

# Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Silicon Nitride Ceramic Substrate Market 2018, Forecast to 2023

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## Abstracts

Silicon nitride ceramic substrate is a physical material that made of silicon nitride, upon which a semiconductor device, a photovoltaic cell or an integrated circuit, is applied. Silicon nitride with high thermal conductivity has emerged as one of the most promising substrate materials for the next-generation power devices.

### Scope of the Report:

This report focuses on the Silicon Nitride Ceramic Substrate 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. Globally, silicon nitride ceramic substrate producers are concentrated in Asia, with Japan produce and consume a majority share of products. Germany is also leading supplier of silicon nitride ceramic substrate. In 2016, the production market share of Japan, China, USA and Europe are 59%, 3%, 9% and 23% separately.

Silicon nitride ceramic substrate is a concentrated industry with several companies dominates the market. Leading players in silicon nitride substrate industry are Toshiba Materials, Rogers Corp, Kyocera, MARUWA, Coors Tek, Denka, Tomley Hi-tech, etc. In 2016, the production volume of the top four producers accounted for 67% of the whole market.

The material of silicon nitride ceramic substrate is mainly silicon nitride powder. Since Silicon Nitride ceramic substrate is a niche market, the influence of raw material is not the primary factor that affects the price. Technical expenses, relationship with downstream users are more essential to the market. The largest consumption area of

silicon nitride ceramic substrate is power module, which accounted for 58% of world silicon nitride ceramic substrate consumption in 2016. Heat sinks, LED and wireless modules are also important applications of silicon nitride ceramic substrate.

The global silicon nitride ceramic substrate production volume will increase to 302 M Sq.cm in 2022, from 249 M Sq.cm in 2016. It is estimated that the global silicon nitride ceramic substrate demand will develop with an average growth rate of around 3.29% in the coming five years.

The worldwide market for Silicon Nitride Ceramic Substrate is expected to grow at a CAGR of roughly 2.1% over the next five years, will reach 94 million US\$ in 2023, from 82 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Toshiba Materials

Rogers Corp

Kyocera

MARUWA

Coors Tek

Denka

Tomley Hi-tech

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

High Thermal Conductivity Substrate

Regular Substrate

Others

Market Segment by Applications, can be divided into

Power Module

Heat Sinks

LED

Wireless Modules

Others

There are 15 Chapters to deeply display the global Silicon Nitride Ceramic Substrate market.

Chapter 1, to describe Silicon Nitride Ceramic Substrate Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Silicon Nitride Ceramic Substrate, with sales, revenue, and price of Silicon Nitride Ceramic Substrate, 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 Silicon Nitride Ceramic Substrate, 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, Silicon Nitride Ceramic Substrate market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Silicon Nitride Ceramic Substrate sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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