

United States Advanced Tire Market, By Vehicle Type (On-Highway, Off-Highway), By Technology Type (Chip-Embedded Tires, Self-Inflating Tires, TPMS, Multi Chambered Tires), By Tire Type (Run-Flat, Airless, Pneumatic), By Sales Channel (OEM, Replacement), By Region, Competition, Forecast & Opportunities, 2020-2030F

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Report description:

Market Overview

The United States Advanced Tire Market, valued at USD 3.43 billion in 2024, is projected to reach USD 4.63 billion by 2030, expanding at a CAGR of 5.18% during the forecast period. This evolving market segment plays a critical role in the broader automotive landscape, especially as the shift from internal combustion engine (ICE) vehicles to electric and autonomous vehicles accelerates. The increasing electrification of vehicles is a major catalyst, driving demand for technologically advanced tires that support high-voltage power management and battery monitoring. These advanced tires are pivotal in enabling safe, efficient, and connected mobility in modern vehicles, meeting the rising expectations for performance, safety, and energy efficiency across the automotive industry.

Key Market Drivers

Technological Advancements

Technological progress is a primary driver behind the expansion of the United States Advanced Tire Market. Innovations in tire materials, construction techniques, and design have led to the development of next-generation tires with enhanced safety, performance, and energy efficiency. Notably, smart tires-equipped with IoT and sensor technologies-are capable of capturing real-time metrics like pressure, temperature, and tread wear, transmitting this data to a vehicle's onboard system for proactive maintenance and safety. Additionally, run-flat tires, which allow continued driving after a puncture or air pressure loss, contribute to improved reliability and convenience, eliminating the immediate need for roadside service.

Key Market Challenges

Regulatory Compliance and Stringent Standards

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Meeting regulatory requirements poses a significant challenge in the United States Advanced Tire Market. Government agencies are enforcing stricter standards aimed at improving vehicle safety, fuel efficiency, and reducing environmental impact. As a result, manufacturers are under pressure to innovate with low rolling resistance tires that help decrease energy loss and emissions. Compliance necessitates investment in advanced materials, optimized tread patterns, and efficient production processes. Furthermore, tire labeling regulations now mandate clear and accurate disclosures about fuel efficiency, wet grip, and noise performance, requiring manufacturers to implement rigorous testing and quality assurance measures to meet these transparency requirements.

Key Market Trends

Growth in Electric Vehicle (EV) Adoption

A major trend influencing the United States Advanced Tire Market is the increasing adoption of electric vehicles (EVs). With rising environmental awareness, government incentives, and advancements in battery technology, EVs have gained significant traction. This transition demands specialized tires capable of supporting the higher weight of EVs, offering enhanced load-bearing features and reinforced sidewalls. Additionally, to maximize driving range, EVs require low rolling resistance tires that improve energy efficiency. In 2023, EV sales in the U.S. reached 1.6 million units, marking a 60% increase from 2022, with projections surpassing 2 million units in 2024. This growth is fueling demand for EV-optimized tires that offer durability, efficiency, and noise reduction.

Key Market Players

- Bridgestone Corporation
- Continental AG
- Goodyear Tire & Rubber Company
- Michelin
- The Yokohama Rubber Company Limited
- CEAT Ltd.
- Pirelli & C. S.p.A.
- Sumitomo Corporation
- Hankook Tire
- Nokian Tyres Oyj.

Report Scope:

In this report, the United States Advanced Tire Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- United States Advanced Tire Market, By Vehicle Type:
 - o On-Highway
 - o Off-Highway
- United States Advanced Tire Market, By Technology Type:
 - o Chip-Embedded Tires
 - o Self-Inflating Tires
 - o TPMS
 - o Multi Chambered Tires
- United States Advanced Tire Market, By Tire Type:
 - o Run-Flat
 - o Airless
 - o Pneumatic
- United States Advanced Tire Market, By Sales Channel:
 - o OEM
 - o Replacement
- United States Advanced Tire Market, By Region:
 - o South
 - o West

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o Northeast

o Midwest

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the United States Advanced Tire Market.

Available Customizations:

United States Advanced Tire 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).

Table of Contents:

1. Introduction
 - 1.1. Product Overview
 - 1.2. Key Highlights of the Report
 - 1.3. Market Coverage
 - 1.4. Market Segments Covered
 - 1.5. Research Tenure Considered
2. Research Methodology
 - 2.1. Methodology Landscape
 - 2.2. Objective of the Study
 - 2.3. Baseline Methodology
 - 2.4. Formulation of the Scope
 - 2.5. Assumptions and Limitations
 - 2.6. Sources of Research
 - 2.7. Approach for the Market Study
 - 2.8. Methodology Followed for Calculation of Market Size & Market Shares
 - 2.9. Forecasting Methodology
3. Executive Summary
 - 3.1. Overview of the Market
 - 3.2. Overview of Key Market Segmentations
 - 3.3. Overview of Key Market Players
 - 3.4. Overview of Key Regions
 - 3.5. Overview of Market Drivers, Challenges, and Trends
4. United States Advanced Tire Market Outlook
 - 4.1. Market Size & Forecast
 - 4.1.1. By Value
 - 4.2. Market Share & Forecast
 - 4.2.1. By Vehicle Type (On-Highway, Off-Highway)
 - 4.2.2. By Technology Type (Chip-Embedded Tires, Self-Inflating Tires, TPMS, Multi Chambered Tires)
 - 4.2.3. By Tire Type (Run-Flat, Airless, Pneumatic)
 - 4.2.4. By Sales Channel (OEM, Replacement)
 - 4.2.5. By Regional
 - 4.2.6. By Company (2024)
 - 4.3. Market Map
5. United States On-Highway Market Outlook
 - 5.1. Market Size & Forecast

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- 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Technology Type
 - 5.2.2. By Tire Type
 - 5.2.3. By Sales Channel
- 6. United States Off-Highway Market Outlook
 - 6.1. Market Size & Forecast
 - 6.1.1. By Value
 - 6.2. Market Share & Forecast
 - 6.2.1. By Technology Type
 - 6.2.2. By Tire Type
 - 6.2.3. By Sales Channel
- 7. Market Dynamics
 - 7.1. Drivers
 - 7.2. Challenges
- 8. Market Trends & Developments
 - 8.1. Merger & Acquisition (If Any)
 - 8.2. Product Launches (If Any)
 - 8.3. Recent Developments
- 9. Disruptions: Conflicts, Pandemics and Trade Barriers
- 10. Porter's Five Forces Analysis
- 11. Policy & Regulatory Landscape
- 12. United States Economic Profile
- 13. Competitive Landscape
 - 13.1. Company Profiles
 - 13.1.1. Bridgestone Corporation
 - 13.1.1.1. Business Overview
 - 13.1.1.2. Company Snapshot
 - 13.1.1.3. Products & Services
 - 13.1.1.4. Financials (As Per Availability)
 - 13.1.1.5. Key Market Focus & Geographical Presence
 - 13.1.1.6. Recent Developments
 - 13.1.1.7. Key Management Personnel
 - 13.1.2. Continental AG
 - 13.1.3. Goodyear Tire & Rubber Company
 - 13.1.4. Michelin
 - 13.1.5. The Yokohama Rubber Company Limited
 - 13.1.6. CEAT Ltd.
 - 13.1.7. Pirelli & C. S.p.A.
 - 13.1.8. Sumitomo Corporation
 - 13.1.9. Hankook Tire
 - 13.1.10. Nokian Tyres Oyj.
- 14. Strategic Recommendations
- 15. About Us & Disclaimer

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