

Diatomite Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Source (Fresh Water Diatomite and Saltwater Diatomite), By Application (Filter Media, Cement Additive, Filler, Absorbent, Insecticides, Others), By Region and Competition

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Abstracts

The Global Diatomite market was valued at USD 1.44 Billion in 2022, and is poised for remarkable growth with a CAGR Of 6.10% by 2028., largely driven by the increasing demand from the agriculture industry. In 2021, China alone had approximately 164.7 million hectares of agricultural land.

Diatomite, also known as diatomaceous earth, is a naturally occurring sedimentary rock comprised of fossilized remains of diatoms. These tiny, single-celled algae thrive in aquatic environments like lakes, rivers, and oceans. Diatomite possesses distinct physical and chemical attributes that render it valuable for various industrial and consumer applications.

One standout characteristic of diatomite is its high porosity, allowing it to absorb liquids and gases several times its own weight. This absorbent quality finds utility in applications like kitty litter, industrial spill cleanup, and filtration of beverages like beer and wine.

The unique structure and porosity of diatomite also make it an excellent filtration medium. Its application spans diverse industries such as beverage production, pharmaceuticals, swimming pool water treatment, and industrial wastewater management.

Diatomite's high absorbency extends its use to diverse areas like kitty litter, industrial spills cleanup, and drying agents in food processing. Moreover, its abrasive properties and moisture absorption capabilities make it an effective natural insecticide and pesticide. As the demand for eco-friendly pest control solutions grows, the market for diatomite-based biopesticides is expected to expand.

The global diatomite market has witnessed steady growth and is anticipated to continue during the forecast period. This trajectory is fueled by the escalating demand across industries like agriculture, filtration, construction, and personal care. The agriculture sector's increasing reliance on diatomite as a soil amendment and natural pesticide drives its demand. The trend towards organic food products further fuels the growth.

The filtration industry is another key catalyst for the global diatomite market. Its remarkable porosity and unique structure qualify it as an exceptional filtration medium in various sectors, including beverages, pharmaceuticals, and industrial wastewater treatment.

However, challenges like high production costs and environmental considerations tied to diatomite mining and processing pose significant hurdles. Furthermore, substitutes like perlite and expanded clay might also impede market growth.

Increasing Demand from Various End-Use Industries is Driving Market Growth

Diatomite finds applications within the personal care sector, functioning as an absorbent in cosmetic and personal care items like deodorants, toothpaste, and face masks. As the demand surges for natural and organic personal care products, the utilization of diatomite within this industry is anticipated to rise, consequently propelling market expansion.

Additionally, diatomite serves various industrial purposes, including insulation, soundproofing, and acting as a filler in paints, plastics, and rubber. The escalating need for insulation materials in the construction domain and the growing utilization of plastics across diverse applications are projected to fuel the requirement for diatomite within industrial applications. This, in turn, is set to contribute to the overall growth of the market.

Filtration and Agriculture Industry is Driving Market Growth

One of the prominent catalysts propelling the global diatomite market is the escalating demand for diatomite within the agriculture sector. Diatomite serves as a soil amendment, enhancing soil structure, water retention, and nutrient accessibility. Its application also extends to functioning as an insecticide and natural pesticide in the realm of organic farming. Given the mounting consumer interest in organic food products, the use of diatomite in agriculture is poised to witness a substantial upswing, thereby fostering market expansion.

Another significant driver of the worldwide diatomite market is the filtration industry. Leveraging diatomite's distinctive characteristics of high porosity and unique structure, it is widely embraced as a superior filtration medium. Its deployment spans diverse industries, encompassing the production of beverages like beer and wine, as well as filtration processes in swimming pool water, pharmaceuticals, and industrial wastewater treatment. The escalating demand for clean and potable water, coupled with the growing recognition of water conservation's significance, is forecasted to propel the demand for diatomite within the filtration sector, thereby making a notable contribution to market growth.

Major Challenges Faced by Diatomite Market

The diatomite market faces a significant challenge in the form of limited availability of high-quality diatomite deposits. These deposits are concentrated in specific geographic regions and lack uniform distribution across the global landscape. Consequently, this situation gives rise to logistical complexities in transportation and can lead to disruptions within the supply chain.

The process of diatomite mining entails substantial costs, particularly in cases where deposits are situated deep underground or in remote areas. The resultant high costs related to both mining and transportation can exert an influence on the overall profitability of diatomite producers. This, in turn, can lead to fluctuations in prices and disruptions in the supply chain.

Furthermore, diatomite contends with competition from alternative products like perlite, vermiculite, and activated carbon, which are capable of performing comparable functions across various applications. Such competitive pressures have the potential to affect the overall demand for diatomite, thereby causing price fluctuations and supply chain disturbances.

The mining and processing of diatomite could also have adverse environmental effects,

especially when open-pit mining techniques are employed. Given the increasing focus on environmental regulations and sustainability concerns, the diatomite market is experiencing heightened scrutiny. This scrutiny may translate into augmented regulatory compliance costs for producers.

The demand for diatomite hinges on multiple end-use sectors, including filtration, agriculture, personal care, and industrial applications. Fluctuations within these end-use markets have the capacity to influence the overall demand for diatomite, resulting in price fluctuations and potential disruptions in the supply chain.

Market Segmentation

Global Diatomite Market is segmented based on source, application, and region. Based on source, the market is further bifurcated into fresh water diatomite and saltwater diatomite. Based on application, the market is further segmented into filter media, cement additive, filler, absorbent, insecticides, and others. Based on region, the market is further divided into North America, Europe, Asia Pacific, South America, Middle East & Africa.

Market Players

Imerys S.A., Calgon Carbon Corporation, Showa Chemical Industry Co., Diatomit CJSC, Dicalite Management Group, Inc., Jilin Yuan Tong Mineral Co., Ltd. Qingdao Best Diatomite Co. Ltd., , EP Minerals, U.S. SILICA, Shenzhou Xinglong Products of Diatomite, Co.,Ltd are some of the key players in the Global Diatomite Market.

Report Scope:

In this report, global Diatomite market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

Diatomite Market, By Source:

Fresh Water Diatomite

Saltwater Diatomite

Diatomite Market, By Application:

Filter Media

Cement Additive

Filler

Adsorbent

Insecticides

Others

Diatomite Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Spain

Italy

Asia-Pacific

China

India

South Korea

Japan

Singapore

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive landscape

Company Profiles: Detailed analysis of the major companies present in Global Diatomite market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

4. VOICE OF CUSTOMER

5. GLOBAL DIATOMITE MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value & Volume
- 5.2. Market Share & Forecast
 - 5.2.1. By Source (Fresh Water Diatomite and Salt Water Diatomite)
 - 5.2.2. By Application (Filter Media, Cement Additive, Filler, Absorbent, Insecticides, Others)
 - 5.2.3. By Company (2022)

- 5.2.4. By Region
- 5.3. Product Market Map
- 5.4. Pricing Analysis

6. NORTH AMERICA DIATOMITE MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value & Volume
- 6.2. Market Share & Forecast
 - 6.2.1. By Source
 - 6.2.2. By Application
 - 6.2.3. By Country
- 6.3. Pricing Analysis
- 6.4. North America: Country Analysis
 - 6.4.1. United States Diatomite Market Outlook
 - 6.4.1.1. Market Size & Forecast
 - 6.4.1.1.1. By Value & Volume
 - 6.4.1.2. Market Share & Forecast
 - 6.4.1.2.1. By Source
 - 6.4.1.2.2. By Application
 - 6.4.2. Mexico Diatomite Market Outlook
 - 6.4.2.1. Market Size & Forecast
 - 6.4.2.1.1. By Value & Volume
 - 6.4.2.2. Market Share & Forecast
 - 6.4.2.2.1. By Source
 - 6.4.2.2.2. By Application
 - 6.4.3. Canada Diatomite Market Outlook
 - 6.4.3.1. Market Size & Forecast
 - 6.4.3.1.1. By Value & Volume
 - 6.4.3.2. Market Share & Forecast
 - 6.4.3.2.1. By Source
 - 6.4.3.2.2. By Application

7. EUROPE DIATOMITE MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value & Volume
- 7.2. Market Share & Forecast
 - 7.2.1. By Source

- 7.2.2. By Application
- 7.2.3. By Country
- 7.3. Pricing Analysis
- 7.4. Europe: Country Analysis
 - 7.4.1. France Diatomite Market Outlook
 - 7.4.1.1. Market Size & Forecast
 - 7.4.1.1.1. By Value & Volume
 - 7.4.1.2. Market Share & Forecast
 - 7.4.1.2.1. By Source
 - 7.4.1.2.2. By Application
 - 7.4.2. Germany Diatomite Market Outlook
 - 7.4.2.1. Market Size & Forecast
 - 7.4.2.1.1. By Value & Volume
 - 7.4.2.2. Market Share & Forecast
 - 7.4.2.2.1. By Source
 - 7.4.2.2.2. By Application
 - 7.4.3. United Kingdom Diatomite Market Outlook
 - 7.4.3.1. Market Size & Forecast
 - 7.4.3.1.1. By Value & Volume
 - 7.4.3.2. Market Share & Forecast
 - 7.4.3.2.1. By Source
 - 7.4.3.2.2. By Application
 - 7.4.4. Italy Diatomite Market Outlook
 - 7.4.4.1. Market Size & Forecast
 - 7.4.4.1.1. By Value & Volume
 - 7.4.4.2. Market Share & Forecast
 - 7.4.4.2.1. By Source
 - 7.4.4.2.2. By Application
 - 7.4.5. Spain Diatomite Market Outlook
 - 7.4.5.1. Market Size & Forecast
 - 7.4.5.1.1. By Value & Volume
 - 7.4.5.2. Market Share & Forecast
 - 7.4.5.2.1. By Source
 - 7.4.5.2.2. By Application

8. ASIA-PACIFIC DIATOMITE MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value & Volume

8.2. Market Share & Forecast

8.2.1. By Source

8.2.2. By Application

8.2.3. By Country

8.3. Pricing Analysis

8.4. Asia-Pacific: Country Analysis

8.4.1. China Diatomite Market Outlook

8.4.1.1. Market Size & Forecast

8.4.1.1.1. By Value & Volume

8.4.1.2. Market Share & Forecast

8.4.1.2.1. By Source

8.4.1.2.2. By Application

8.4.2. India Diatomite Market Outlook

8.4.2.1. Market Size & Forecast

8.4.2.1.1. By Value & Volume

8.4.2.2. Market Share & Forecast

8.4.2.2.1. By Source

8.4.2.2.2. By Application

8.4.3. South Korea Diatomite Market Outlook

8.4.3.1. Market Size & Forecast

8.4.3.1.1. By Value & Volume

8.4.3.2. Market Share & Forecast

8.4.3.2.1. By Source

8.4.3.2.2. By Application

8.4.4. Japan Diatomite Market Outlook

8.4.4.1. Market Size & Forecast

8.4.4.1.1. By Value & Volume

8.4.4.2. Market Share & Forecast

8.4.4.2.1. By Source

8.4.4.2.2. By Application

8.4.5. Australia Diatomite Market Outlook

8.4.5.1. Market Size & Forecast

8.4.5.1.1. By Value & Volume

8.4.5.2. Market Share & Forecast

8.4.5.2.1. By Source

8.4.5.2.2. By Application

9. SOUTH AMERICA DIATOMITE MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value & Volume
- 9.2. Market Share & Forecast
 - 9.2.1. By Source
 - 9.2.2. By Application
 - 9.2.3. By Country
- 9.3. Pricing Analysis
- 9.4. South America: Country Analysis
 - 9.4.1. Brazil Diatomite Market Outlook
 - 9.4.1.1. Market Size & Forecast
 - 9.4.1.1.1. By Value & Volume
 - 9.4.1.2. Market Share & Forecast
 - 9.4.1.2.1. By Source
 - 9.4.1.2.2. By Application
 - 9.4.2. Argentina Diatomite Market Outlook
 - 9.4.2.1. Market Size & Forecast
 - 9.4.2.1.1. By Value & Volume
 - 9.4.2.2. Market Share & Forecast
 - 9.4.2.2.1. By Source
 - 9.4.2.2.2. By Application
 - 9.4.3. Colombia Diatomite Market Outlook
 - 9.4.3.1. Market Size & Forecast
 - 9.4.3.1.1. By Value & Volume
 - 9.4.3.2. Market Share & Forecast
 - 9.4.3.2.1. By Source
 - 9.4.3.2.2. By Application

10. MIDDLE EAST AND AFRICA DIATOMITE MARKET OUTLOOK

- 10.1. Market Size & Forecast
 - 10.1.1. By Value & Volume
- 10.2. Market Share & Forecast
 - 10.2.1. By Source
 - 10.2.2. By Application
 - 10.2.3. By Country
- 10.3. Pricing Analysis
- 10.4. MEA: Country Analysis
 - 10.4.1. South Africa Diatomite Market Outlook
 - 10.4.1.1. Market Size & Forecast

- 10.4.1.1.1. By Value & Volume
- 10.4.1.2. Market Share & Forecast
 - 10.4.1.2.1. By Source
 - 10.4.1.2.2. By Application
- 10.4.2. Saudi Arabia Diatomite Market Outlook
 - 10.4.2.1. Market Size & Forecast
 - 10.4.2.1.1. By Value & Volume
 - 10.4.2.2. Market Share & Forecast
 - 10.4.2.2.1. By Source
 - 10.4.2.2.2. By Application
- 10.4.3. UAE Diatomite Market Outlook
 - 10.4.3.1. Market Size & Forecast
 - 10.4.3.1.1. By Value & Volume
 - 10.4.3.2. Market Share & Forecast
 - 10.4.3.2.1. By Source
 - 10.4.3.2.2. By Application

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition
- 12.2. Product Development
- 12.3. Recent Developments

13. PORTERS FIVE FORCES ANALYSIS

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Products

14. COMPETITIVE LANDSCAPE

- 14.1. Business Overview

14.2. Company Snapshot

14.3. Products & Services

14.4. Financials (As Reported)

14.5. Recent Developments

14.5.1. Imerys S.A.

14.5.2. Calgon Carbon Corporation

14.5.3. Showa Chemical Industry Co., Ltd

14.5.4. Diatomit CJSC

14.5.5. Dicalite Management Group, Inc.

14.5.6. Jilin Yuan Tong Mineral Co., Ltd.

14.5.7. Qingdao Best diatomite co.ltd.,

14.5.8. EP Minerals

14.5.9. U.S. SILICA

14.5.10. Shenzhou Xinglong Products of Diatomite Co.,Ltd

15. STRATEGIC RECOMMENDATIONS

16. ABOUT US & DISCLAIMER

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