

Global 4,6-Di-tert-butyl-o-cresol for Rubber Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 4,6-Di-tert-butyl-o-cresol for Rubber market size was valued at US\$ 42.39 million in 2025 and is forecast to a readjusted size of US\$ 67.26 million by 2032 with a CAGR of 6.7% during review period.

4,6-Di-tert-butyl-o-cresol for Rubber, also referred to as rubber-grade 4,6-di-tert-butyl-o-cresol or 2,4-di-tert-butyl-6-methylphenol, is a hindered phenolic antioxidant material and antioxidant intermediate used in rubber and elastomer formulations. Key upstream inputs include o-cresol, isobutylene or tert-butanol, acidic catalysts, solvents, refining aids and industrial packaging materials, while the production process typically involves alkylation, separation, distillation or crystallization. Major downstream customers include tire producers, automotive seal and hose manufacturers, technical rubber goods producers, synthetic rubber processors, rubber additive compounders and antioxidant intermediate buyers. The global production capacity in 2025 is estimated at about 10,500 tons per year, with sales volume of about 6,472 tons, an average selling price of about USD 6,365 per ton and a gross margin range of about 24.0%?36.0%.

From the current market perspective, 4,6-Di-tert-butyl-o-cresol for Rubber is a niche segment within hindered phenolic antioxidants and antioxidant intermediates. Although the market size is limited, it has stable demand in selected high-performance rubber compounds and blended antioxidant systems. The product is mainly used to improve the stability of rubber materials under thermal oxidation, ultraviolet exposure, ozone aging and long-term storage conditions, making it suitable for tires, seals, hoses, belts, cable sheaths and industrial rubber goods that require aging resistance. Since rubber formulations usually require long validation cycles and additive replacement costs are

relatively high, products already qualified in customer systems tend to have certain formulation stickiness.

From the supply-side perspective, the market is served by a limited number of alkylphenol and phenolic antioxidant producers, fine chemical companies and custom synthesis suppliers. Overall market concentration is not high, but the number of companies capable of stable industrial-scale delivery is limited. Chinese suppliers have cost and feedstock advantages in o-cresol, tert-butylphenol and phenolic intermediate value chains, enabling them to serve rubber-grade and industrial-grade demand. Overseas suppliers are more often supported by alkylphenol, hindered phenolic antioxidant and rubber additive systems for higher-end customers. Competition mainly depends on raw-material stability, isomer control, purity, color, melting-point range, batch consistency, environmental compliance and compatibility with customer formulations.

In terms of future development, 4,6-Di-tert-butyl-o-cresol for Rubber will continue to move toward higher purity, lower impurity levels, lower color, stable melting-point range and application-specific blending. As automotive lightweighting, new-energy vehicle sealing systems, industrial hoses and belts, rail transit and cable materials raise requirements for heat resistance, aging resistance and long service life, rubber antioxidant systems will place greater emphasis on the synergistic effects among hindered phenols, amine antioxidants, thioesters and phosphite additives. At the same time, some customers will prefer stable antioxidant packages rather than single raw materials, encouraging suppliers to extend from single-product sales to formulation support and customized products.

Growth momentum mainly comes from upgrades in automotive rubber components, growth in industrial rubber goods, higher durability requirements for tires and rubber seals, and the continued development of rubber additive value chains in China and Asia. Key constraints include the small market size, substitution pressure from other hindered phenols and amine antidegradants, volatility in o-cresol and isobutylene prices, stricter environmental and safety regulation, and the preference of some downstream customers for mature bulk antioxidant categories. Overall, 4,6-Di-tert-butyl-o-cresol for Rubber is unlikely to become a mass-volume product, but demand from high-reliability rubber goods and blended antioxidant systems should support moderate growth and structural upgrading.

This report is a detailed and comprehensive analysis for global 4,6-Di-tert-butyl-o-cresol for Rubber market. Both quantitative and qualitative analyses are presented by

manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 4,6-Di-tert-butyl-o-cresol for Rubber market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 4,6-Di-tert-butyl-o-cresol for Rubber market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 4,6-Di-tert-butyl-o-cresol for Rubber market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global 4,6-Di-tert-butyl-o-cresol for Rubber market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for 4,6-Di-tert-butyl-o-cresol for Rubber

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global 4,6-Di-tert-butyl-o-cresol for Rubber market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Jiyi Holding Group, Nanjing Datang Chemical, SI Group, Hubei Tuobang Chemical, Anant Pharmaceuticals, Shandong

Hanbo Chemical, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

4,6-Di-tert-butyl-o-cresol for Rubber market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Standard Grade (95%-98%)

High-purity Grade (Above 98%)

Ultra-high-purity Grade (Above 99%)

Market segment by Rubber Type

Natural Rubber

Styrene-butadiene Rubber

Butadiene Rubber

Other

Market segment by Product Form

Crystalline Solid

Powder / Flake

Other

Market segment by Application

Tires

Automotive Rubber Parts

Industrial Rubber Products

Other

Major players covered

Jiyi Holding Group

Nanjing Datang Chemical

SI Group

Hubei Tuobang Chemical

Anant Pharmaceuticals

Shandong Hanbo Chemical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 4,6-Di-tert-butyl-o-cresol for Rubber product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 4,6-Di-tert-butyl-o-cresol for Rubber, with price, sales quantity, revenue, and global market share of 4,6-Di-tert-butyl-o-cresol for Rubber from 2021 to 2026.

Chapter 3, the 4,6-Di-tert-butyl-o-cresol for Rubber competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 4,6-Di-tert-butyl-o-cresol for Rubber breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 4,6-Di-tert-butyl-o-cresol for Rubber market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 4,6-Di-tert-butyl-o-cresol for Rubber.

Chapter 14 and 15, to describe 4,6-Di-tert-butyl-o-cresol for Rubber sales channel, distributors, customers, research findings and conclusion.

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