

# **Global Nanoporous Material Market Size study & Forecast, by Type (Zeolites, Clays, Silica Gels, Activated Alumina, Others) by Size (Microporous (0.2-2nm), Mesoporous (2-50nm), Macro porous (Greater than 50nm) by End Use (Petroleum Refining, Water Treatment, Food and Beverages, Chemical Processing, Others) and Regional Analysis, 2023-2030**

<https://marketpublishers.com/r/GA688E16A9C3EN.html>

Date: September 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GA688E16A9C3EN

## **Abstracts**

Global Nanoporous Material Market is valued approximately USD XX billion in 2022 and is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2023-2030. Nanoporous have tiny holes or pores at the nanometer scale. These pores are extremely small, often on the order of billionths of a meter (nanometers). The presence of these nanopores gives the material a unique structure with a large surface area compared to its overall volume. This structure allows for various properties and applications, such as enhanced storage capacity, improved filtration, and increased reactivity in chemical reactions. Essentially, Nanoporous materials have very tiny holes that make them special and useful for different purposes. It's driving factors are energy storage applications, Increasing healthcare investment by various government.

According to Statista The global battery energy storage market was estimated at roughly 5.3 billion U.S. dollars in 2021, and was expected to surpass 10.8 billion dollars in 2026. According to the American Medical Association in 2021, spending was 187.6 billion which was still higher than before the pandemic. Moreover, energy storage and conversion, and biomedical application can create more opportunities in the market. However, the material compatibility and long-term stability stifle market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Nanoporous Material Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. North America dominated the market. The United States has a strong presence in the field of Nanoporous materials due to its robust research infrastructure, well-established academic institutions, and thriving industrial sector. Several leading universities and research centers in the US are actively engaged in Nanoporous materials research, driving innovation and technological advancements.

Asia Pacific is the largest growing region in the market. The region's rapid industrialization, urbanization, and increasing investments in sectors such as electronics, energy storage, and construction have fueled the demand for nanoporous materials.

Major market player included in this report are:

Calgon Carbon Corporation

BASF SE

Exxon Mobil Corporation

Nanosys Inc

Kuraray Co

Zeolyst International

Clariant International Ltd

Chemvriion S.A

Albemarle Corporation

Zeochem Ag

Recent Developments in the Market:

In June 2023, BASF and CPGC collaborated on CO<sub>2</sub> Capture system development. The cooperation aims to address the challenges of energy

efficiency improvement and emission reduction in the maritime sector to meet the growing demand for vessel decarbonization.

In May 2023, Albemarle established a strategic agreement with Ford Motor Company. Albemarle will supply more than 100,000 metric tons of battery-grade lithium hydroxide for approximately 3 million future Ford EV batteries.

#### Global Nanoporous Material Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Type, Size, End User, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope\*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

**By Type:**

Zeolites

Clays

Silica Gels

Activated Alumina

Others

**By Size:**

Microporous (0.2-2nm)

Mesoporous (2-50nm)

Macro porous (Greater than 50nm)

**By End Use:**

Petroleum Refining

Water Treatment

Food and Beverages

Chemical Processing

Others

**By Region:**

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

## Contents

### **CHAPTER 1. EXECUTIVE SUMMARY**

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2030 (USD Billion)
  - 1.2.1. Nanoporous Material Market, by Region, 2020-2030 (USD Billion)
  - 1.2.2. Nanoporous Material Market, by Type, 2020-2030 (USD Billion)
  - 1.2.3. Nanoporous Material Market, by Size, 2020-2030 (USD Billion)
  - 1.2.4. Nanoporous Material Market, by End Use, 2020-2030 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### **CHAPTER 2. GLOBAL NANOPOROUS MATERIAL MARKET DEFINITION AND SCOPE**

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Industry Evolution
  - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### **CHAPTER 3. GLOBAL NANOPOROUS MATERIAL MARKET DYNAMICS**

- 3.1. Nanoporous Material Market Impact Analysis (2020-2030)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Energy Storage Applications
    - 3.1.1.2. Increasing healthcare investments by various government
  - 3.1.2. Market Challenges
    - 3.1.2.1. Material Compatibility
    - 3.1.2.2. Long Term Stability
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Energy Storage and Conversion
    - 3.1.3.2. Biomedical Applications

### **CHAPTER 4. GLOBAL NANOPOROUS MATERIAL MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Impact Analysis
- 4.3. PEST Analysis
  - 4.3.1. Political
  - 4.3.2. Economical
  - 4.3.3. Social
  - 4.3.4. Technological
  - 4.3.5. Environmental
  - 4.3.6. Legal
- 4.4. Top investment opportunity
- 4.5. Top winning strategies
- 4.6. COVID-19 Impact Analysis
- 4.7. Disruptive Trends
- 4.8. Industry Expert Perspective
- 4.9. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL NANOPOROUS MATERIAL MARKET, BY TYPE**

- 5.1. Market Snapshot
- 5.2. Global Nanoporous Material Market by Type, Performance - Potential Analysis
- 5.3. Global Nanoporous Material Market Estimates & Forecasts by Type 2020-2030 (USD Billion)
- 5.4. Nanoporous Material Market, Sub Segment Analysis
  - 5.4.1. Zeolites
  - 5.4.2. Clays
  - 5.4.3. Silica Gels
  - 5.4.4. Activated Alumina
  - 5.4.5. Others

## **CHAPTER 6. GLOBAL NANOPOROUS MATERIAL MARKET, BY SIZE**

- 6.1. Market Snapshot
- 6.2. Global Nanoporous Material Market by Size, Performance - Potential Analysis
- 6.3. Global Nanoporous Material Market Estimates & Forecasts by Size 2020-2030



(USD Billion)

#### 6.4. Nanoporous Material Market, Sub Segment Analysis

6.4.1. Microporous (0.2-2nm)

6.4.2. Mesoporous (2-50nm)

6.4.3. Macro porous (Greater than 50nm)

### **CHAPTER 7. GLOBAL NANOPOROUS MATERIAL MARKET, BY END USE**

#### 7.1. Market Snapshot

#### 7.2. Global Nanoporous Material Market by End Use, Performance - Potential Analysis

#### 7.3. Global Nanoporous Material Market Estimates & Forecasts by End Use 2020-2030

(USD Billion)

#### 7.4. Nanoporous Material Market, Sub Segment Analysis

7.4.1. Petroleum Refining

7.4.2. Water Treatment

7.4.3. Food and Beverages

7.4.4. Chemical Processing

7.4.5. Others

### **CHAPTER 8. GLOBAL NANOPOROUS MATERIAL MARKET, REGIONAL ANALYSIS**

#### 8.1. Top Leading Countries

#### 8.2. Top Emerging Countries

#### 8.3. Nanoporous Material Market, Regional Market Snapshot

#### 8.4. North America Nanoporous Material Market

##### 8.4.1. U.S. Nanoporous Material Market

8.4.1.1. Type breakdown estimates & forecasts, 2020-2030

8.4.1.2. Size breakdown estimates & forecasts, 2020-2030

8.4.1.3. End Use breakdown estimates & forecasts, 2020-2030

##### 8.4.2. Canada Nanoporous Material Market

#### 8.5. Europe Nanoporous Material Market Snapshot

##### 8.5.1. U.K. Nanoporous Material Market

##### 8.5.2. Germany Nanoporous Material Market

##### 8.5.3. France Nanoporous Material Market

##### 8.5.4. Spain Nanoporous Material Market

##### 8.5.5. Italy Nanoporous Material Market

##### 8.5.6. Rest of Europe Nanoporous Material Market

#### 8.6. Asia-Pacific Nanoporous Material Market Snapshot

- 8.6.1. China Nanoporous Material Market
- 8.6.2. India Nanoporous Material Market
- 8.6.3. Japan Nanoporous Material Market
- 8.6.4. Australia Nanoporous Material Market
- 8.6.5. South Korea Nanoporous Material Market
- 8.6.6. Rest of Asia Pacific Nanoporous Material Market
- 8.7. Latin America Nanoporous Material Market Snapshot
  - 8.7.1. Brazil Nanoporous Material Market
  - 8.7.2. Mexico Nanoporous Material Market
- 8.8. Middle East & Africa Nanoporous Material Market
  - 8.8.1. Saudi Arabia Nanoporous Material Market
  - 8.8.2. South Africa Nanoporous Material Market
  - 8.8.3. Rest of Middle East & Africa Nanoporous Material Market

## **CHAPTER 9. COMPETITIVE INTELLIGENCE**

- 9.1. Key Company SWOT Analysis
  - 9.1.1. Company
  - 9.1.2. Company
  - 9.1.3. Company
- 9.2. Top Market Strategies
- 9.3. Company Profiles
  - 9.3.1. Calgon Carbon Corporation
    - 9.3.1.1. Key Information
    - 9.3.1.2. Overview
    - 9.3.1.3. Financial (Subject to Data Availability)
    - 9.3.1.4. Product Summary
    - 9.3.1.5. Recent Developments
  - 9.3.2. BASF SE
  - 9.3.3. Exxon Mobil Corporation
  - 9.3.4. Nanosys Inc
  - 9.3.5. Kuraray Co
  - 9.3.6. Zeolyst International
  - 9.3.7. Clariant International Ltd
  - 9.3.8. Chemvriion S. A
  - 9.3.9. Albemarle Corporation
  - 9.3.10. Zeochem Ag

## **CHAPTER 10. RESEARCH PROCESS**

## 10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

## 10.2. Research Attributes

## 10.3. Research Assumption

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Nanoporous Material Market, report scope

TABLE 2. Global Nanoporous Material Market estimates & forecasts by Region  
2020-2030 (USD Billion)

TABLE 3. Global Nanoporous Material Market estimates & forecasts by Type  
2020-2030 (USD Billion)

TABLE 4. Global Nanoporous Material Market estimates & forecasts by Size 2020-2030  
(USD Billion)

TABLE 5. Global Nanoporous Material Market estimates & forecasts by End Use  
2020-2030 (USD Billion)

TABLE 6. Global Nanoporous Material Market by segment, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 7. Global Nanoporous Material Market by region, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 8. Global Nanoporous Material Market by segment, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 9. Global Nanoporous Material Market by region, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 10. Global Nanoporous Material Market by segment, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 11. Global Nanoporous Material Market by region, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 12. Global Nanoporous Material Market by segment, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 13. Global Nanoporous Material Market by region, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 14. Global Nanoporous Material Market by segment, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 15. Global Nanoporous Material Market by region, estimates & forecasts,  
2020-2030 (USD Billion)

TABLE 16. U.S. Nanoporous Material Market estimates & forecasts, 2020-2030 (USD  
Billion)

TABLE 17. U.S. Nanoporous Material Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 18. U.S. Nanoporous Material Market estimates & forecasts by segment  
2020-2030 (USD Billion)

TABLE 19. Canada Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 20. Canada Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 21. Canada Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 22. UK Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 23. UK Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 24. UK Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 25. Germany Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 26. Germany Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 27. Germany Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 28. France Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 29. France Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 30. France Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 31. Italy Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 32. Italy Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 33. Italy Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 34. Spain Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 35. Spain Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 36. Spain Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 37. RoE Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 38. RoE Nanoporous Material Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 39. RoE Nanoporous Material Market estimates & forecasts by segment

2020-2030 (USD Billion)

TABLE 40. China Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 41. China Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 42. China Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 43. India Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 44. India Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 45. India Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 46. Japan Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 47. Japan Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 48. Japan Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 49. South Korea Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 50. South Korea Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 51. South Korea Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 52. Australia Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 53. Australia Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 54. Australia Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 55. RoAPAC Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 56. RoAPAC Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 57. RoAPAC Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 58. Brazil Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 59. Brazil Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 60. Brazil Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 61. Mexico Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 62. Mexico Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 63. Mexico Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 64. RoLA Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 65. RoLA Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 66. RoLA Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 67. Saudi Arabia Nanoporous Material Market estimates & forecasts, 2020-2030 (USD Billion)

TABLE 68. South Africa Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 69. RoMEA Nanoporous Material Market estimates & forecasts by segment 2020-2030 (USD Billion)

TABLE 70. List of secondary sources, used in the study of global Nanoporous Material Market

TABLE 71. List of primary sources, used in the study of global Nanoporous Material Market

TABLE 72. Years considered for the study

TABLE 73. Exchange rates considered

List of tables and figures and dummy in nature, final lists may vary in the final deliverable

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Nanoporous Material Market, research methodology
  - FIG 2. Global Nanoporous Material Market, Market estimation techniques
  - FIG 3. Global Market size estimates & forecast methods
  - FIG 4. Global Nanoporous Material Market, key trends 2022
  - FIG 5. Global Nanoporous Material Market, growth prospects 2023-2030
  - FIG 6. Global Nanoporous Material Market, porters 5 force model
  - FIG 7. Global Nanoporous Material Market, pest analysis
  - FIG 8. Global Nanoporous Material Market, value chain analysis
  - FIG 9. Global Nanoporous Material Market by segment, 2020 & 2030 (USD Billion)
  - FIG 10. Global Nanoporous Material Market by segment, 2020 & 2030 (USD Billion)
  - FIG 11. Global Nanoporous Material Market by segment, 2020 & 2030 (USD Billion)
  - FIG 12. Global Nanoporous Material Market by segment, 2020 & 2030 (USD Billion)
  - FIG 13. Global Nanoporous Material Market by segment, 2020 & 2030 (USD Billion)
  - FIG 14. Global Nanoporous Material Market, regional snapshot 2020 & 2030
  - FIG 15. North America Nanoporous Material Market 2020 & 2030 (USD Billion)
  - FIG 16. Europe Nanoporous Material Market 2020 & 2030 (USD Billion)
  - FIG 17. Asia pacific Nanoporous Material Market 2020 & 2030 (USD Billion)
  - FIG 18. Latin America Nanoporous Material Market 2020 & 2030 (USD Billion)
  - FIG 19. Middle East & Africa Nanoporous Material Market 2020 & 2030 (USD Billion)
- List of tables and figures and dummy in nature, final lists may vary in the final deliverable



## I would like to order

Product name: Global Nanoporous Material Market Size study & Forecast, by Type (Zeolites, Clays, Silica Gels, Activated Alumina, Others) by Size (Microporous (0.2-2nm), Mesoporous (2-50nm), Macro porous (Greater than 50nm) by End Use (Petroleum Refining, Water Treatment, Food and Beverages, Chemical Processing, Others) and Regional Analysis, 2023-2030

Product link: <https://marketpublishers.com/r/GA688E16A9C3EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GA688E16A9C3EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970