

## India Nitrile Butadiene Rubber Market By Product Type (Hoses, Belts, Cables, Molded Seals, O-rings, and Gloves), By Applications (Automotive, Oil & Gas, Mining, Construction, Medical and Others), By Region, Competition, Forecast and Opportunities, 2020-2030F

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### Report description:

India Nitrile Butadiene Rubber Market achieved a total market volume of 11.63 thousand Metric Tonnes in 2024 and is poised for growth in the forecast period to reach 14.29 thousand Metric Tonnes in 2030, with a projected Compound Annual Growth Rate (CAGR) of 3.83% through 2030.

Nitrile Butadiene Rubber (NBR), a synthetic rubber copolymer, has witnessed an expanding role in various industrial applications in India. Renowned for its resilience, oil resistance, and durability, NBR is a critical component in industries such as automotive, construction, and healthcare. The automotive sector is a major consumer of NBR in India. The rubber is used for manufacturing various components such as seals, gaskets, and hoses due to its exceptional oil resistance and durability. With India's automotive industry on the rise, the demand for NBR has surged. NBR is used in the construction industry for seals, gaskets, and other applications requiring resistance to environmental factors. As the country witness's extensive infrastructure development and urbanization, the demand for NBR products has risen. NBR's resistance to oil and fuel makes it an ideal choice for sealing components in the oil and gas industry. India's growing energy demands have driven investment in the oil and gas sector, further stimulating NBR consumption.

NBR is also used in the healthcare sector for the production of disposable gloves, syringe seals, and various medical devices. With the ongoing focus on healthcare infrastructure, there's a continuous need for NBR-based products. NBR's ability to withstand wear, tear, and extreme conditions makes it a favored material for various industrial machinery components. NBR is used in various consumer goods, such as footwear and industrial clothing, where durability and resistance to oils and chemicals are crucial.

The supply of NBR in India is met through a combination of domestic production and imports. Major Indian petrochemical and

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rubber companies like Indian Synthetic Rubber Limited (ISRL) and Apar Industries Limited have established NBR production units, supplementing the growing demand. India occasionally imports NBR to meet specific demands or bridge supply gaps. Import sources include countries like China, South Korea, and Japan. The production, distribution, and use of NBR in India are subject to regulatory standards set by government agencies such as the Bureau of Indian Standards (BIS) and the Ministry of Environment, Forest, and Climate Change. These regulations are designed to ensure safety, quality, and environmental standards are met. Environmental concerns are notable, as the production of NBR can have implications on air and water quality. Manufacturers are encouraged to adhere to stringent environmental standards. The competitive landscape of the Indian NBR market features a mix of domestic and international players. Indian manufacturers leverage their in-depth understanding of local market dynamics, regulatory compliance, and established relationships with domestic clients. These companies play a pivotal role in meeting the growing demand for NBR in the automotive, construction, and healthcare sectors. International companies from countries like China and South Korea are also active in the Indian market, either through direct exports or partnerships with local distributors. This competition encourages innovation, product quality enhancement, and competitive pricing, ultimately benefiting end-users. NBR production depends on the availability and price of butadiene, which is derived from crude oil. Fluctuations in raw material prices can significantly impact production costs. The production process of NBR can have environmental implications, particularly in terms of air and water pollution. Complying with stringent environmental regulations is vital to address these concerns. Ensuring consistent quality of NBR products is crucial, especially in industries like healthcare and automotive where safety and performance standards are high.

The wide range of applications for NBR ensures sustained demand across various industries, offering stability and growth prospects. There is scope for innovation in NBR production to develop new grades with enhanced properties or to create products tailored to specific industry needs. With India's growing NBR production capacity and product quality improvements, there is significant potential for exports to cater to the global demand for NBR-based products.

Thus, the Nitrile Butadiene Rubber (NBR) market in India plays a pivotal role in supporting the growth of various industries, including automotive, construction, healthcare, and oil and gas. While the market faces challenges related to raw material prices, environmental regulations, and quality control, it presents ample opportunities for diversification, research and development, and export growth. As India strengthens its position as a manufacturing and industrial hub, the role of NBR remains integral in supporting the nation's growth across diverse sectors.

### **Key Market Drivers**

Growing Demand from Automotive Industry Propels Indian Nitrile Butadiene Rubber Market Growth

The Indian Nitrile Butadiene Rubber (NBR) market is currently experiencing robust growth, largely attributed to the increasing demand from the automotive industry. NBR, a synthetic rubber known for its excellent resistance to oil, fuel, and chemicals, has gained significant importance in various automotive applications, making it a critical material for the sector. As India's automotive industry continues to expand and evolve, the demand for NBR is on the rise, providing essential solutions for the production of high-performance automotive components.

One of the primary applications of NBR in the automotive sector is in the manufacturing of oil seals and gaskets. NBR's remarkable resistance to oil and fuel, along with its excellent sealing properties, makes it an ideal material for creating durable and leak-proof seals in engines, transmissions, and other critical automotive systems. These seals are vital for preventing oil and fuel leaks, ensuring the efficient operation of vehicles and enhancing their longevity. Furthermore, NBR is used in the production of various rubber hoses, particularly those related to fuel and oil systems. The ability of NBR to withstand exposure to various chemicals, temperature fluctuations, and mechanical stress makes it an essential choice for manufacturing hoses that transport fuel, oil, and other automotive fluids. These hoses are critical components of a vehicle's fuel and lubrication systems, and their reliable performance is crucial for safe and efficient vehicle operation.

NBR is used in the production of vibration-isolating engine mounts, which help reduce noise and vibration in vehicles. This is particularly important in passenger cars and commercial vehicles, as it enhances driver and passenger comfort and minimizes stress on the vehicle's mechanical components. NBR's resilience and damping properties make it a preferred material for these applications.

As India's automotive industry grows and adapts to meet evolving consumer expectations, the demand for high-performance vehicles with advanced features and improved fuel efficiency has increased. This has led to greater requirements for high-quality

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automotive components, many of which incorporate NBR to enhance their performance and durability. The automotive aftermarket segment also contributes significantly to the demand for NBR. As vehicles age, there is an increasing need for replacement parts, including seals, gaskets, and hoses, which incorporate NBR due to its proven reliability in withstanding the challenging conditions encountered in automotive systems. This sustained demand from the aftermarket sector further fuels the growth of the NBR market in India.

The surge in the number of vehicle manufacturing plants and automotive component suppliers in India has driven investments in expanding NBR production capacities and ensuring the quality and consistency of the material. A reliable supply of high-quality NBR is essential for automotive manufacturers and suppliers, as they rely on this synthetic rubber to ensure the performance, safety, and longevity of their products. As environmental regulations become more stringent, the automotive industry is focusing on reducing emissions and improving fuel efficiency. NBR's role in creating durable and efficient components is aligned with these goals, making it a valuable choice for the automotive sector as it seeks to develop cleaner and more eco-friendly vehicles. Hence, the growing demand from the automotive industry is propelling the growth of the Nitrile Butadiene Rubber (NBR) market in India. As the automotive sector continues to expand, evolve, and prioritize higher performance and improved efficiency, NBR is playing a pivotal role in the production of essential components such as seals, gaskets, hoses, and engine mounts. Its excellent resistance to oil, fuel, and chemicals, along with its sealing and damping properties, makes it an indispensable material for the automotive industry. This growth not only advances the automotive sector but also strengthens India's position as a hub for the production of high-performance and eco-friendly automotive components.

Rising Demand from Oil and Gas Sector Propels India's Nitrile Butadiene Rubber Market Growth

The Indian Nitrile Butadiene Rubber (NBR) market is experiencing substantial growth, primarily due to the rising demand from the oil and gas sector. NBR, a synthetic rubber known for its exceptional resistance to oil, fuel, and chemicals, plays a vital role in various applications within the oil and gas industry, making it an indispensable material for this sector. As India's demand for energy resources continues to grow and the oil and gas sector expands, the need for NBR is on the rise, providing essential solutions for the production of critical components used in the exploration, extraction, and transportation of oil and gas.

One of the primary applications of NBR in the oil and gas sector is in the manufacturing of seals and gaskets. NBR's remarkable resistance to oil, fuel, and chemicals, along with its sealing properties, makes it an ideal material for creating durable and leak-proof seals in a wide range of equipment, such as valves, pumps, and pipelines. These seals are crucial for maintaining the integrity of the equipment, preventing leaks, and ensuring the safe and efficient operation of oil and gas facilities. Furthermore, NBR is used in the production of various rubber parts and components used in the oil and gas industry, including O-rings, grommets, and custom-molded parts. These rubber components are used in various applications, such as in downhole tools, drilling equipment, and subsea systems. The reliability and durability of NBR in harsh and corrosive environments are highly advantageous for the oil and gas sector.

In India, the oil and gas sector plays a crucial role in the nation's energy supply, and the country continues to invest in the exploration and extraction of domestic oil and gas resources. This growth has led to an increased requirement for high-quality components and equipment that can withstand the challenging conditions of the industry, which has driven the demand for NBR. As the oil and gas industry expands and adopts advanced technologies, the demand for NBR is further fueled by the need for seals, gaskets, and rubber components with improved performance and longevity. This includes applications in offshore drilling, pipeline transportation, and the maintenance and repair of existing infrastructure.

The surge in exploration activities and the establishment of new oil and gas facilities in India has prompted investments in expanding NBR production capacities and ensuring the quality and consistency of the material. A reliable supply of high-quality NBR is essential for manufacturers in the oil and gas sector, as they rely on this synthetic rubber to maintain the reliability and safety of their equipment and facilities.

As the industry continues to adapt to changing environmental regulations and strives for more sustainable practices, NBR's role in creating durable and efficient components aligns with these goals. It is essential for maintaining the safety and environmental responsibility of oil and gas operations. The rising demand from the oil and gas sector is propelling the growth of the Nitrile Butadiene Rubber (NBR) market in India. As the oil and gas industry expands and invests in the exploration, extraction, and transportation of energy resources, NBR is becoming a pivotal material in the production of seals, gaskets, and rubber components that can withstand the demanding conditions of the sector. NBR's resistance to oil, fuel, and chemicals, along with its

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sealing properties, makes it a valuable choice for the oil and gas industry. This growth not only advances the oil and gas sector but also strengthens India's position as a hub for the production of high-performance and environmentally responsible components used in the energy industry.

Rising Use in Industrial Application is Propelling the India Nitrile Butadiene Rubber Market Growth

The Indian Nitrile Butadiene Rubber (NBR) market is currently experiencing significant growth, largely driven by the rising use of NBR in various industrial applications. NBR, a versatile synthetic rubber known for its exceptional oil and chemical resistance, durability, and flexibility, has gained significant importance in industrial settings. As India's manufacturing sector continues to grow and diversify, the demand for NBR is on the rise, providing essential solutions for the production of industrial components that require robust performance and longevity.

One of the primary applications of NBR in industrial settings is in the production of gaskets and seals. The outstanding properties of NBR, including its resistance to oil, fuel, and chemicals, make it an ideal choice for creating durable and leak-proof gaskets and seals. These components are essential in various industrial machinery and equipment, where they help prevent leaks and maintain the integrity of critical systems, such as hydraulic and pneumatic systems. NBR is also widely used in the production of conveyor belts for industrial material handling and transportation. These belts require materials that can withstand heavy loads, abrasion, and exposure to oils and chemicals. NBR's durability and resilience make it a preferred material for these applications, ensuring the efficient and reliable operation of industrial conveyor systems.

Furthermore, NBR is employed in the production of various rubber hoses used for industrial purposes. These hoses are essential components for conveying a wide range of fluids and gases, including hydraulic fluids, industrial chemicals, and air. NBR's excellent resistance to oils, chemicals, and temperature variations, along with its flexibility, makes it a suitable choice for manufacturing hoses that can withstand the challenging conditions of industrial operations. The growth of India's manufacturing sector and the increasing focus on modernization and automation have driven the demand for high-quality industrial components. These components, which often incorporate NBR to enhance their performance and longevity, are used in diverse industrial applications, such as machinery, processing equipment, and industrial plants.

The surge in industrialization and the establishment of new manufacturing facilities in India have prompted investments in expanding NBR production capacities and ensuring the quality and consistency of the material. A reliable supply of high-quality NBR is crucial for manufacturers in the industrial sector, as they depend on this synthetic rubber to ensure the performance and safety of their equipment and systems. As industries across the globe continue to emphasize environmental responsibility, NBR's role in creating durable and efficient components aligns with sustainability goals. Modern production processes in various industrial sectors have evolved to become more eco-friendly, with a focus on reducing waste, energy consumption, and emissions. NBR contributes to these sustainability efforts by enabling the production of components that are reliable, durable, and environmentally responsible.

Thus, the rising use of Nitrile Butadiene Rubber (NBR) in industrial applications is propelling the growth of the NBR market in India. As the manufacturing sector in India expands and adopts advanced technologies, the demand for NBR has increased, particularly for the production of gaskets, seals, conveyor belts, and industrial hoses. NBR's exceptional resistance to oils, chemicals, and temperature variations, coupled with its durability and flexibility, makes it a valuable material for industrial components that need to withstand harsh conditions. This growth not only advances the industrial sector but also strengthens India's position as a hub for the production of high-performance, eco-friendly industrial components, aligning with the evolving demands of modern manufacturing and industrial processes.

Key Market Challenges

**Supply Chain Disruptions** 

Supply chain disruptions have become a significant impediment to the growth of the Nitrile Butadiene Rubber (NBR) market in India. NBR is a versatile synthetic rubber used in a wide range of applications, including automotive, industrial, and medical products. The production and distribution of NBR heavily rely on the efficient functioning of the supply chain to ensure the availability of raw materials, consistent manufacturing processes, and timely delivery to end-users. The frequent supply chain disruptions, which can be caused by various factors such as transportation issues, natural disasters, and global trade uncertainties, lead to delays, increased costs, and unpredictability in the availability of NBR. These disruptions not only affect production planning but also impact the pricing and availability of NBR, making it challenging for manufacturers to meet customer

demands and maintain a stable market presence.

To mitigate these challenges and foster growth in the India NBR market, stakeholders should prioritize enhancing supply chain resilience, diversifying sourcing options, and implementing robust risk management strategies. These measures are vital for maintaining market competitiveness and ensuring stable and reliable growth, even in the face of supply chain disruptions. Competition from International Manufacturers

Competition from international manufacturers is posing a formidable challenge to the growth of the Nitrile Butadiene Rubber (NBR) market in India. NBR, a versatile synthetic rubber with applications ranging from automotive components to medical gloves, faces intense competition from overseas producers. International manufacturers often benefit from economies of scale, advanced technology, and competitive pricing, making it difficult for Indian producers to maintain pricing strategies and market share. International manufacturers have a global reach and established customer bases, which further adds to the competition's intensity. They can leverage their resources to offer cost-competitive alternatives, putting pressure on domestic producers and affecting their profitability.

To counter this challenge and stimulate growth in the India NBR market, domestic manufacturers should prioritize innovation, product quality, and operational efficiency. In addition, fostering strategic collaborations and market segmentation can create opportunities for growth and maintain market relevance in both domestic and international contexts.

**Key Market Trends** 

Eco-Friendly and Sustainable NBR

The India Nitrile Butadiene Rubber (NBR) market is currently experiencing substantial growth, with a significant trend emphasizing the adoption of eco-friendly and sustainable NBR. Nitrile Butadiene Rubber is a versatile synthetic rubber known for its oil and chemical resistance, making it essential in various industrial applications. The surge in demand for eco-friendly and sustainable NBR is driven by several critical factors and is contributing to the expansion of the NBR market. One of the primary drivers of this trend is the growing global awareness of environmental sustainability. Industries are increasingly recognizing the need to reduce their carbon footprint and minimize their impact on the environment. Sustainable NBR, produced using eco-friendly manufacturing processes and renewable resources, aligns with these goals. It not only reduces the environmental impact but also supports the circular economy principles.

Regulatory standards and eco-labels are becoming more stringent and influential. Organizations and governments worldwide are enforcing stricter regulations regarding environmental and sustainability practices. The adoption of eco-friendly NBR allows manufacturers to comply with these standards while demonstrating their commitment to responsible and sustainable production. The demand for sustainable materials in various industries, including automotive, construction, and medical, is growing significantly. As companies strive to reduce their environmental impact, eco-friendly NBR has gained prominence as a suitable alternative to conventional NBR, providing the same performance and chemical resistance characteristics without compromising sustainability.

Hence, the focus on eco-friendly and sustainable NBR is a key driver for the growth of the India Nitrile Butadiene Rubber market. As industries and consumers continue to prioritize environmental responsibility and sustainable practices, the adoption of eco-friendly NBR reflects India's commitment to responsible and eco-conscious manufacturing. This trend contributes to the expansion of the NBR market and positions India as a forward-thinking player in the global rubber industry.

Ongoing Research and Development Efforts Aim to Improve the Performance Characteristics of NBR

The India Nitrile Butadiene Rubber (NBR) market is currently experiencing robust growth, and a pivotal trend within this market is the ongoing research and development (R&D) efforts aimed at improving the performance characteristics of NBR. Nitrile Butadiene Rubber is a highly versatile synthetic rubber known for its exceptional resistance to oil, chemicals, and abrasion, making it a crucial material in various industrial applications. The emphasis on continuous R&D to enhance NBR's performance characteristics is driven by several important factors and plays a central role in the expansion of the NBR market.

One of the primary drivers of this trend is the ever-evolving needs of industries such as automotive, aerospace, and oil and gas. These sectors require NBR with improved properties, including better tensile strength, elongation, and resistance to extreme temperatures. Ongoing R&D efforts are dedicated to addressing these specific performance requirements and developing customized NBR formulations that meet the industry's stringent demands.

Technological advancements and innovative formulations have provided opportunities for enhancing NBR's performance

attributes. Researchers are focusing on developing NBR compounds that offer enhanced performance without compromising other essential characteristics, such as chemical resistance. This trend reflects the commitment to creating high-performance materials capable of meeting the increasingly demanding applications across various industries.

Also, the global competition and the quest for higher efficiency and cost-effectiveness are propelling ongoing R&D activities in the NBR market. The development of NBR with improved performance characteristics ensures that Indian manufacturers can meet the global standards for quality and performance, allowing them to remain competitive in international markets.

Segmental Insights

**Application Insights** 

Based on the application, the automotive segment is projected to experience rapid growth during the forecast period. This growth is attributed to the growth of the automotive industry, NBR's suitability for automotive applications, the need for high-quality materials in both domestic and international markets, and NBR's role in essential automotive components.

The automotive industry in India has been witnessing significant growth, driven by factors such as rising disposable incomes, increased urbanization, and greater demand for personal transportation. NBR is a critical material in the automotive sector, where it is used in various applications, including the manufacturing of automotive seals, gaskets, hoses, and O-rings. These components are essential for the proper functioning of vehicles and are highly reliant on NBR due to its excellent oil and fuel resistance, flexibility, and durability. NBR's properties make it well-suited for automotive applications. It provides excellent resistance to oils, fuels, and other chemicals, ensuring the longevity and reliability of automotive components. This is particularly important in the automotive industry, where safety and performance are paramount. The Indian automotive industry caters to both domestic and international markets, requiring high-quality materials and components to meet international standards. NBR's use in automotive applications aligns with these quality requirements, further solidifying its dominance in the market. NBR is used in various critical applications within vehicles, such as engine components, transmission systems, and braking systems. The reliability of these components depends on the performance of NBR, making it an integral part of the automotive sector.

### Regional Insights

Based on the region, the dominance of the West region in the Indian Nitrile Butadiene Rubber market can be attributed to its strong industrial and chemical presence, strategic location, well-developed logistics, technical expertise, and the diverse industrial landscape that relies on NBR for various applications. These factors collectively establish the West region as a dominant player in the NBR market. The West region of India, which includes states like Gujarat and Maharashtra, is a significant industrial hub. This region is home to various chemical manufacturing clusters and industrial complexes where NBR is produced and processed. The presence of NBR manufacturing facilities, along with a well-established chemical and petrochemical industry, has contributed to the region's dominance in the NBR market. The West region is strategically located with access to major ports and transportation networks. This makes it an ideal distribution and logistics hub, facilitating the import and distribution of NBR to various parts of the country. The efficient supply chain infrastructure ensures a smooth flow of NBR to industries both within the region and in other parts of India.

The West region is known for its strong chemical expertise, research and development capabilities, and a skilled workforce. These attributes are vital for the production, innovation, and development of NBR-based products. The region's technical proficiency in handling NBR has further solidified its position in the market. The West region has a diverse industrial landscape that includes the automotive, engineering, manufacturing, and textile sectors. These industries are significant consumers of NBR for various applications, including gaskets, hoses, seals, and other critical components. The proximity of NBR manufacturers to these industrial sectors has bolstered the region's dominance in the NBR market.

| Key Market Players                                    |
|---|
| □□Unique Autorubber Udyog Pvt. Ltd.                   |
| □□Analco India Pvt. Ltd.                              |
| ☐Reliance Industries Ltd.                             |
| $\hfill\Box$ Arihant Solvents and Chemicals Pvt. Ltd. |
|   |
| Report Scope:   |

In this report, the India Nitrile Butadiene Rubber Market has been segmented into the following categories, in addition to the

| industry trends which have also been detailed below:      |  |
|---|--|
| □ India Nitrile Butadiene Rubber Market, By Product Type: |  |
| o Hoses   |  |
| o Belts   |  |
| o Cables  |  |
| o Molded Seals  |  |
| o O-rings   |  |
| o Gloves  |  |
| □ India Nitrile Butadiene Rubber Market, By Application:  |  |
| o Automotive  |  |
| o Oil & Gas   |  |
| o Mining  |  |
| o Construction  |  |
| o Medical   |  |
| o Others  |  |
| □ India Nitrile Butadiene Rubber Market, By Region:       |  |
| o West India  |  |
| o North India   |  |
| o South India   |  |
| o East India  |  |
| Competitive Landscape                                     |  |

Company Profiles: Detailed analysis of the major companies presents in the India Nitrile Butadiene Rubber Market.

Available Customizations:

India Nitrile Butadiene Rubber 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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