

# Global 6PPD Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global 6PPD market size was valued at US\$ 1083 million in 2024 and is forecast to a readjusted size of USD 1407 million by 2031 with a CAGR of 3.8% during review period.

6PPD, fully named N-(1,3-dimethylbutyl)-N'-phenyl-p-phenylenediamine, is an antioxidant and antiozonant that helps prevent the degradation and cracking of rubber compounds caused by exposure to oxygen, ozone and temperature fluctuation. 6PPD is used industry wide to help tires resist degradation and cracking, which is vital for driver and passenger safety.

### Rigid Demand:

6PPD is an antidegradant (antioxidant and antiozonant) added to tire rubber to protect the rubber polymer from reaction with oxygen (O<sub>2</sub>) and ozone (O<sub>3</sub>). Oxidation renders tire rubber brittle, leading to the formation of cracks, particularly under dynamic stress, which can compromise the performance and safety of tires. Several qualities of 6PPD make it an optimal antidegradant for tires, including its solubility and mobility in rubber, reactivity with ozone, and compatibility with the suite of chemicals and processes used to create tires. 6PPD is also used to protect the rubber in transmission belts, hoses, automotive mounts and bushings, and other mechanical products. It is one of several para-phenylenediamine (PPD) additives used to protect rubber materials. Tire manufacturers have used 6PPD since the 1950s to keep tires from degrading too quickly. Market demand of 6PPD is still very rigid presently, which supports the industry to grow slowly and steadily.

### Emerging Substitutes:

One of the most important concerns of 6PPD is its threat to environment. 6PPD has been used in tires for 60 years. As tires wear, tiny particles of rubber are left behind on roads and parking lots, breaking down into a byproduct, 6PPD-quinone, that is deadly to salmon, steelhead trout and other aquatic wildlife when rains wash it into rivers. Due to such concerns in the recent two years, some 6PPD manufacturers are trying to research and develop innovative products to replace 6PPD. It is believed that in the coming years, new substitutes will come to the market.

#### Price Fluctuations:

Key raw materials of 6PPD, are 4-ADPA and MIBK, have high technology barrier. Supply and price changes of raw materials will impact the 6PPD market accordingly.

This report is a detailed and comprehensive analysis for global 6PPD 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 6PPD market size and forecasts, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (US\$/Ton), 2020-2031

Global 6PPD market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (US\$/Ton), 2020-2031

Global 6PPD market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (US\$/Ton), 2020-2031

Global 6PPD market shares of main players, shipments in revenue (\$ Million), sales quantity (K MT), and ASP (US\$/Ton), 2020-2025

#### 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 6PPD  
To forecast future growth in each product and end-use market  
To forecast future factors affecting the marketplace

This report profiles key players in the global 6PPD 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 Sennics, Flexsys, KKPC, China Sunsine Chemical Holdings, LANXESS, Sinopec Nanjing Chemical Industries, Duslo, Shandong Stair Chemical Technology, NOCIL, Kawaguchi Chemical Industry, etc.

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

## **Market Segmentation**

6PPD market is split by Type and by Application. For the period 2020-2031, 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**

Pastilles

Liquid

### **Market segment by Application**

Tires

Rubber Products

Polymer Modification

Other

## Major players covered

Sennics

Flexsys

KKPC

China Sunsine Chemical Holdings

LANXESS

Sinopec Nanjing Chemical Industries

Duslo

Shandong Stair Chemical Technology

NOCIL

Kawaguchi Chemical Industry

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 6PPD product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 6PPD, with price, sales quantity, revenue, and global market share of 6PPD from 2020 to 2025.

Chapter 3, the 6PPD competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 6PPD breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and 6PPD market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 6PPD.

Chapter 14 and 15, to describe 6PPD sales channel, distributors, customers, research findings and conclusion.

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