboxylate ether (PCE) and other naphthalene-based admixtures, have gained significant traction in the market due to their ability to enhance the durability of structures. These additives work in synergy with concrete to improve its resistance against various environmental factors, such as harsh weather conditions, chemical exposure, and wear and tear over time. The integration of these additives into construction practices has resulted in structures that not only withstand the test of time but also reduce maintenance and repair costs in the long run. As a result, the demand for naphthalene derivatives continues to soar in the construction industry.

In summary, the construction boom in India has fueled the need for durable structures in both the infrastructure and real estate sectors. Naphthalene and its derivatives,

especially sulphonated naphthalene formaldehyde, have emerged as essential components in meeting this demand. With their water reduction abilities and ability to enhance the durability of structures, these derivatives have become indispensable in the construction industry, ensuring the longevity and quality of the built environment.

Regional Insights

West India emerged as the dominant player in the India Naphthalene Market in 2023, holding the largest market share in terms of value. West India boasts a strong industrial base, housing several major chemical and manufacturing industries. These industries encompass a wide range of sectors, including textiles, garments, and other related fields. With a focus on innovation and quality, West India has become a hub for naphthalene production and its derivatives, meeting the increasing demand in the market.

The strategic location of West India further contributes to its prominence in the naphthalene industry. Situated in close proximity to major ports, the region enjoys seamless import and export of raw materials and finished products, facilitating efficient supply chain management, and contributing to the growth of the naphthalene market.

Recognizing the significance of industrial development, the government of West India has implemented initiatives aimed at promoting and supporting the growth of various industries, including the naphthalene market. These initiatives include policies that foster research and development activities in the chemical industry, leading to advancements in naphthalene production techniques and the development of innovative applications.

Overall, West India's strong industrial base, strategic location, and government support have established the region as a dominant player in the naphthalene market, driving economic growth and fostering innovation in the chemical industry.

Key Market Players

AVH Pvt Ltd.

Kedia Carbon Pvt. Ltd.

Palriwal Industries Pvt Ltd.

Steel Authority of India Ltd.

Himadri Speciality Chemical Ltd.

Waltzer India Pvt. Ltd.

Report Scope:

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

India Naphthalene Market, By Source:

Coal Tar

Petroleum

India Naphthalene Market, By Grade:

Technical Grade

Special Grade

Reagent Grade

Scintillation Grade

India Naphthalene Market, By End User:

Textile

Agriculture

Building & Construction

Chemical

Plastic

Pharmaceutical

Others

India Naphthalene Market, By Region:

North India

East India

West India

South India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Naphthalene Market.

Available Customizations:

India Naphthalene Market report with the given market data, Tech Sci 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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