

# Polysilazane Market - Global Outlook and Forecast 2022-2028

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## Abstracts

Polysilazanes are polymers in which silicon and nitrogen atoms alternate to form the basic backbone. Since each silicon atom is bound to two separate nitrogen atoms and each nitrogen atom to two silicon atoms, both chains and rings of the formula  $[R_1R_2Si-NR_3]_n$  occur.  $R_1-R_3$  can be hydrogen atoms or organic substituents. If all substituents  $R$  are H atoms, the polymer is designated as Perhydropolysilazane, Polyperhydridosilazane, or Inorganic Polysilazane  $([H_2Si-NH]_n)$ . If hydrocarbon substituents are bound to the silicon atoms, the polymers are designated as Organopolysilazanes. Molecularly, polysilazanes  $[R_1R_2Si-NH]_n$  are isoelectronic with and close relatives to Polysiloxanes  $[R_1R_2Si-O]_n$  (silicones).

Polysilazanes are colorless to pale yellow liquids or solid materials. Conditional of manufacturing, the liquids often contain dissolved ammonia that can be detected by smell. The average molecular weight can range from a few thousand to approximately 100,000 g/mol while the density normally lies around 1 g/cm<sup>3</sup>. The state of aggregation and the viscosity are both dependent on the molecular mass and the molecular macrostructure. Solid polysilazanes are produced by chemical conversion of the liquid materials (crosslinking of smaller molecules). The solid materials can be fusible or unmeltable and can be soluble or insoluble in organic solvents. As a rule, polysilazane solids behave as thermosetting polymers, but in some cases, thermoplastic processing is possible.

The synthesis of polyorganosilazanes was first described in 1964 by Krüger and Rochow. By reacting ammonia with chlorosilanes (ammonolysis), trimeric or tetrameric cyclosilazanes were formed initially and further reacted at high temperatures with a catalyst to yield higher molecular weight polymers. Ammonolysis of chlorosilanes still represents the most important synthetic pathway to polysilazanes.

This report contains market size and forecasts of Polysilazane in global, including the following market information:

Global Polysilazane Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Polysilazane Market Sales, 2017-2022, 2023-2028, (Kg)

Global top five Polysilazane companies in 2021 (%)

The global Polysilazane market was valued at 23120 million in 2021 and is projected to reach US\$ 67180 million by 2028, at a CAGR of 16.5% during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Organic Polysilazanes (OPSZ) Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Polysilazane include Merck KGaA, DNF Solution, Iota Silicone Oil and UP Chemical, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Polysilazane manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Polysilazane Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (Kg)

Global Polysilazane Market Segment Percentages, by Type, 2021 (%)

Organic Polysilazanes (OPSZ)

Perhydropolysilazanes (PHPS)

Global Polysilazane Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (Kg)

Global Polysilazane Market Segment Percentages, by Application, 2021 (%)

Coating Materials

Ceramic Precursor

Composite Materials

Others

Global Polysilazane Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (Kg)

Global Polysilazane Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

## Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Polysilazane revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Polysilazane revenues share in global market, 2021 (%)

Key companies Polysilazane sales in global market, 2017-2022 (Estimated), (Kg)

Key companies Polysilazane sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Merck KGaA

DNF Solution

Iota Silicone Oil

UP Chemical

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