

# Zeolite Market Growth Driven by Water Treatment, Petrochemicals & Detergents at a CAGR of 3.2% | DataM Intelligence

*Zeolite market grows with demand in water treatment, petrochemicals, and eco-friendly detergents worldwide.*

GEORGIA, GA, UNITED STATES,  
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EINPresswire.com/ -- The global [zeolite market](#) is projected to grow at a CAGR of 3.2% for the period 2024–2031, reflecting robust demand for these versatile microporous minerals across diverse industries. Zeolites are valued for their unique crystalline structure, which enables them to function as catalysts, adsorbents, and ion-exchange agents. This underpins their widespread application in water and air purification, construction, agriculture, and chemical processing.



Zeolite Market

## Market Overview

Zeolites are aluminosilicate minerals with a characteristic three-dimensional framework of tetrahedrally coordinated silicon and aluminum atoms linked by oxygen atoms. The resulting open cavities and channels are ideal for trapping water molecules, ions, and other molecules, which gives zeolites their highly efficient adsorptive and catalytic properties.

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## Key Market Dynamics

### Drivers

- **Environmental Regulation & Pollution Control:** Increasing awareness and regulation concerning air and water pollution are driving up demand for zeolite-based adsorbents and filtration media. Their effectiveness in wastewater treatment and air purification, especially in commercial buildings and industrial facilities, is a prominent market driver.
- **Growth in Construction, Agriculture, and Chemicals:** The continued expansion of the construction sector (where zeolites are used for lightweight aggregates and additives), as well as their use in agriculture for soil conditioning and controlled nutrient release, further boost market growth particularly in Asia-Pacific.
- **Catalysts in Oil Refining and Petrochemicals:** Zeolites are indispensable as catalysts in fluid catalytic cracking and hydrocracking processes to produce fuels and value-added chemicals.

## Restraints

- **Production Complexity & Cost:** Stringent regulations on mining and the high cost of production and transportation can limit the market, making zeolites less competitive than some alternative materials.
- **Heavy Weight and Bulk:** The logistical costs associated with shipping zeolites—given their mass and volume can also inhibit adoption, especially in remote geographies.

## Segment Analysis

- **By Application:** The air purification segment dominates globally, with increased use in commercial and industrial air filters for pollutant and odor removal in offices, hospitals, hotels, and chemical processing facilities.
- **By Type and End-User:** In addition to air and water purification, major uses include construction aggregates, catalyst supports in the oil and gas sector, soil conditioners, and animal feed additives.

## Regional Insights

- **Asia-Pacific:** This region leads the global zeolites market, underpinned by rapid growth in construction, manufacturing, agriculture, and chemicals. China, India, and Southeast Asia are particularly strong markets due to extensive infrastructural development and expanding capacities in chemical refining.
- **Fastest Growth:** Asia-Pacific is also the fastest-growing region, driven by policies aimed at improving environmental quality, investments in chemical processing, and large-scale agricultural land.

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## Key Companies and Recent Developments

Prominent players include Honeywell International, Arkema, BASF, Clariant, SHOWA DENKO KK, Tosoh Corporation, W. R. Grace & Co., ZEOCEM, Zeolyst International, and Zeomex. Industry innovation is exemplified by Honeywell's collaboration in India for molecular sieve (zeolite) supplies to oxygen plants and new scientific breakthroughs such as zeolite nanotubes and ambient-temperature methane-to-methanol conversion by global research teams.

#### United States: Recent Industry Developments

- In September 2025, UOP LLC launched high-purity zeolite catalysts for refining and petrochemical applications, enhancing efficiency and yield.
- In August 2025, BASF USA expanded production of synthetic zeolites for industrial adsorption and water treatment solutions.
- In July 2025, W.R. Grace introduced zeolite-based adsorbents for gas separation and environmental applications.
- In June 2025, Chemours partnered with U.S. chemical manufacturers to supply specialty zeolites for detergents and catalysis.
- In May 2025, Zeochem Inc. expanded its zeolite production capacity to meet growing demand in environmental and industrial sectors.

#### Europe: Recent Industry Developments

- In September 2025, BASF Europe launched high-performance zeolite catalysts for sustainable chemical processing.
- In August 2025, Clariant expanded zeolite adsorbent applications in water purification and air filtration.
- In July 2025, Zeochem Europe partnered with automotive manufacturers to supply zeolite-based emission control materials.
- In June 2025, Arkema developed synthetic zeolites for detergent and chemical applications across Europe.
- In May 2025, Evonik introduced nano-zeolite additives for catalysis and energy-efficient processes.

#### Japan: Recent Industry Developments

- In September 2025, Tosoh Corporation expanded its zeolite production for petrochemical and environmental applications.
- In August 2025, Zeochem Japan launched high-performance zeolite adsorbents for gas purification and industrial processes.
- In July 2025, Mitsubishi Chemical developed nano-zeolite catalysts for chemical synthesis and energy efficiency.
- In June 2025, Nippon Shokubai advanced zeolite membranes for water treatment and chemical separation technologies.
- In May 2025, Showa Denko partnered with local industries to deploy synthetic zeolites for

environmental remediation and industrial use.

## Conclusion

Zeolites are vital to environmental sustainability, clean technology, and industrial efficiency, making them a key material in pollution abatement, sustainable agriculture, and chemical manufacturing. Ongoing research, regulatory pressure, and broad industrial adoption especially in Asia-Pacific will continue to drive steady global growth in the zeolite market through 2031.

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The [wastewater treatment services market](#) size is estimated to reach USD million by 2029, growing at a CAGR of 8% during the forecast period (2023-2029).

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