

# Global N-Isopropyl-N-phenyl-1,4-phenylenediamine 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 N-Isopropyl-N-phenyl-1,4-phenylenediamine market size was valued at US\$ 167 million in 2025 and is forecast to a readjusted size of US\$ 215 million by 2032 with a CAGR of 4.0% during review period.

Global sales of N-Isopropyl-N-phenyl-1,4-phenylenediamine was about 32040 tons in 2024 with average price of 5020 USD/ton. N-Isopropyl-N-phenyl-1,4-phenylenediamine belongs to PPDs antioxidants. In the PPDs family, 6PPD is the most common one. The average gross margin of the industry ranges from 15%-20%.

N-Isopropyl-N-phenyl-1,4-phenylenediamine is an amine-type rubber antidegradant, also called IPPD. It is used mainly as an antioxidant and antiozonant in vulcanized rubber to slow degradation caused by oxygen, ozone, heat, and dynamic flexing, helping reduce cracking (especially ozone/flex cracking) and extending service life.

Market drivers: As a classic amine antidegradant, N-Isopropyl-N-phenyl-1,4-phenylenediamine provides antioxidant protection together with strong antiozonant/anti-flex-cracking performance, keeping it relevant in tires, hoses/belts, vibration-control parts, and seals where dynamic fatigue + heat/oxygen + ozone drive failure. Rising expectations for durability, shelf-life, and harsh-service performance (heat, speed, load, outdoor ozone exposure), plus ongoing replacement demand in tires and reliability upgrades in industrial rubber goods, continue to support consumption and formulation upgrades around N-Isopropyl-N-phenyl-1,4-phenylenediamine-based protection systems.

Market challenges: N-Isopropyl-N-phenyl-1,4-phenylenediamine is a staining, migratory amine antidegradant, which can cause discoloration, blooming/transfer contamination, and compatibility issues with downstream bonding/painting?limiting its use in light-colored or appearance-sensitive products. Its dispersion and migration behavior are also highly dependent on polymer type, cure system, and processing window, leading to long qualification cycles. Feedstock/energy cost volatility and increasing environmental/compliance attention on amine / p-phenylenediamine chemistries further add uncertainty to cost control and market access.

Market trends: The direction is ?high protection with fewer side effects.? Formulators increasingly rely on synergistic blends (e.g., combining N-Isopropyl-N-phenyl-1,4-phenylenediamine with hindered phenols, TMQ, and other antioxidants) to reduce total amine loading and mitigate migration-related risks while maintaining dynamic ozone resistance. On the product side, pre-dispersed masterbatches and low-dust, processing-friendly forms are gaining share. In parallel, the industry is actively developing lower-staining/low-migration, polymer-bound, or alternative antiozonant approaches to meet higher expectations on appearance, downstream process compatibility, and sustainability compliance?pushing N-Isopropyl-N-phenyl-1,4-phenylenediamine from a purely commodity choice toward more application-specific, system-level solutions.

This report is a detailed and comprehensive analysis for global N-Isopropyl-N-phenyl-1,4-phenylenediamine 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 N-Isopropyl-N-phenyl-1,4-phenylenediamine market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global N-Isopropyl-N-phenyl-1,4-phenylenediamine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global N-Isopropyl-N?-phenyl-1,4-phenylenediamine 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 N-Isopropyl-N?-phenyl-1,4-phenylenediamine 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 N-Isopropyl-N?-phenyl-1,4-phenylenediamine

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 N-Isopropyl-N?-phenyl-1,4-phenylenediamine 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 Lanxess, Sennics, China Sunshin Chemical, Duslo, Stair Chemical & Technology, Henan Kailun Chemical, Weifang Zhong An Rubber Chemicals, Donghai Chemical, etc.

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

### **Market Segmentation**

N-Isopropyl-N?-phenyl-1,4-phenylenediamine 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

?95% Purity

92% Purity

## Market segment by Application

Natural Rubber

Synthetic Rubber

## Major players covered

Lanxess

Sennics

China Sunsine Chemical

Duslo

Stair Chemical & Technology

Henan Kailun Chemical

Weifang Zhong An Rubber Chemicals

Donghai 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 N-Isopropyl-N-phenyl-1,4-phenylenediamine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of N-Isopropyl-N-phenyl-1,4-phenylenediamine, with price, sales quantity, revenue, and global market share of N-Isopropyl-N-phenyl-1,4-phenylenediamine from 2021 to 2026.

Chapter 3, the N-Isopropyl-N-phenyl-1,4-phenylenediamine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the N-Isopropyl-N-phenyl-1,4-phenylenediamine 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 N-Isopropyl-N-phenyl-1,4-phenylenediamine 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 N-Isopropyl-N-phenyl-1,4-phenylenediamine.

Chapter 14 and 15, to describe N-Isopropyl-N'-phenyl-1,4-phenylenediamine sales channel, distributors, customers, research findings and conclusion.

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