

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

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# **Abstracts**

Nano-zirconia refers to the zirconia product with the particle size in the nano-grade, including zirconia and composite zirconia.

Nano zirconia, also ZrO2 nanoparticle, is white powder of high purity; Composite zirconia refers to the composites of zirconium oxychloride and rare earth. According to the different formulations, the proportion of rare earth in the composites always changes. Yttrium oxide is most popular rare earth used in the composite, others also include lanthanum oxide and cerium carbonate and so on.

### Scope of the Report:

This report focuses on the Nano-Zirconia 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. Nano-zirconia industry has high technology barrier and is technology intensive industry. Currently, there are several producing companies in the world nano-zirconia industry. The main market players are Daiichi Kigenso Kagaku Kogyo, Saint-Gobain, Tosoh, Orient Zirconic, Kingan and Solvay. The production of nano-zirconia will increase to 29709 MT in 2016 from 24206 MT in 2011 with average growth rate of 4.19%. Global nano-zirconia capacity utilization rate remained at around 70.39% in 2015. In consumption market, the global consumption value of nano-zirconia increases with the 1.36% average growth rate. Europe and Japan are the mainly consumption regions due to the bigger demand of downstream applications. In 2015, these two regions occupied 61.20% of the global consumption volume in total.

Nano-zirconia has two industrial manufacturing methods, which include hydrothermal



method and precipitation method. And each type has characteristic relatively. With good performance of nano-zirconia, the downstream application industries will need more nano-zirconia products. So, nano-zirconia has a huge market potential in the future. Manufacturers engaged in this industry are trying to produce high purity and good performance nano-zirconia through improving technology.

The worldwide market for Nano-Zirconia is expected to grow at a CAGR of roughly -0.7% over the next five years, will reach 780 million US\$ in 2023, from 810 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Daiichi Kigenso Kagaku Kogyo
Saint-Gobain
Tosoh
Solvay
Innovnano
MEL Chemicals
KCM Corporation
Showa Denko
Orient Zirconic
Kingan
Sinocera
Jingrui
Huawang

Lida



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

Hydrothermal Method

**Precipitation Method** 

Market Segment by Applications, can be divided into

**Biomaterials** 

**Mechanical Components** 

Automotive Exhaust Treatment

Wear-resistant Products

Special Tool

Others

There are 15 Chapters to deeply display the global Nano-Zirconia market.

Chapter 1, to describe Nano-Zirconia Introduction, product scope, market overview, market opportunities, market risk, market driving force;



Chapter 2, to analyze the top manufacturers of Nano-Zirconia, with sales, revenue, and price of Nano-Zirconia, 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 Nano-Zirconia, 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, Nano-Zirconia market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Nano-Zirconia sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source



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