

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Polyethylene Imine Market 2018, Forecast to 2023

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## Abstracts

Polyethylenimine (PEI) is a polymer with repeating unit composed of the amine group and two carbon aliphatic CH<sub>2</sub>CH<sub>2</sub> spacer. Linear polyethyleneimines contain all secondary amines, in contrast to branched PEIs which contain primary, secondary and tertiary amino groups. Totally branched, dendrimeric forms were also reported. PEI is produced on industrial scale and finds many applications usually derived from its polycationic character.

### SCOPE OF THE REPORT:

This report focuses on the Polyethylene Imine in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application. Polyethyleneimine (PEI) is a water-soluble polymer, reactivity is now used in many industrial processes. It is mainly produced by two Companies established worldwide, the Nippon Shokubai Company, Ltd. (Japan) under the Trade names EPOMIN® and BASF-AG Ludwigshafen (Germany) under the Trade names Lupasol®. There are also supplier from china serves especially local market, such as Wuhan Qianglong Chemical and Gobekie. In terms of volume, the Global Polyethylene Imine market sales was 11996 MT in 2016, and is predicted to reach 15239 MT in 2023, with a CAGR 3.48% from 2016 to 2023. The global Polyethylene Imine market is valued at USD 390.33 million in 2016 and is expected to reach USD 436.43 million by the end of 2023, growing at a CAGR of 1.61% between 2016 and 2023. PEI consists of a mixture of branched polymers with different molecular weight. On the market are polymers with average molecular weights of between 300 and 2,000,000, both in Water-free form, as well as an aqueous solution. PEI and its derivatives are

being used today especially in the paper industry.

Raw material of PEI is ethyleneimine monomer. Because of its toxicity, ethyleneimine monomer is not sold by the BASF group or Nippon Shokubai, currently the only large producers. Ethyleneimine is used on-site for further reaction to produce polymers and intermediates.

The Polyethylene Imine industry has high technical barrier, which limits the entrance of the market. Moreover, the production of PEI involves high risk, since its raw material, ethylene Imine is a high toxic, flammable and explosive substance. The permission of production is hard to permit by local authorities, especially in developed areas. The PEI is a niche market, making manufacturers have the bargaining power over customers. However, the product has other substitute, the customer would also turn to other product if they cannot accept the price. To Polyethylene Imine manufacturers, the core of brand building is in quality control and technological innovation. The company has to keep close to downstream users to cater their demand.

The worldwide market for Polyethylene Imine is expected to grow at a CAGR of roughly 1.5% over the next five years, will reach 440 million US\$ in 2023, from 410 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

BASF

NIPPON SHOKUBAI

Wuhan Qianglong Chemical.

Gobekie

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Assay: ?50%

Assay: 90%-99%

Market Segment by Applications, can be divided into

Paper-making Industry

Electroplating Industry

Biomedicine Industry

Coating Industry

Water Treatment Industry

Others

There are 15 Chapters to deeply display the global Polyethylene Imine market.

Chapter 1, to describe Polyethylene Imine Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Polyethylene Imine, with sales, revenue, and price of Polyethylene Imine, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Polyethylene Imine, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Polyethylene Imine market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Polyethylene Imine sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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