

# Metal Oxide Nanopowder Trends: Market Research Report

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## Abstracts

Nanomaterials are presently available in various types, including nanopores, nanowires, nanolayers, nanotubes, fullerene, dendrimers, and nanopowders. Metal oxides are the most widely used raw materials for producing nanopowders. Metal Oxide Nanopowders are currently being used by various industries, including consumer goods, electronics, personal care, and automotive. New applications areas are being studied to further evaluate the utility of nanopowders in medical, electronics, and military markets.

The report analyzes and presents an overview of Metal Oxide Nanopowders market worldwide. The report in addition provides global market estimates and projections for Metal Oxide Nanopowders in US dollars and Tons for years 2012 through 2017. Supported with 3 market data tables, the report provides a review of market trends in key regional markets including North America, Europe, Asia-Pacific, and other markets. The report also discusses about the types of nanopowders, applications of Metal Oxide Nanopowders, and pure metal nanopowders. The report also highlights on various strategic industry activities of major companies witnessed by the industry over the last few years. In addition, 53 companies operating in the Metal Oxide Nanopowders arena worldwide including Advanced Fibers & Powders LLC, Baikowski Chimie, MaTeCK GmbH, Nanophase Technologies Corporation, NovaCentrix, Quantum Sphere, Showa Denko KK, Sigma-Aldrich Company, Tosoh Corporation, Umicore SA and other are profiled.

## Contents

### 1. METAL OXIDE NANOPOWDERS – A MARKET OVERVIEW

An Introduction

Size Characteristics

Types of Nanopowders

**Table 1.** Global Metal Oxide Nanopowder Market (2012-2017) in Tons

**Table 2.** Global Metal Oxide Nanopowder Revenue (2012-2017) in US\$ Million

Metal Oxide Nanopowders

Silicon Dioxide (Silica, SiO<sub>2</sub>)

Aluminum Oxide (Alumina, Al<sub>2</sub>O<sub>3</sub>)

Titanium Dioxide (Titania, TiO<sub>2</sub>)

Dysprosium Oxide (Dy<sub>2</sub>O<sub>3</sub>)

Europium Oxide (Eu<sub>2</sub>O<sub>3</sub>)

Neodymium Oxide (Nd<sub>2</sub>O<sub>3</sub>)

Zinc Oxide (ZnO)

**Table 3.** Zinc Oxide Consumption Worldwide by Region (2012): Percentage Market Share Breakdown for Europe, North America, South America, Middle East, Africa, and Far East

Metal Oxide Nanopowders - Applications

Pure Metal Nanopowders

Silicon (Si)

Platinum Metal (Pt)

Gold Metal (Au)

Silver Metal (Ag)

Compounds and Compound Oxide Nanopowders

Tungsten-Cobalt Carbide (WC/Co)

Nanodiamond

Barium Titanate (BaTiO<sub>3</sub>)

Silicon Nitride (Si<sub>3</sub>N<sub>4</sub>)

Indium-Tin Oxide (In<sub>2</sub>O<sub>3</sub>/SnO<sub>2</sub>)

Antimony-Tin Oxide ( $\text{Sb}_2\text{O}_3/\text{SnO}_2$ )

## 2. KEY REGIONAL MARKETS

North America

Europe

Asia-Pacific

Other Markets

## 3. RECENT INDUSTRY ACTIVITY

Iranian Researchers Receive US Patent for Nickel Oxide Nanopowders Fabrication Method

Tosoh Expands Zirconia Production Capacity at Nanyo Complex

Showa Denko Increases Nanoparticle Titanium-Oxide Production Capacity

## 4. MARKET PARTICIPANTS

Advanced Fibers & Powders LLC (USA)

Advanced Machine and Materials, Inc. (Canada)

Advanced Nano Products Co. , Ltd. (Korea)

Alfa Aesar - A Johnson Matthey Company (USA)

Alpha Nanomaterials LLC (USA)

American Elements (USA)

Antaria Ltd. (Australia)

Avanzare Innovacion Tecnologica SL (Spain)

Baikowski Chimie (France)

Entekno (Turkey)

EPRUI Nanoparticles & Microspheres Co. , Ltd. (China)

Grafen Chemical Industries (Turkey)

H. K. Yihel Trading Co. , Ltd. (Hong Kong)

Hefei Quantum Quelle Nano Science and Technology Co. , Ltd. (China)

Inframat Advanced Materials LLC (USA)

Ionic Liquids Technologies GmbH (Germany)

Keeling & Walker Ltd. (UK)

M K Impex - MKnano Division (Canada)

MACH 1, Inc. (USA)

Marion Technologies (France)

MaTeck GmbH (Germany)

MEL Chemicals (UK)  
Meliorum Technologies, Inc. (USA)  
NaBond Technologies Co. , Ltd. (Hong Kong)  
Nanjing High Technology Nano Material Co. , Ltd. (China)  
Nanoe (France)  
Nanograde Ltd. (Switzerland)  
Nano-Oxides, Inc. (USA)  
Nanophase Technologies Corporation (USA)  
Nanoshel LLC (USA)  
Nanostructured & Amorphous Materials, Inc. (USA)  
Nanum Nanotechnologia SA (Brazil)  
NGimat Company (USA)  
NovaCentrix (USA)  
Nyacol Nanotechnologies, Inc. (USA)  
PlasmaChem GmbH (Germany)  
Quantum Sphere, Inc. (USA)  
Reinste Nano Ventures Pvt. , Ltd. (India)  
Shanghai Huzheng Nanotechnology Co. , Ltd. (China)  
Shanghai Yuejiang Titanium Chemical Manufacturer Co. , Ltd. (China)  
Showa Denko KK (Japan)  
Sigma-Aldrich Company LLC (USA)  
SkySpring Nanomaterials, Inc. (USA)  
Strem Chemicals, Inc. (USA)  
Structured Objects & Materials SAS (NanoAmor Europe) (France)  
Sukgyung AT Co. , Ltd. (Korea)  
Sumitomo Osaka Cement Co. , Ltd. (Japan)  
Tecnan - Tecnología Navarra de Nanoproductos SL (Spain)  
Tosoh Corporation (Japan)  
Umicore SA (Belgium)  
US Research Nanomaterials, Inc. (USA)  
Very Small Particle Company Pty. , Ltd. (Australia)  
Xuancheng Jingrui New Material Co. , Ltd. (China)

## **5. APPENDIX**

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