

Global Hexamethylenediamine Market Size Study & Forecast, by Application and End-Use Industry, and Regional Forecasts 2025-2035

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Abstracts

The Global Hexamethylenediamine Market is valued at approximately USD 8.15 billion in 2024 and is projected to expand at a compound annual growth rate (CAGR) exceeding 5.30% over the forecast period from 2025 to 2035. Hexamethylenediamine (HMDA), a diamine compound primarily used in the production of nylon 6,6, plays a pivotal role across a variety of industrial applications. This aliphatic amine compound has become indispensable for manufacturing resins, coatings, adhesives, and lubricants due to its excellent chemical reactivity and performance characteristics. Rising demand for lightweight and durable polymers in the automotive and textile sectors has propelled the consumption of HMDA worldwide. Additionally, the growing need for water treatment chemicals and the continuous evolution in surface coating technologies are driving a compelling wave of innovation and investment across the value chain of this market.

The escalating utilization of HMDA in the synthesis of engineering-grade nylon resins for automotive, electronics, and industrial applications has created lucrative growth pathways. For instance, as global automotive manufacturers aggressively pivot towards high-performance plastics to improve fuel efficiency and reduce vehicular weight, demand for HMDA-based materials is accelerating. Nylon 6,6, derived from HMDA, is increasingly replacing metals in automotive components due to its superior mechanical strength and heat resistance. Furthermore, advancements in adhesives and coating formulations that leverage HMDA as a cross-linking agent are reinforcing its adoption across the paints & coatings and construction industries. However, fluctuating raw material prices and growing regulatory scrutiny over amine-based chemicals could potentially temper growth momentum over the coming years.

Regionally, North America led the market in 2024 and is expected to retain its

dominance in 2025 owing to its established nylon production ecosystem, strong presence of leading chemical manufacturers, and an expansive automotive sector that continues to adopt HMDA-based materials. Europe follows closely, benefiting from rising demand for sustainable textiles and industrial chemicals. Meanwhile, Asia Pacific is anticipated to experience the fastest growth during the forecast period. This surge is driven by the rapid industrialization of emerging economies like China and India, increased demand for advanced polymers, and heavy investments in the manufacturing and automotive industries. Rising infrastructure development, along with supportive government initiatives in the region, is also fostering robust consumption of hexamethylenediamine.

Major market players included in this report are:

BASF SE

Ascend Performance Materials

INVISTA

Lanxess AG

Toray Industries, Inc.

Shenma Industrial Co., Ltd.

Solvay S.A.

Radici Group

Evonik Industries AG

DOW Inc.

Ashland Global Holdings Inc.

DuPont de Nemours, Inc.

Celanese Corporation

DSM Engineering Materials

Mitsubishi Chemical Group Corporation

Global Hexamethylenediamine Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values for the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within the countries involved in the study. The report also provides detailed information about crucial aspects, such as driving factors and challenges, which will define the future growth of the market. Additionally, it incorporates potential opportunities in micro-markets for stakeholders to invest, along with a detailed analysis of the competitive landscape and product offerings of key players.

The detailed segments and sub-segments of the market are explained below:

By Application:

Nylon Synthesis

Lubricants

Coating

Adhesives

Others

By End-Use Industry:

Textile

Paints & Coatings

Automotive

Water Treatment

Petrochemical

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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